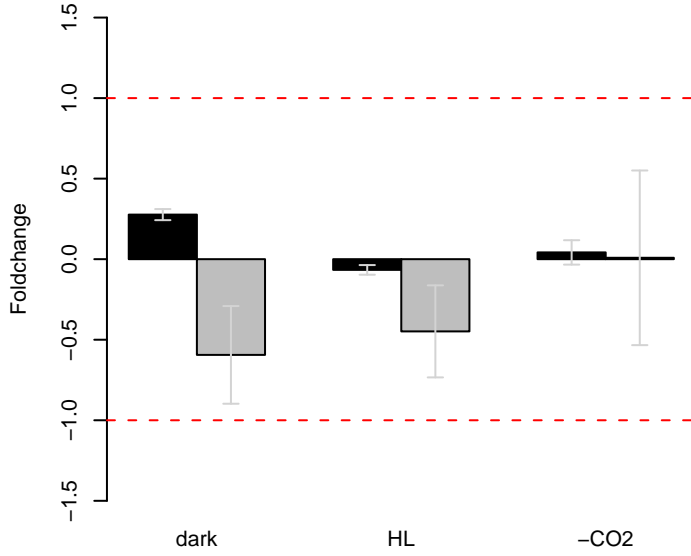
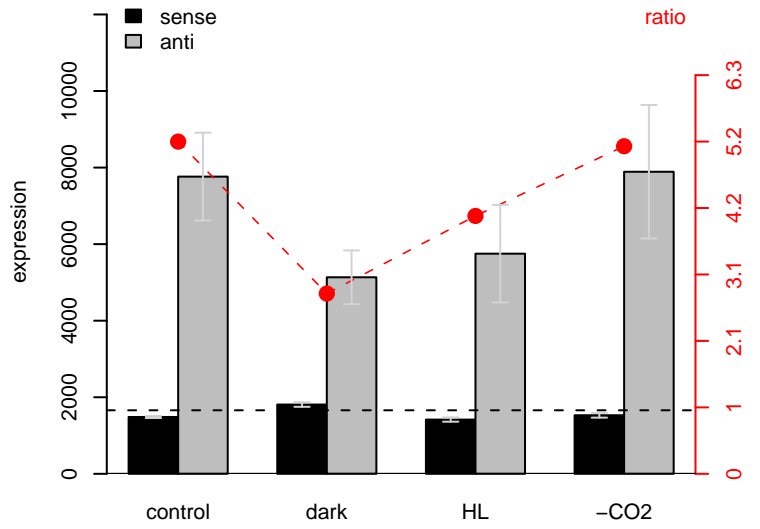
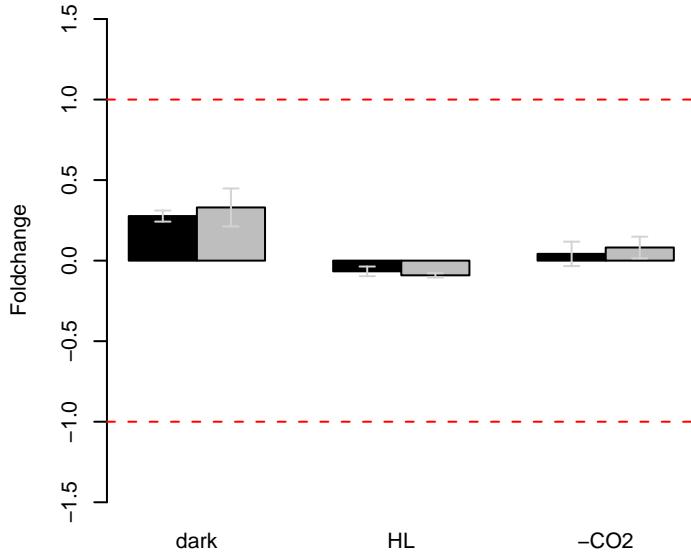
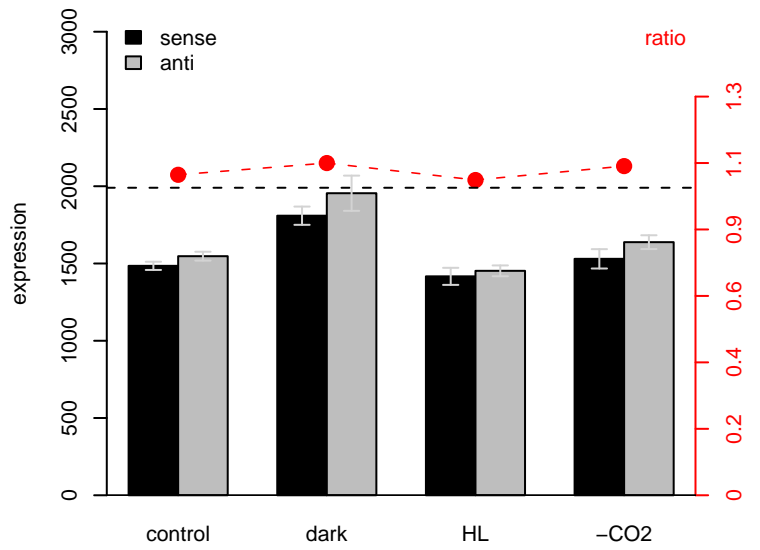
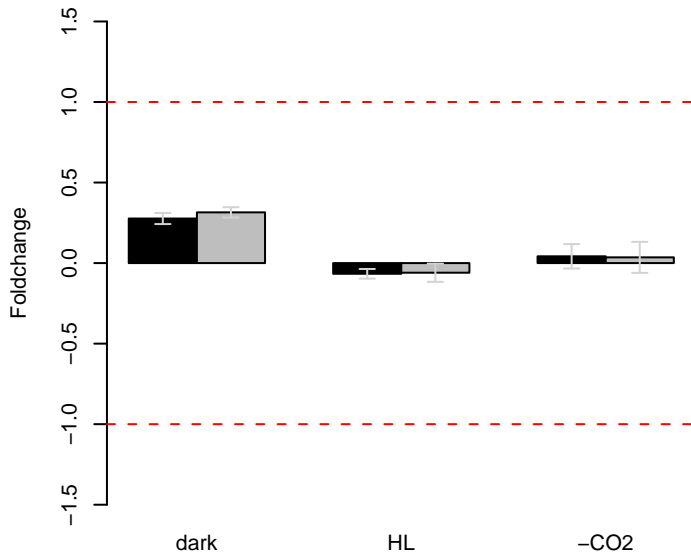
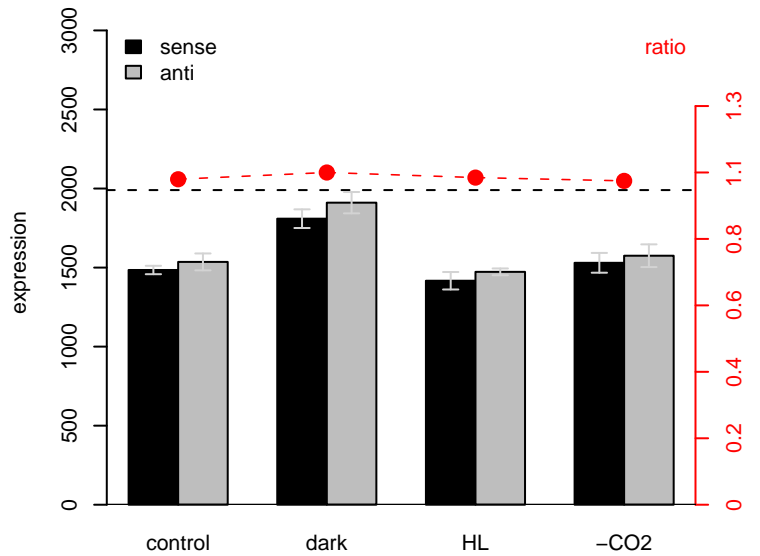
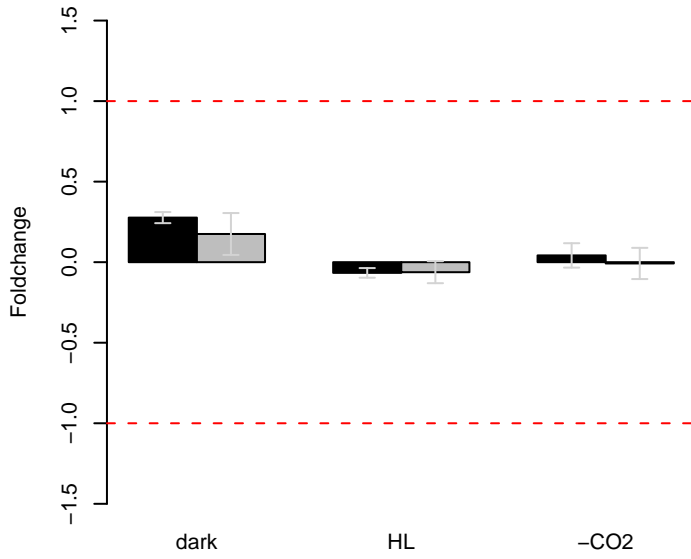
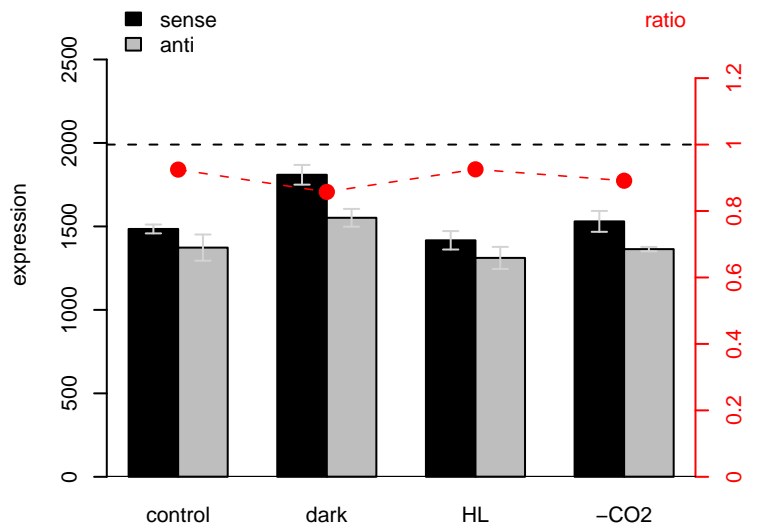
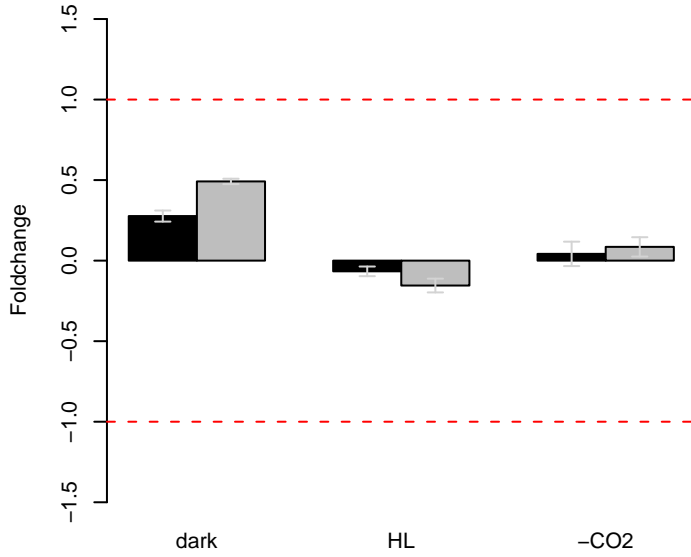
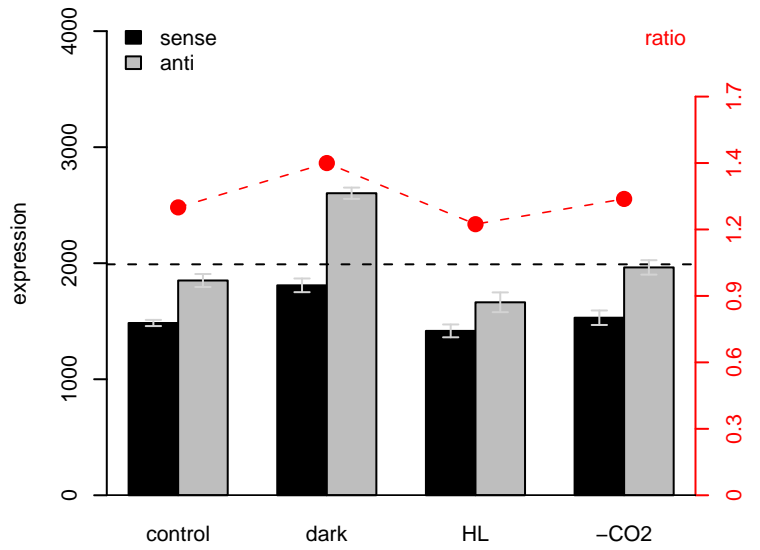
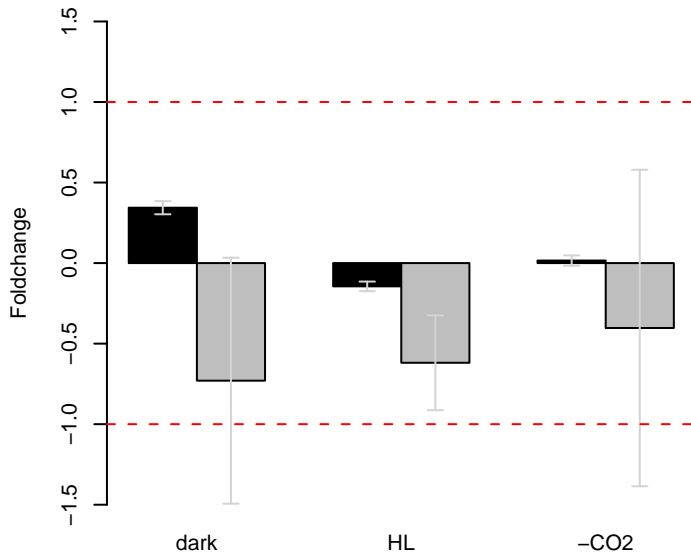
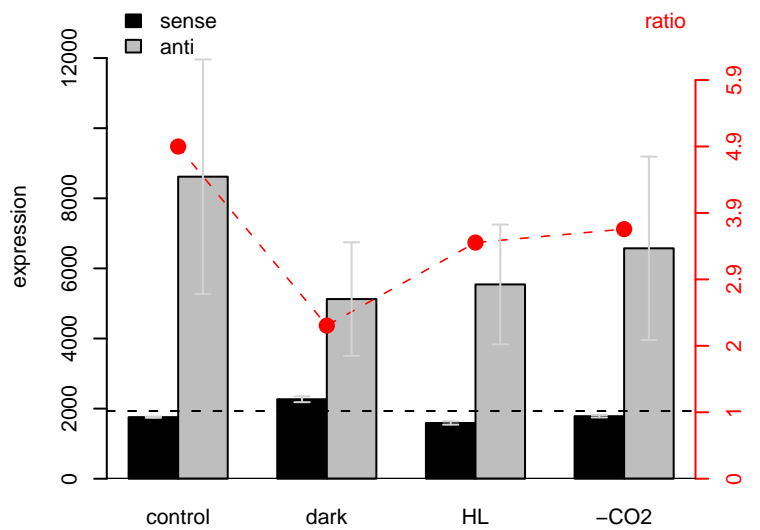
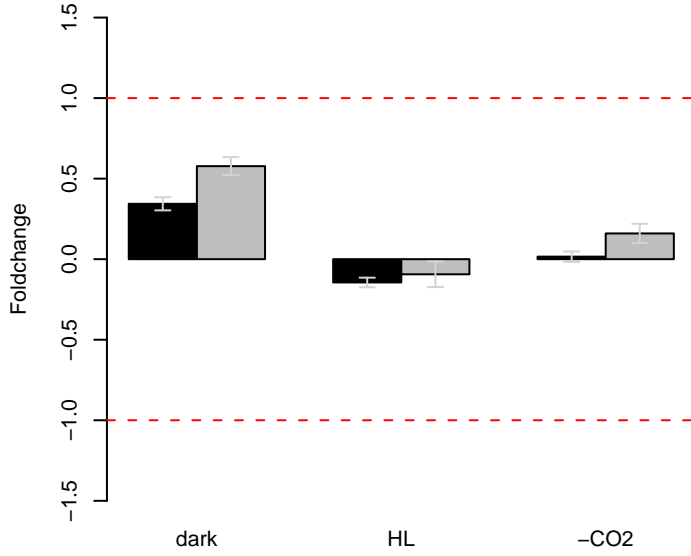
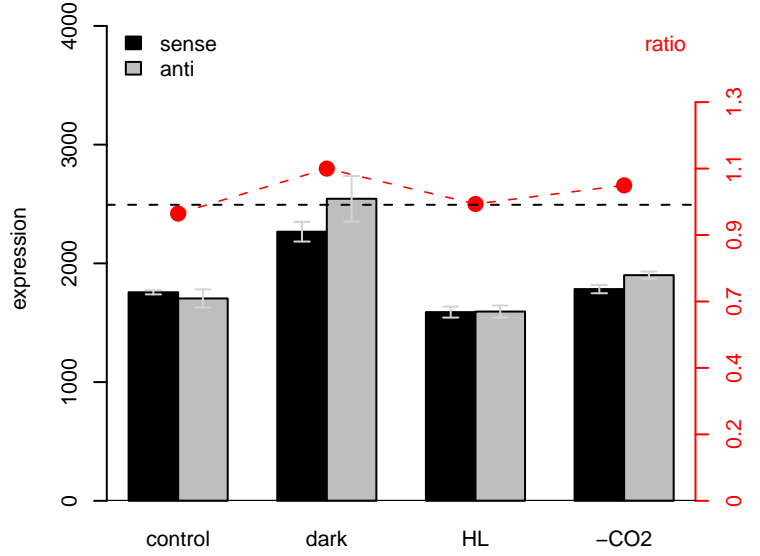
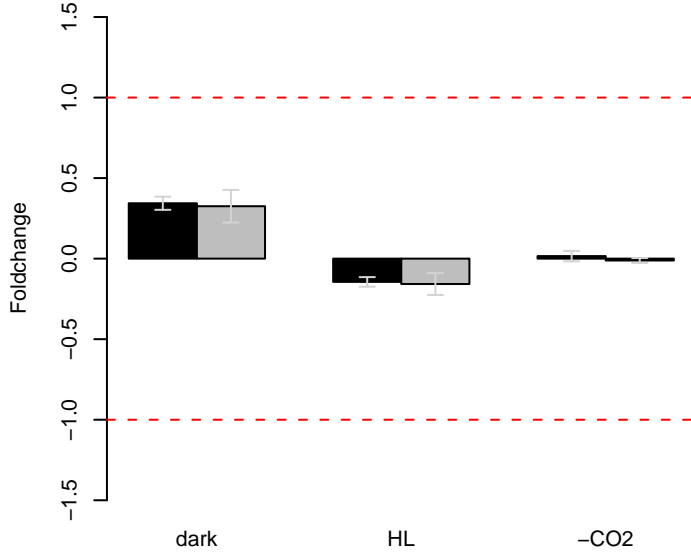
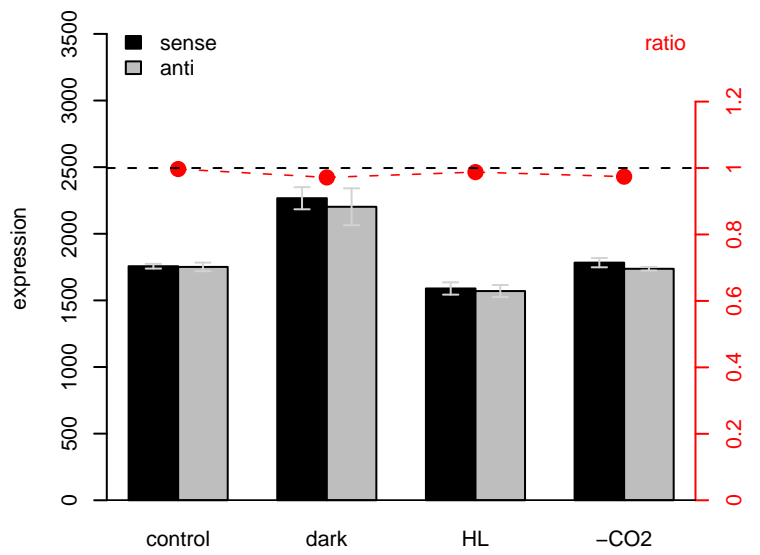
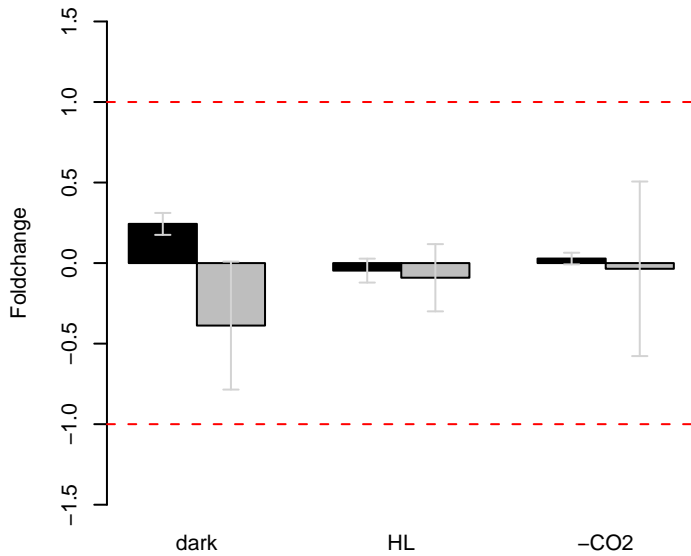
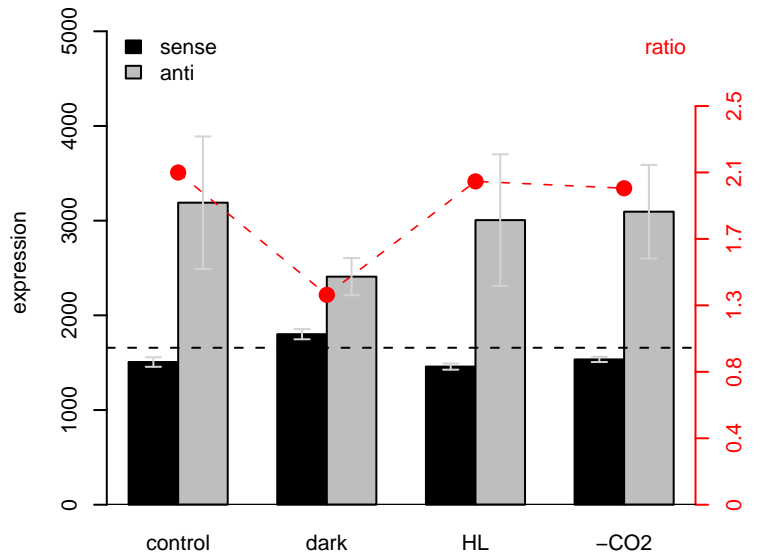
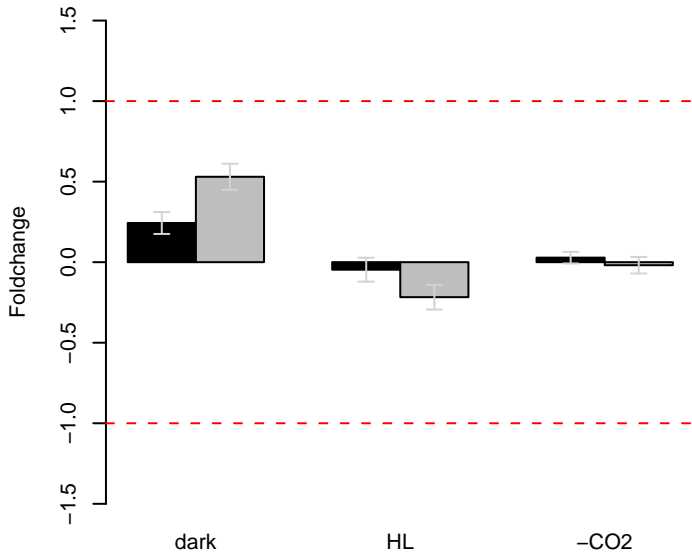
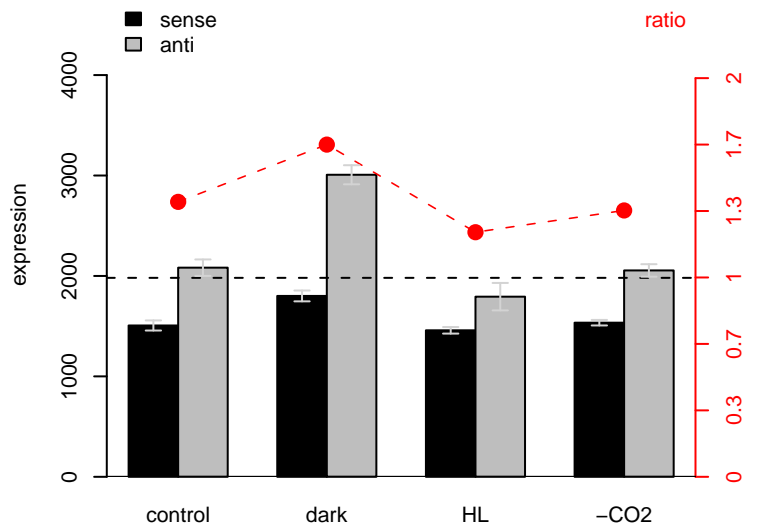
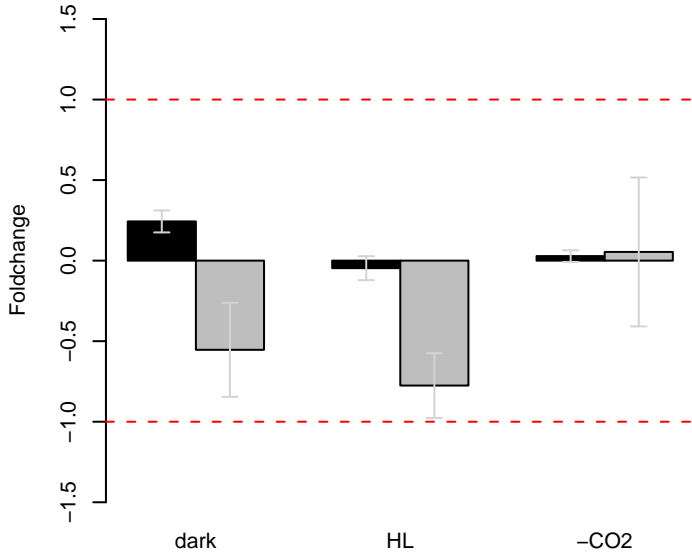
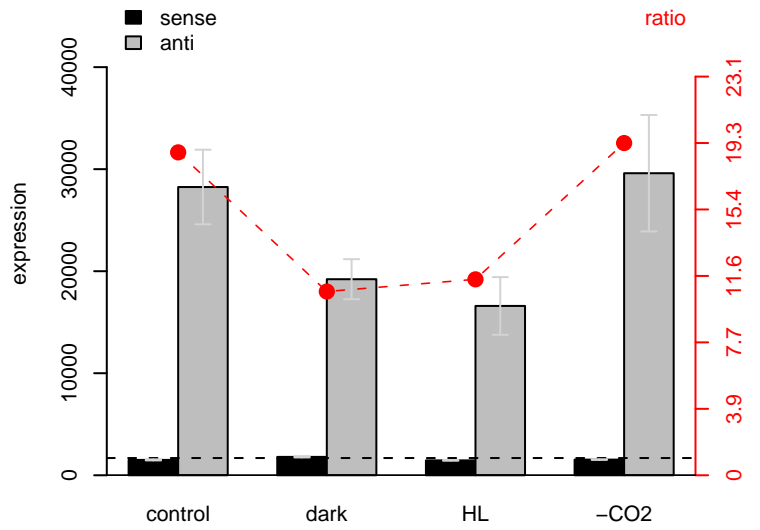
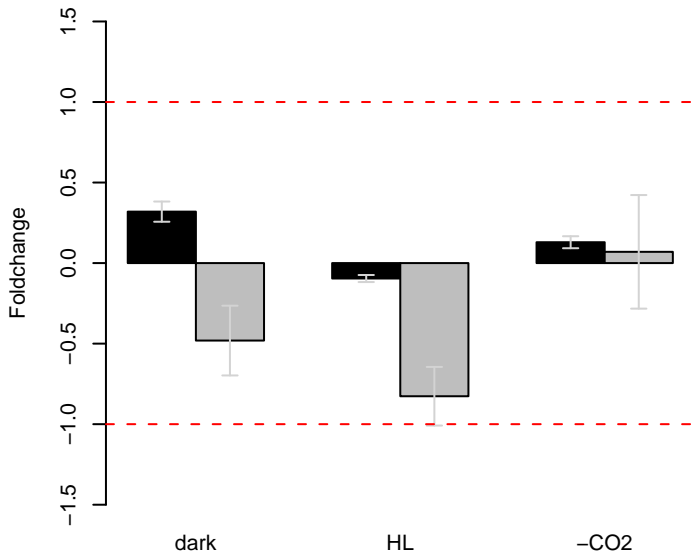
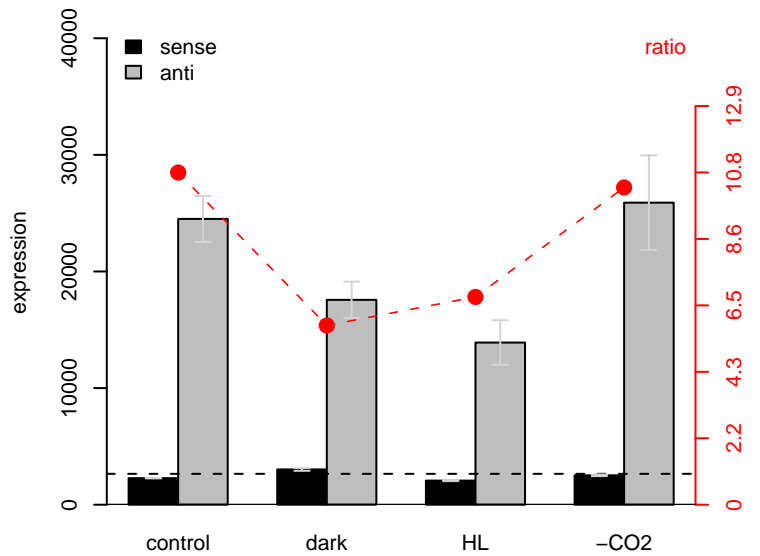
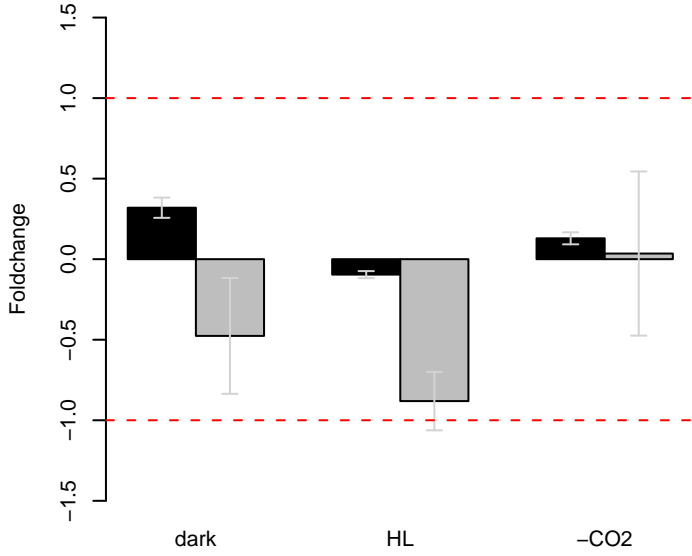
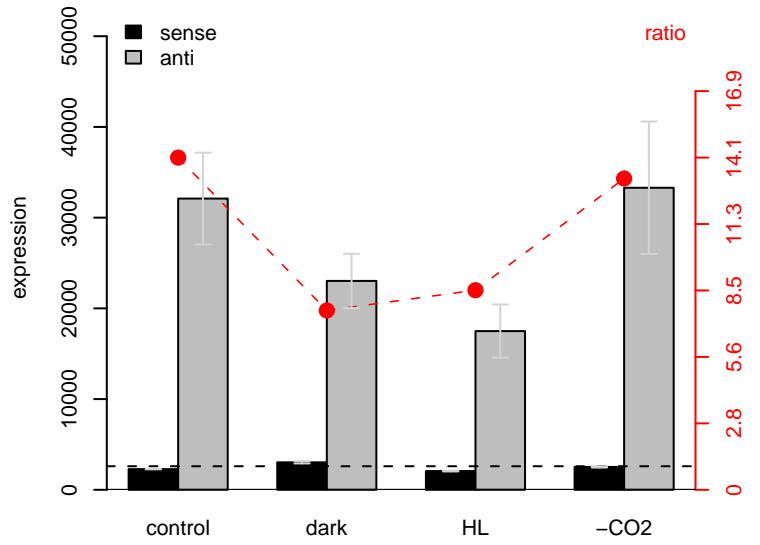
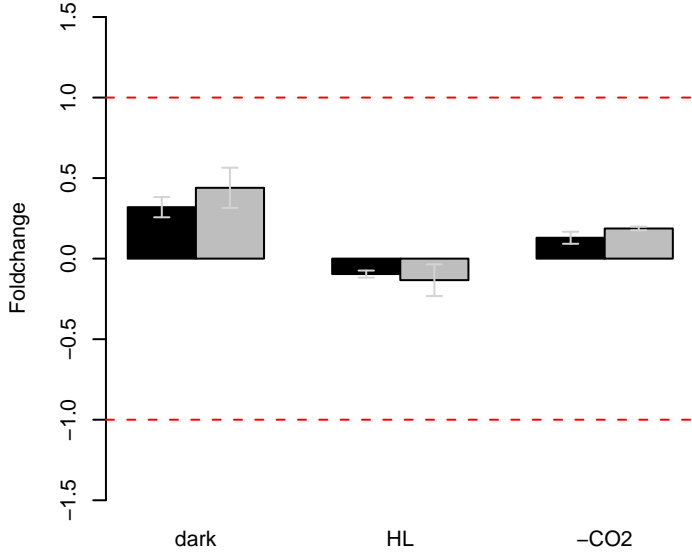
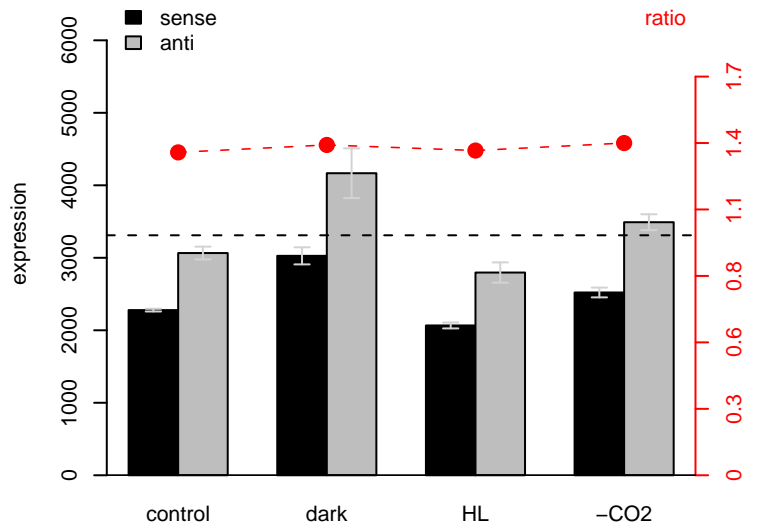
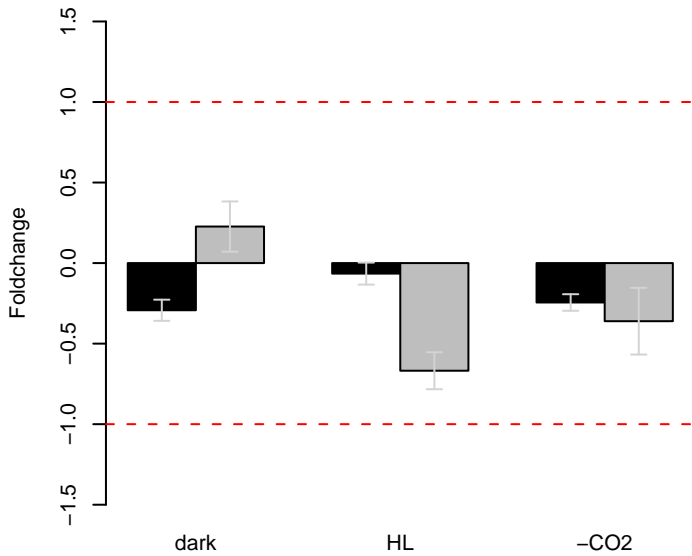
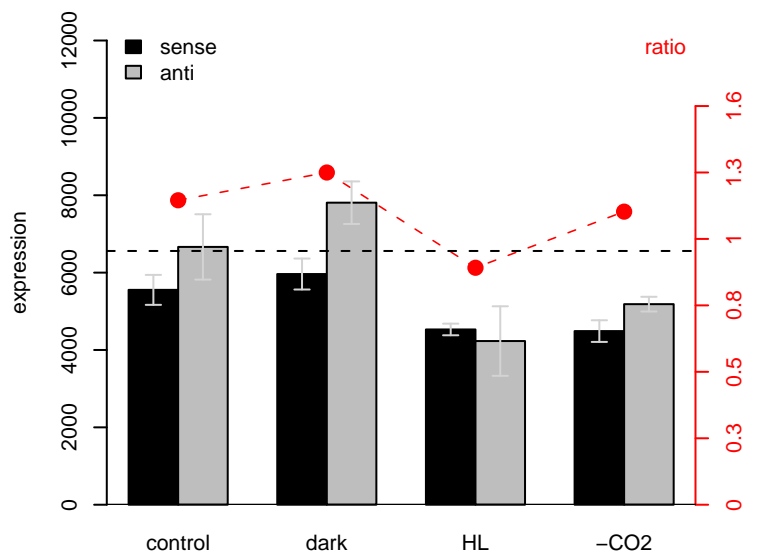


**ssl7019****pSYSYA\_37****ssl7019****pSYSYA\_37****ssl7019****pSYSYA\_37**

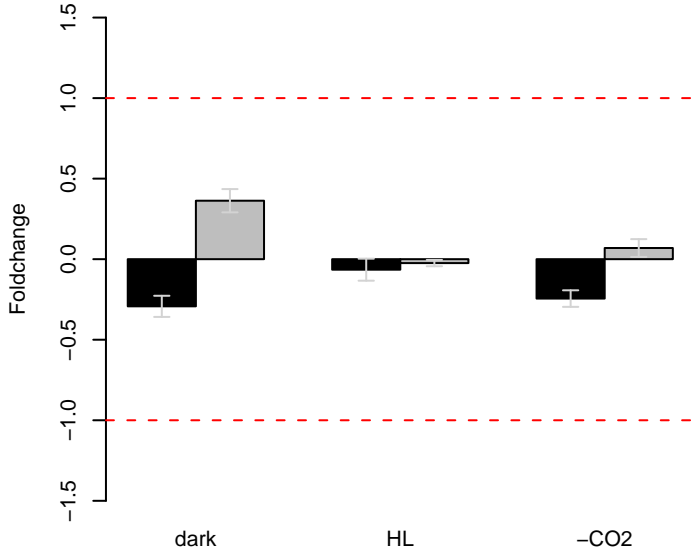
**ssl7019****pSYSYA\_37****ssl7019****pSYSYA\_37****ssl7020****pSYSYA\_38**

**ssl7020****pSYSYA\_38****ssl7020****pSYSYA\_38****ssl7021****pSYSYA\_39**

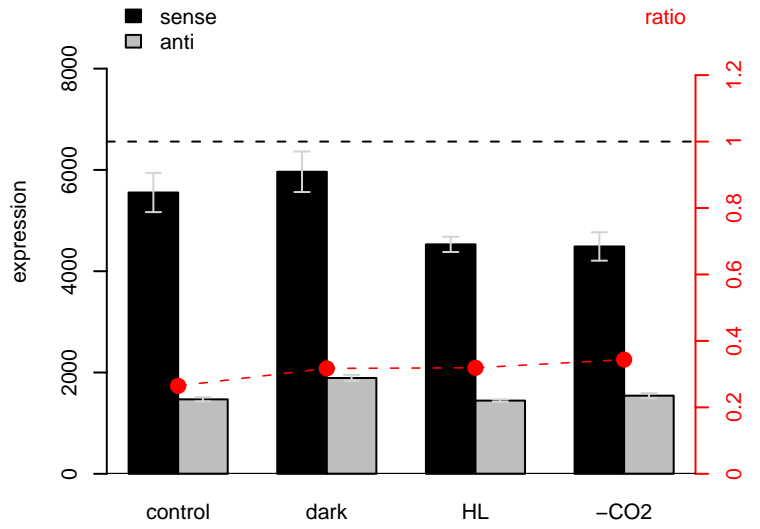
**ssl7021****pSYSA\_39****ssl7021****pSYSA\_39****ssl7022****pSYSA\_41**

**ssl7022****pSYSA\_41****ssl7022****pSYSA\_41****spoIID(sil1283)****genome\_1004**

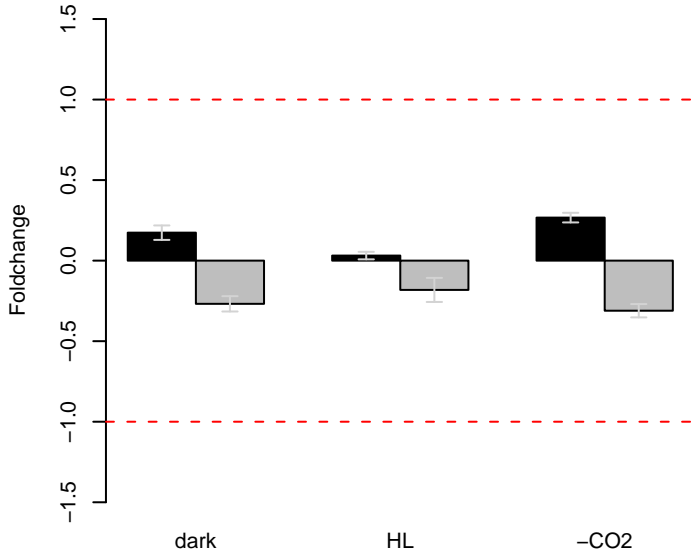
**spoII(Dsll1283)**



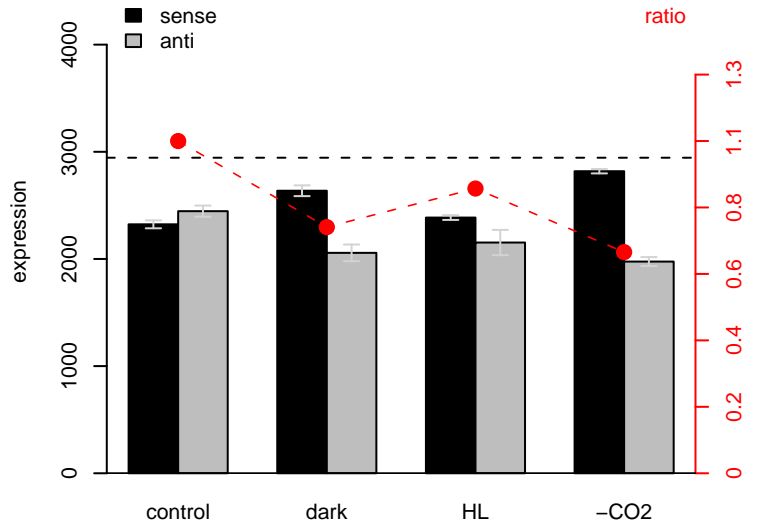
**genome\_1004**



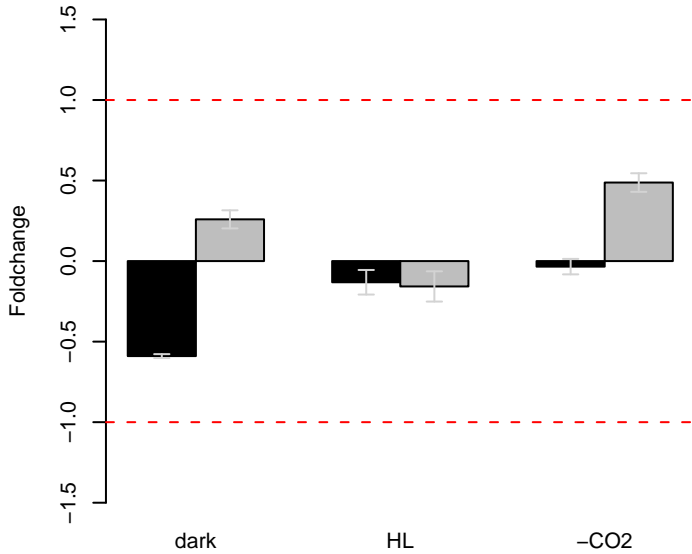
**slr1699**



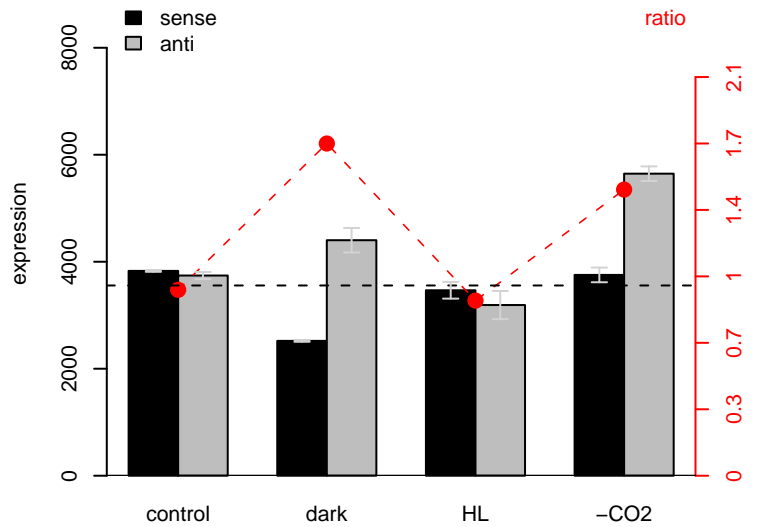
**genome\_1007**



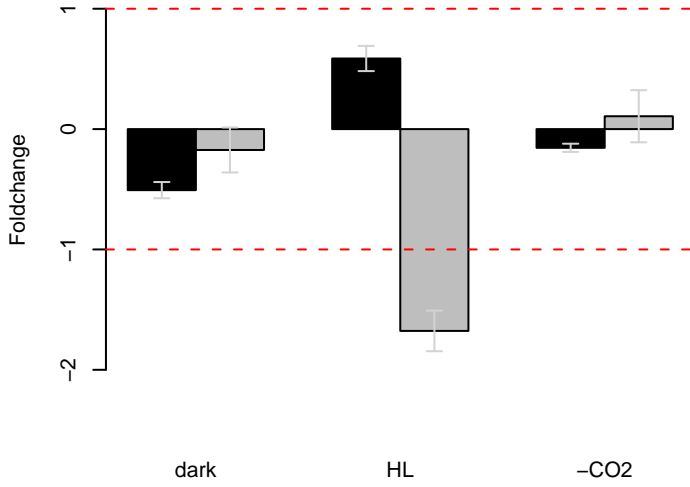
**gumB(Dsll1581)**



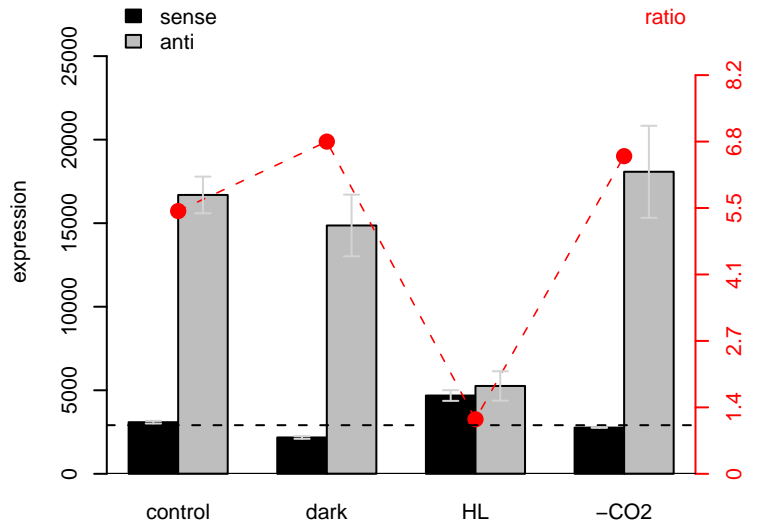
**genome\_1014**



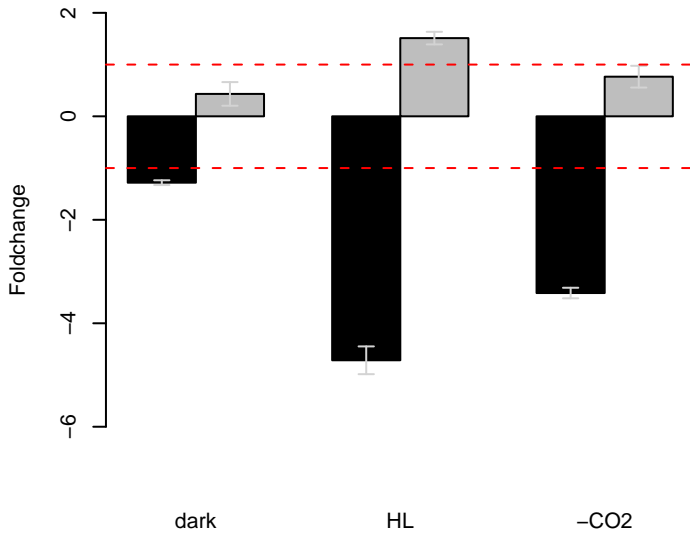
**serS(slr1703)**



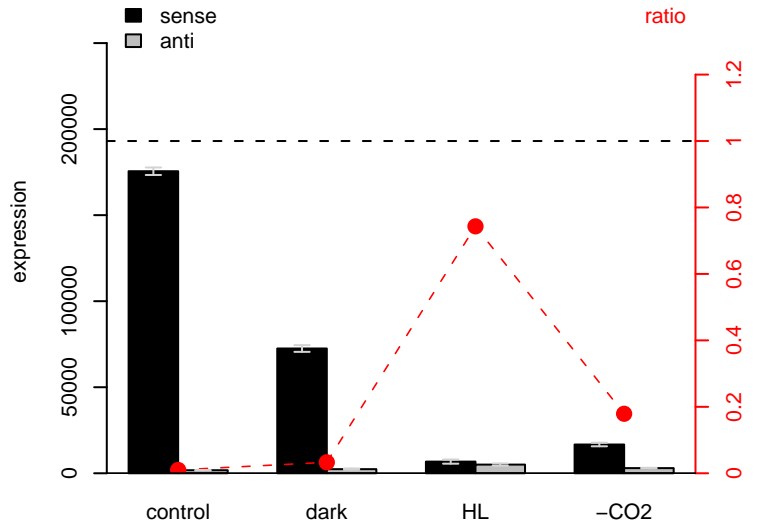
**genome\_1018**



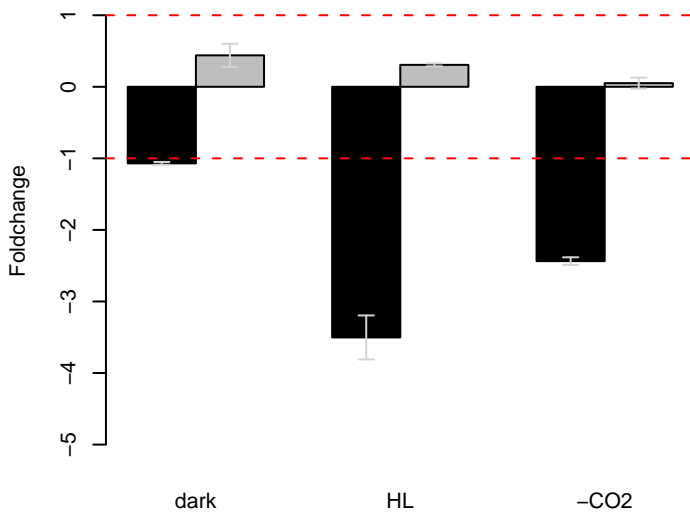
**cpcC(sll1579)**



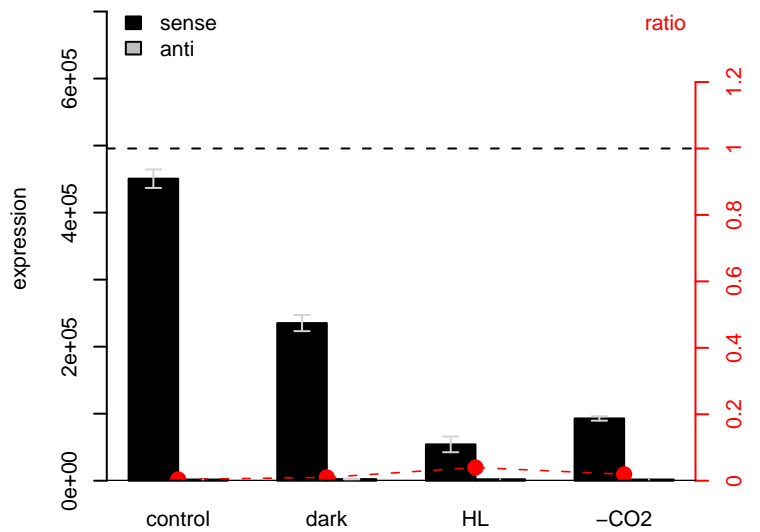
**genome\_1023**



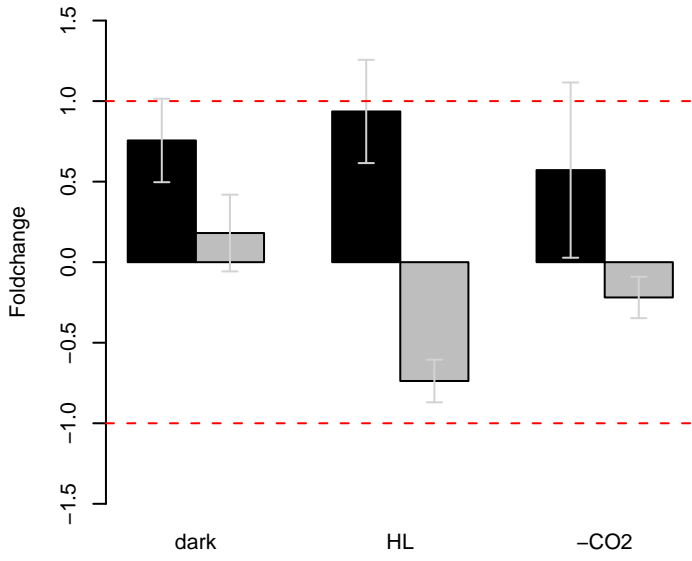
**cpcA(sll1578)**



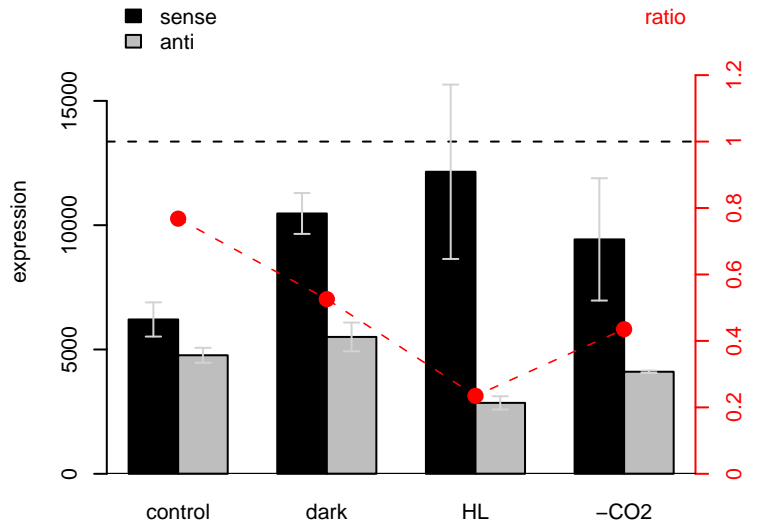
**genome\_1025**



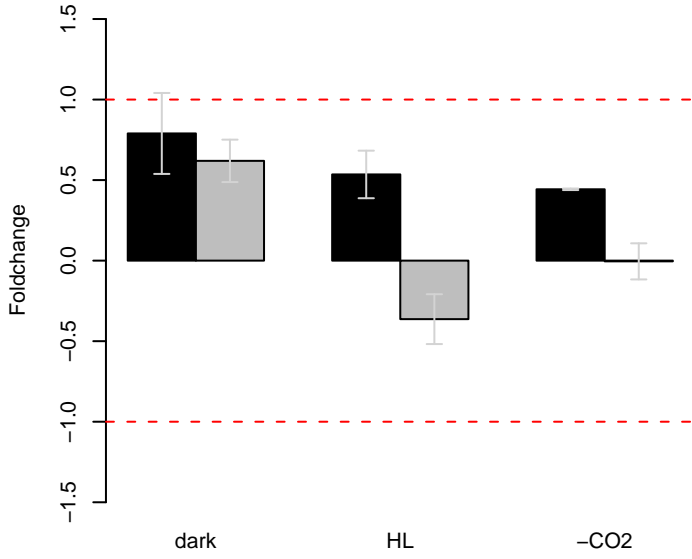
**ssr2848**



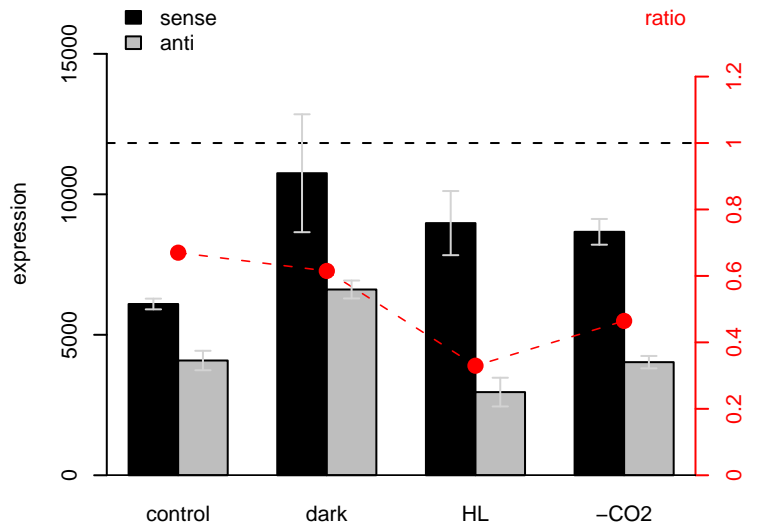
**genome\_1031**



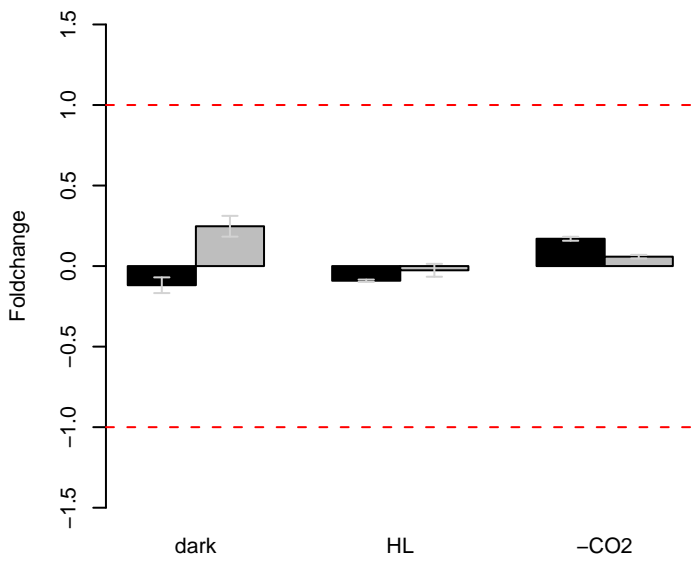
**slr1704**



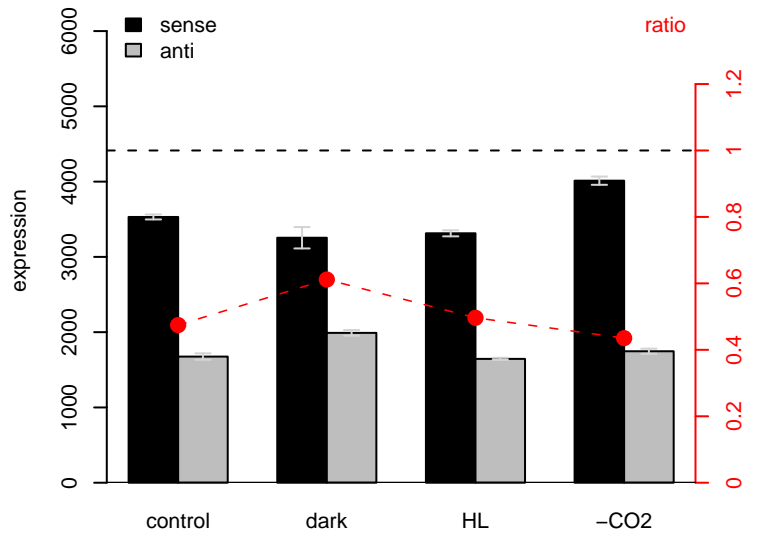
**genome\_1033**



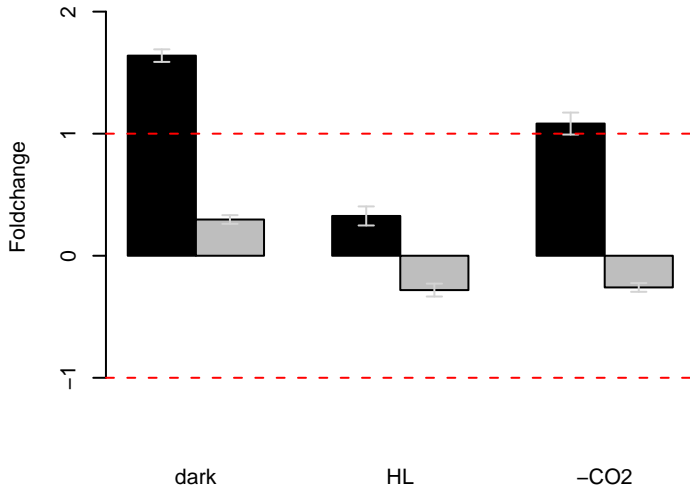
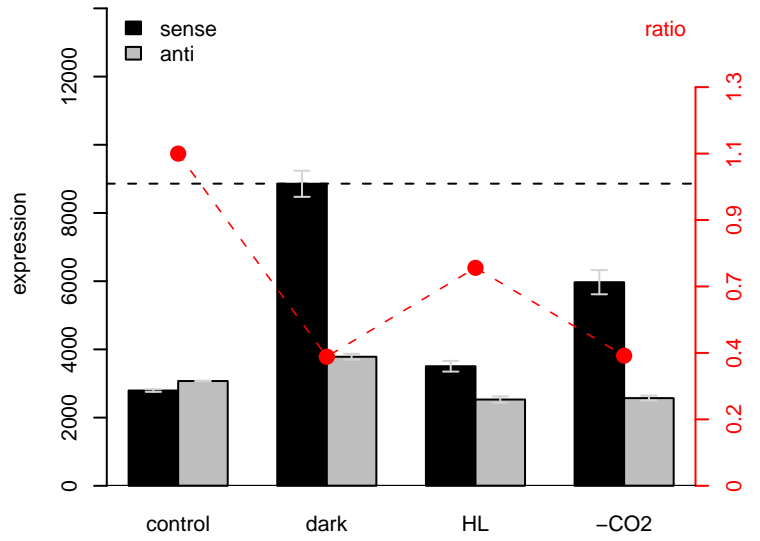
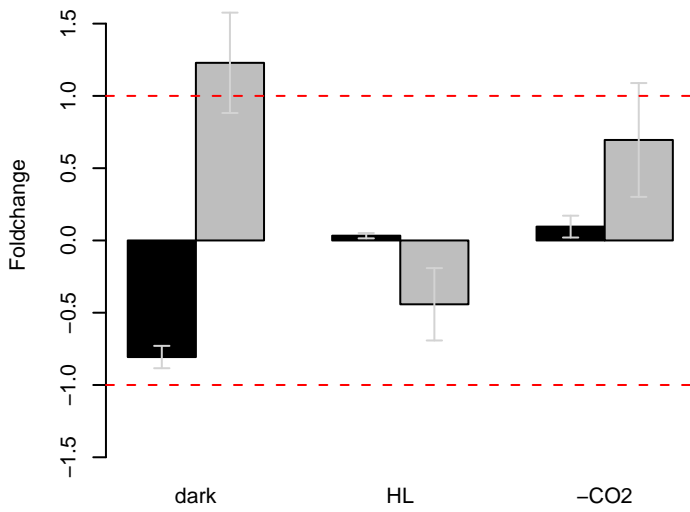
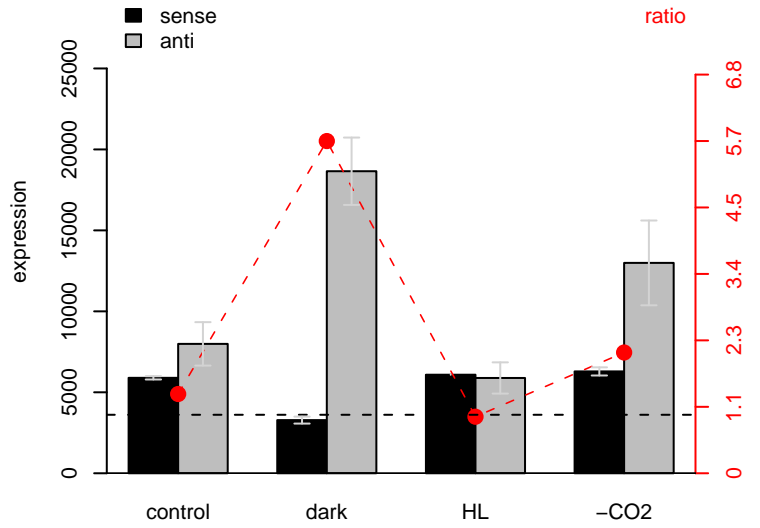
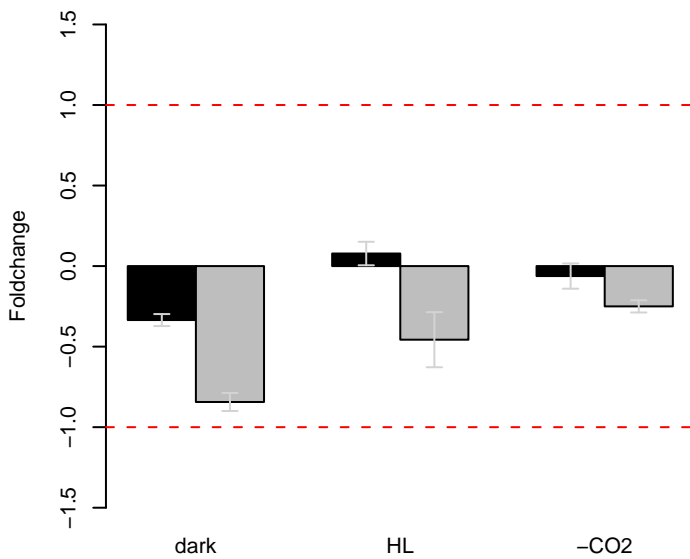
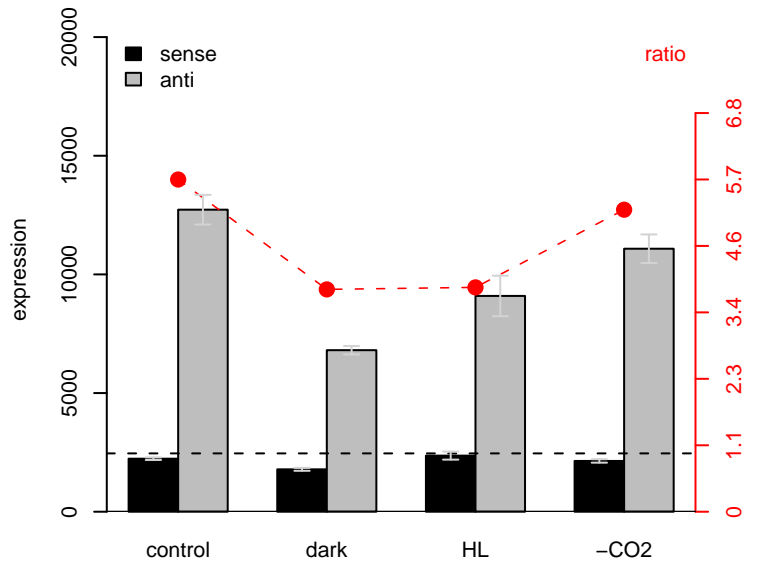
**sll1575**

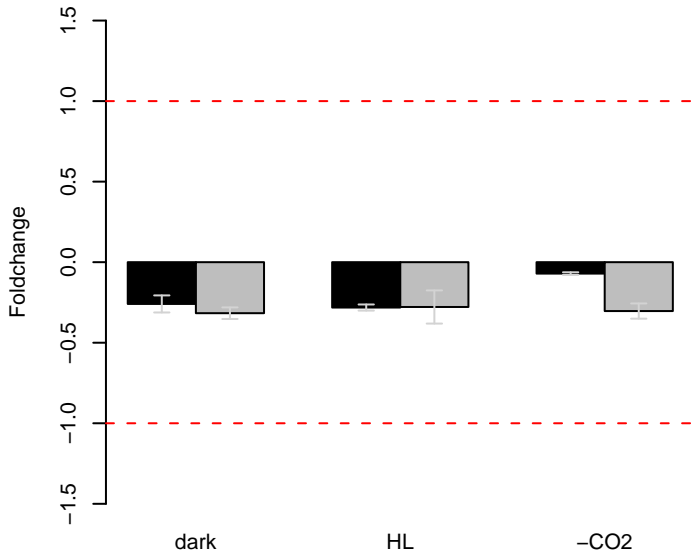
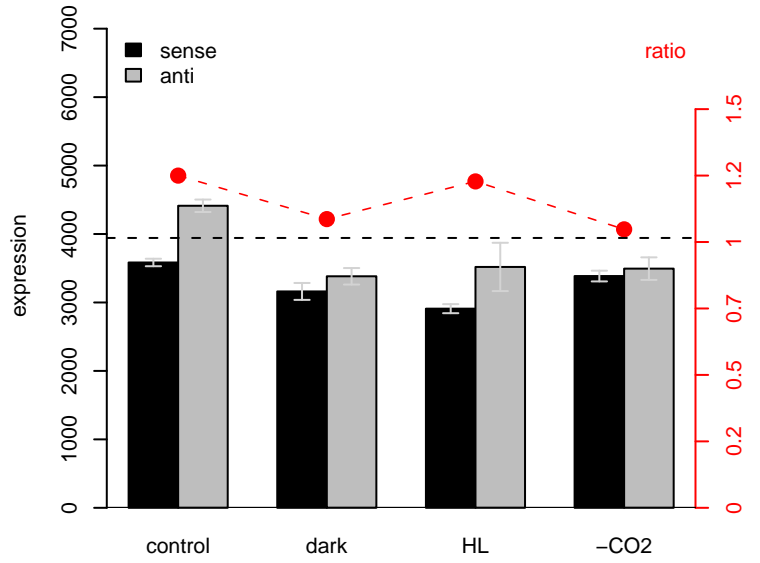
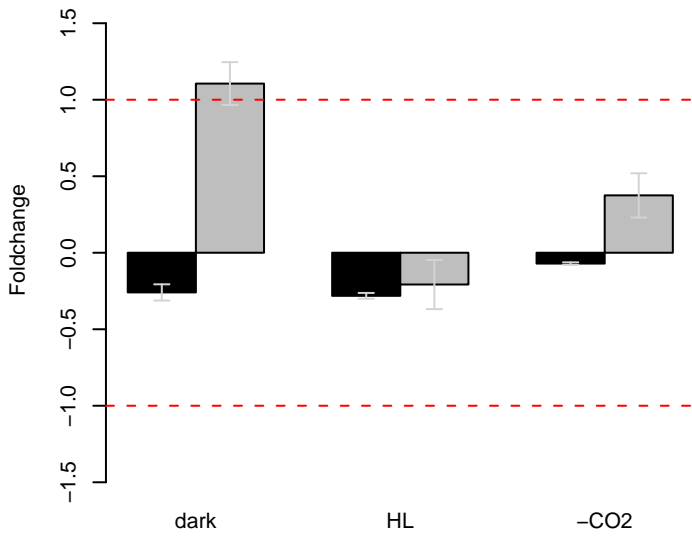
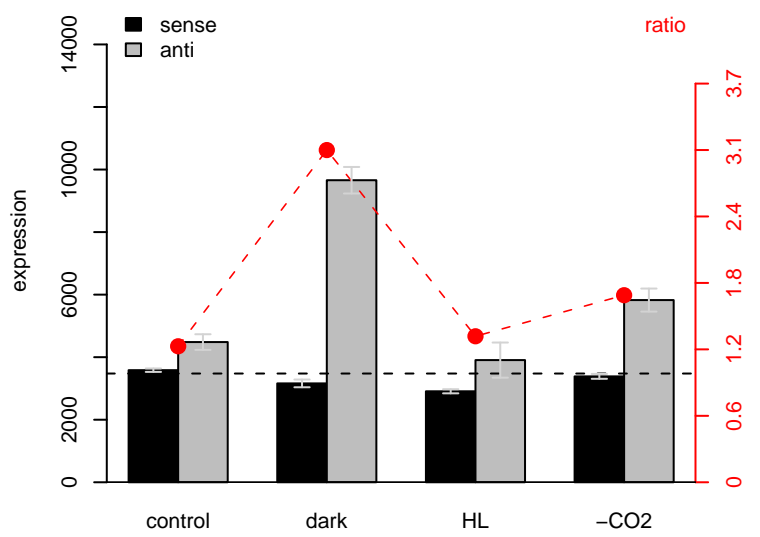
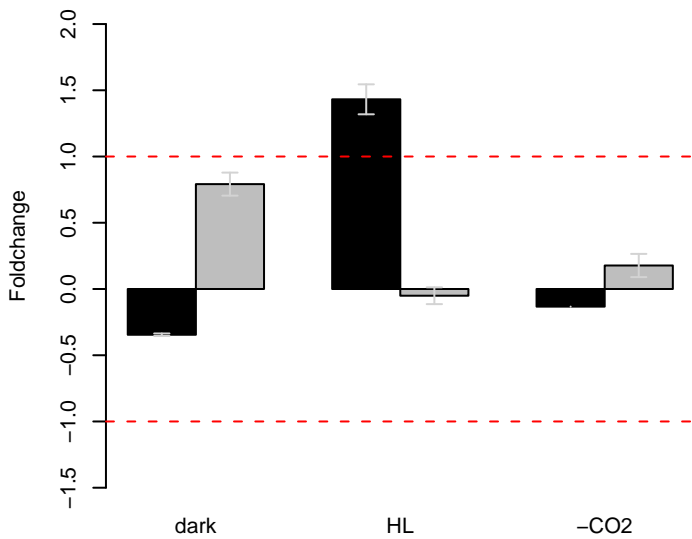
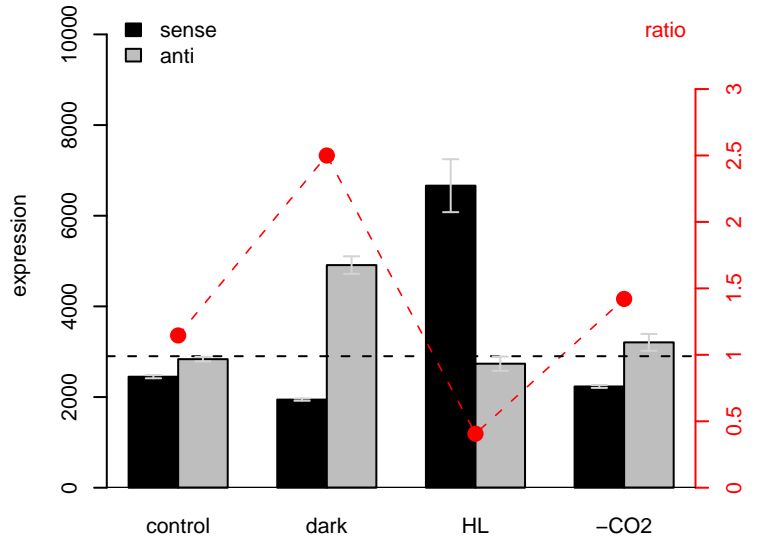


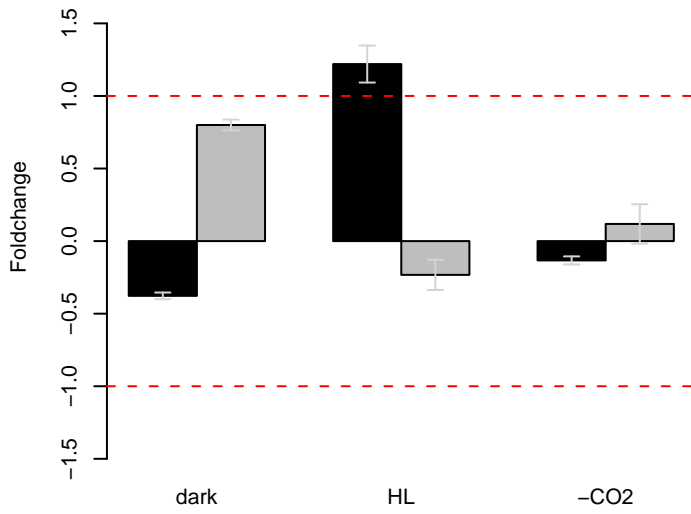
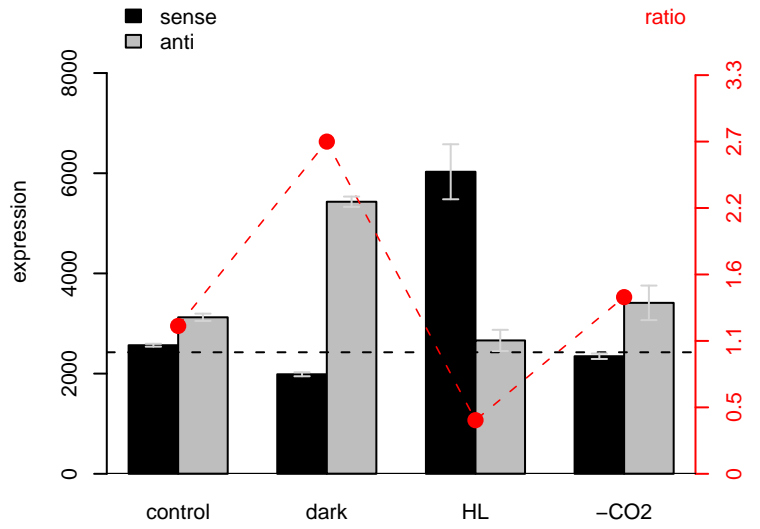
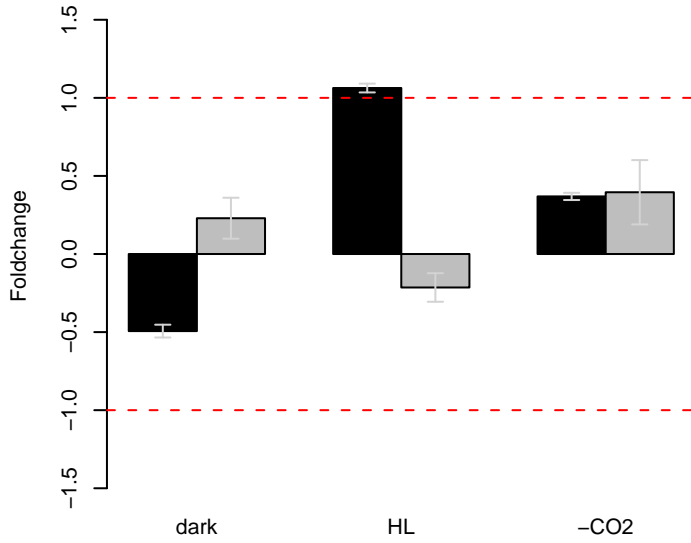
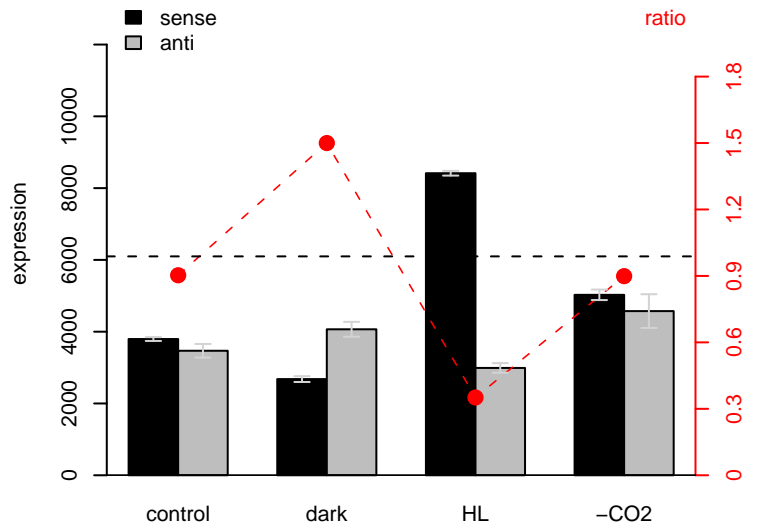
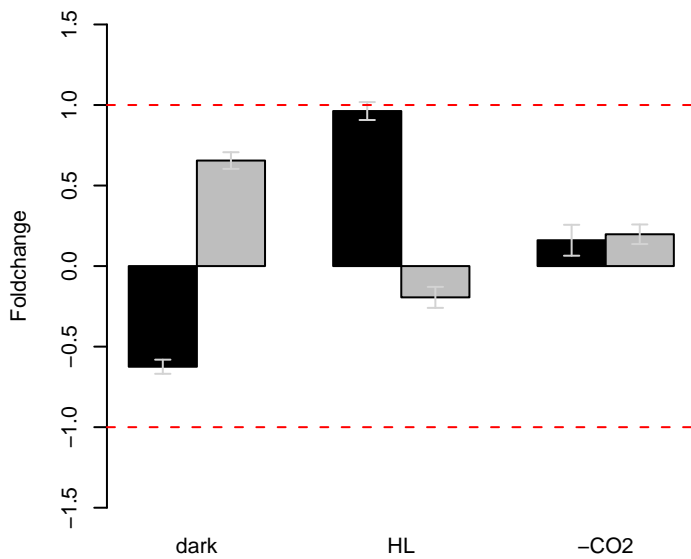
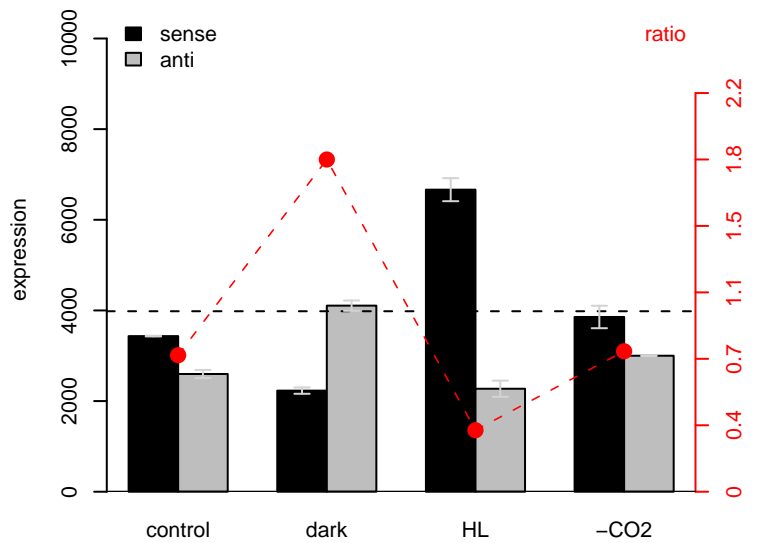
**genome\_1037**

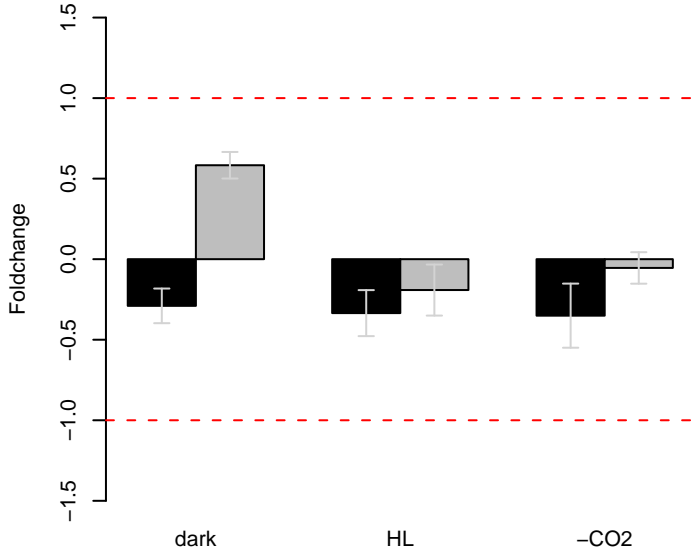
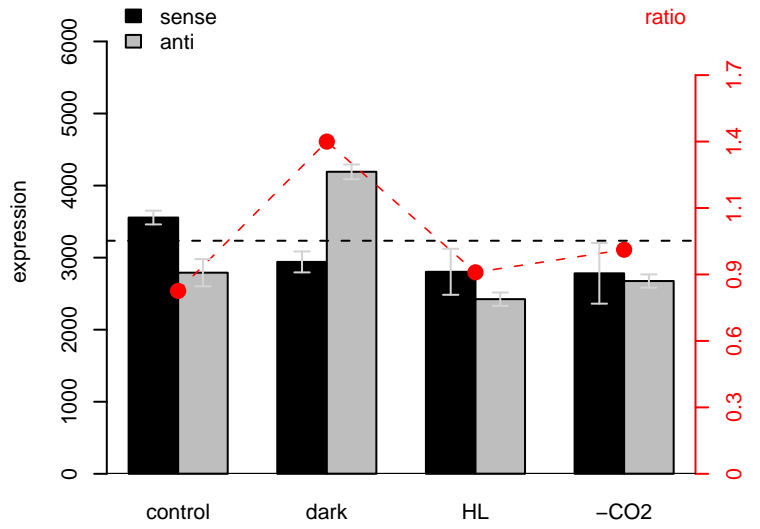
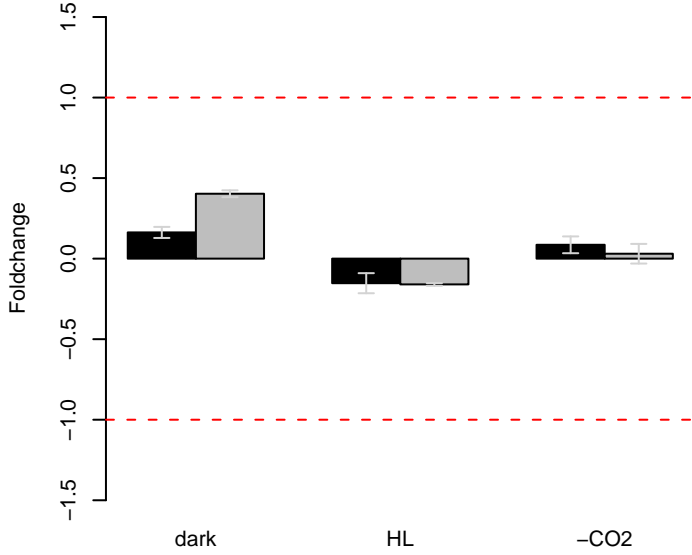
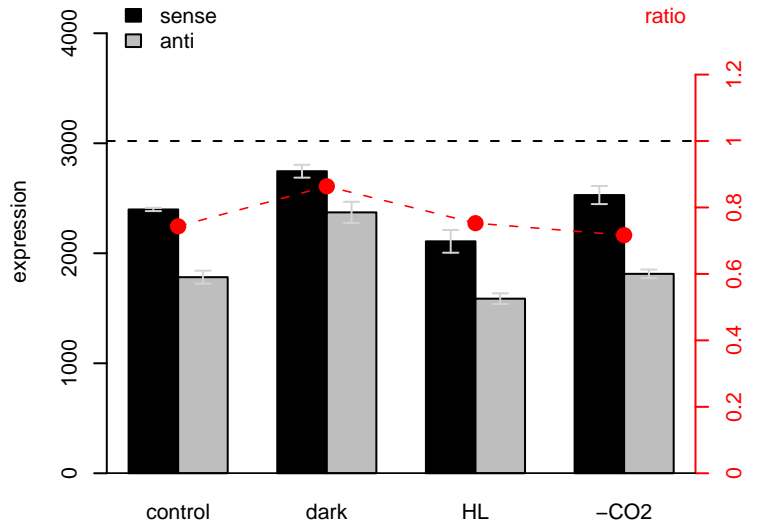
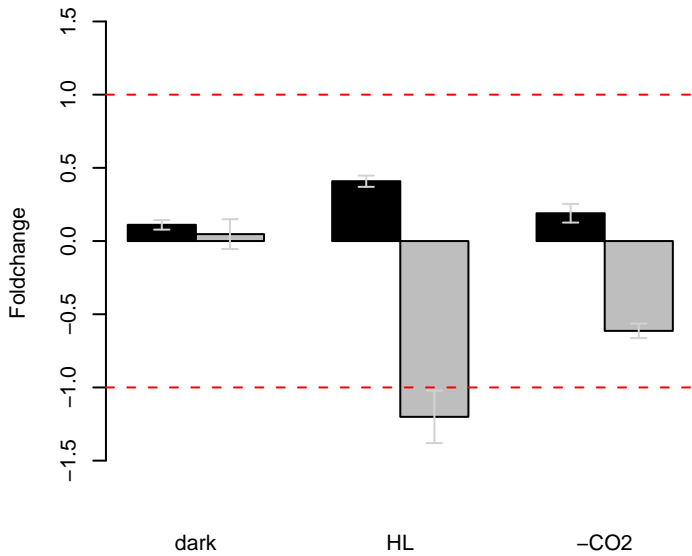
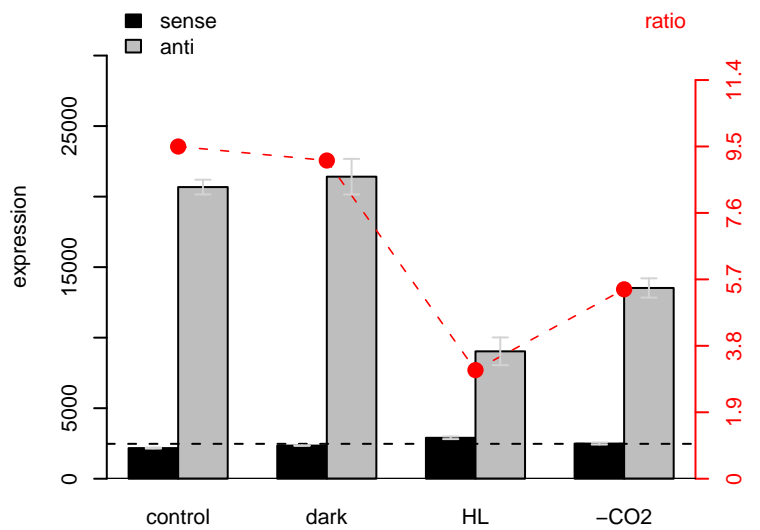




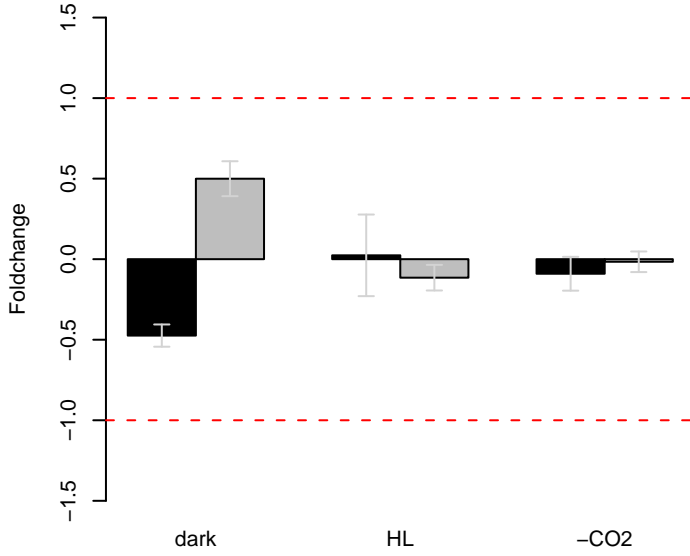
**aspA(slr1705)****genome\_1041****slr1708****genome\_1046****dnaE(sll1572)****genome\_1051**

**sll1571****genome\_1052****sll1571****genome\_1052****ndhF(slr2009)****genome\_1066**

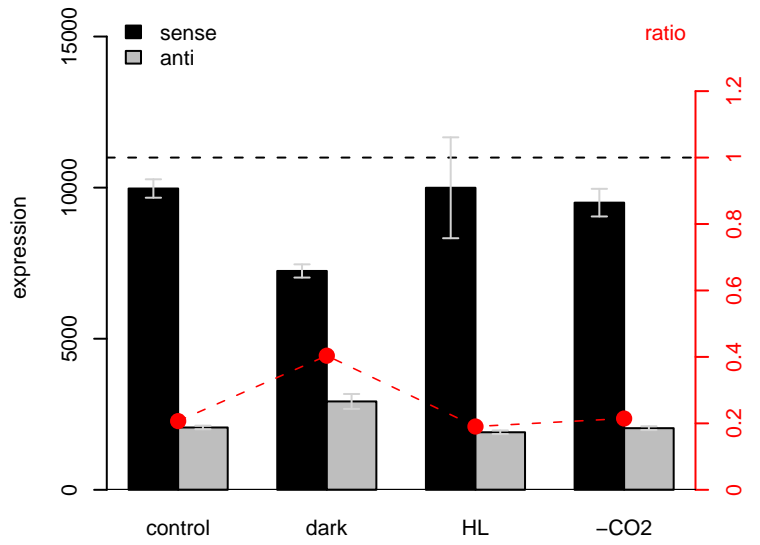
**slr2011****genome\_1071****slr2017****genome\_1080****slr2018****genome\_1082**

**sll1921****genome\_1085****sll1920****genome\_1087****gmk(slr1123)****genome\_108**

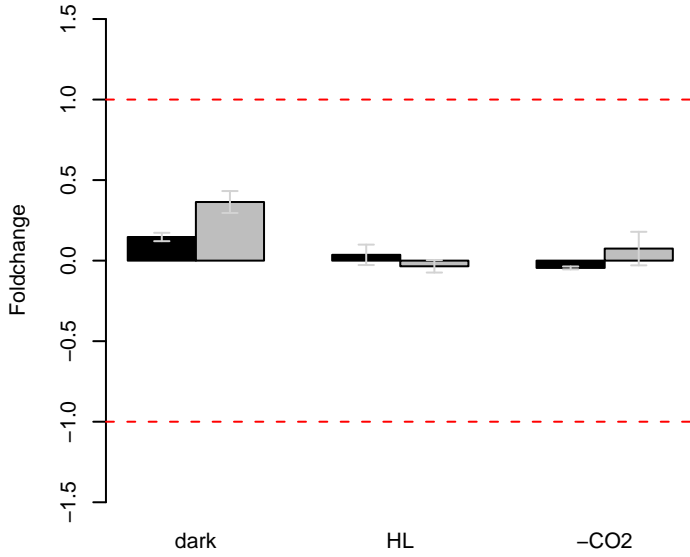
**slr2025**



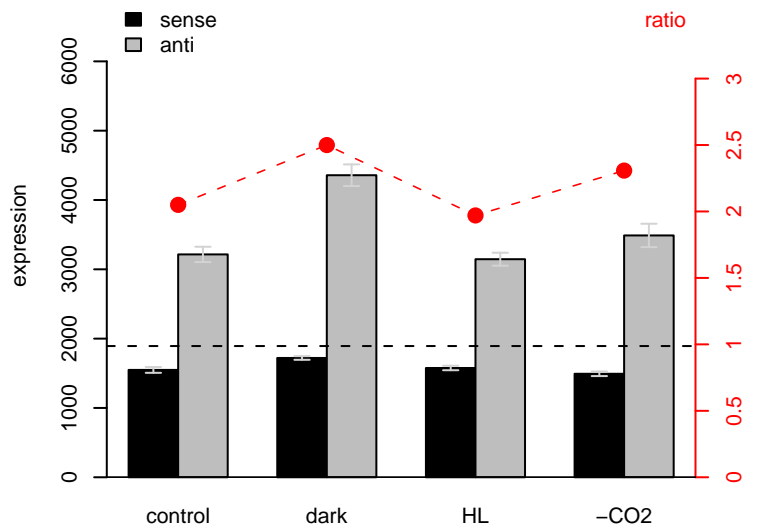
**genome\_1091**



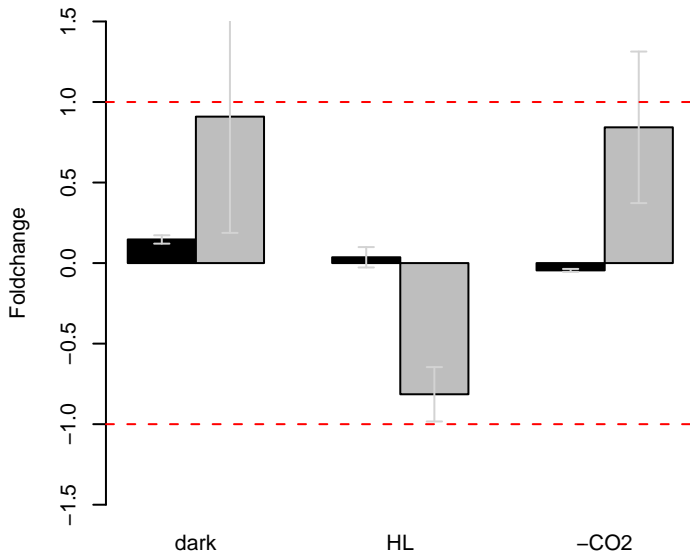
**hemN(sll1917)**



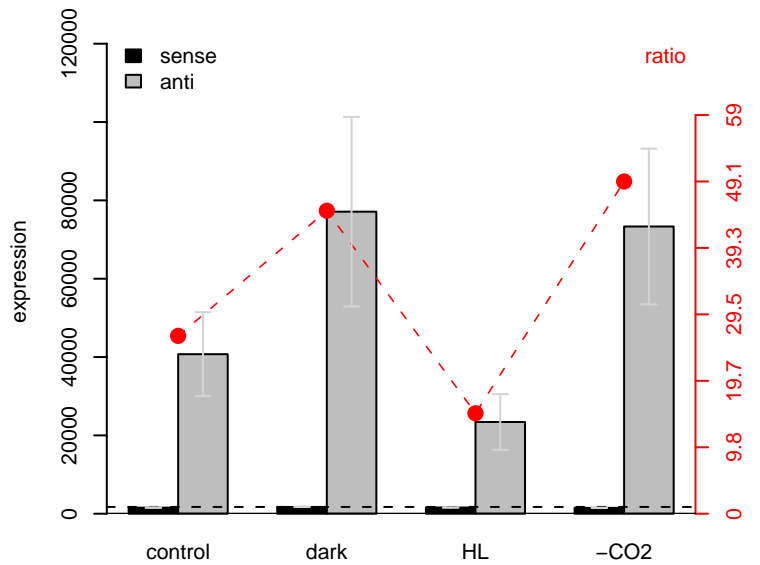
**genome\_1094**

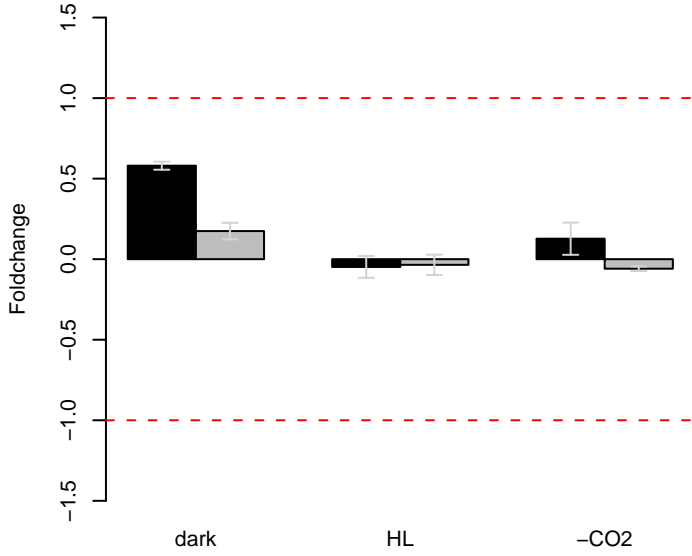
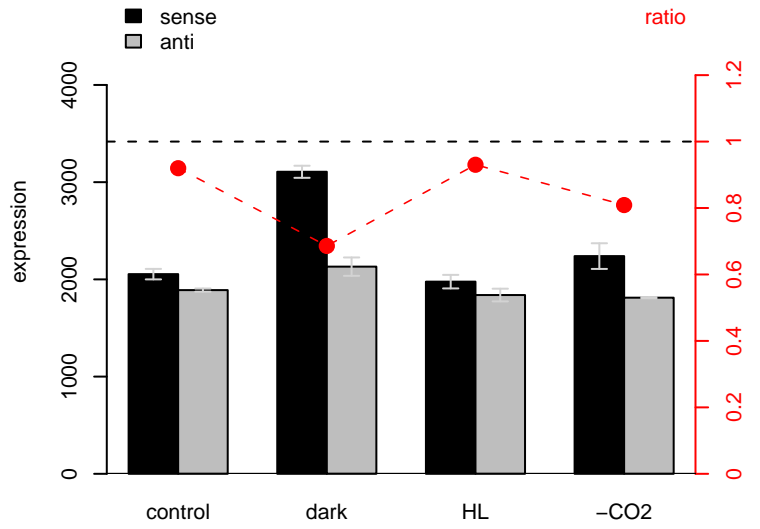
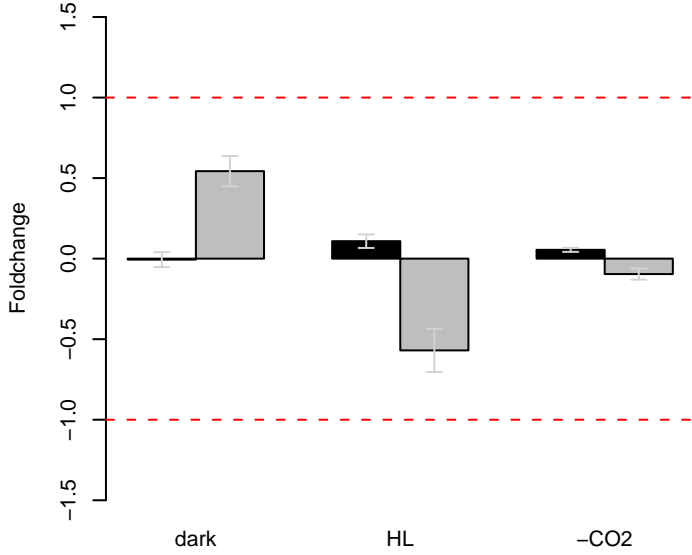
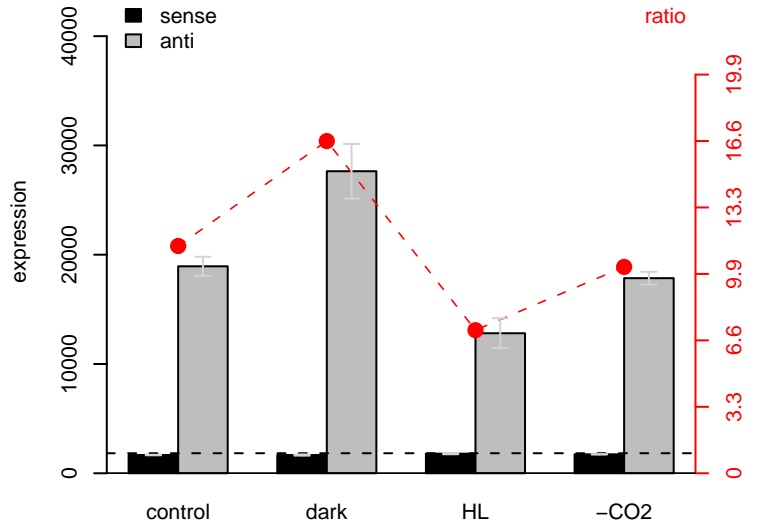
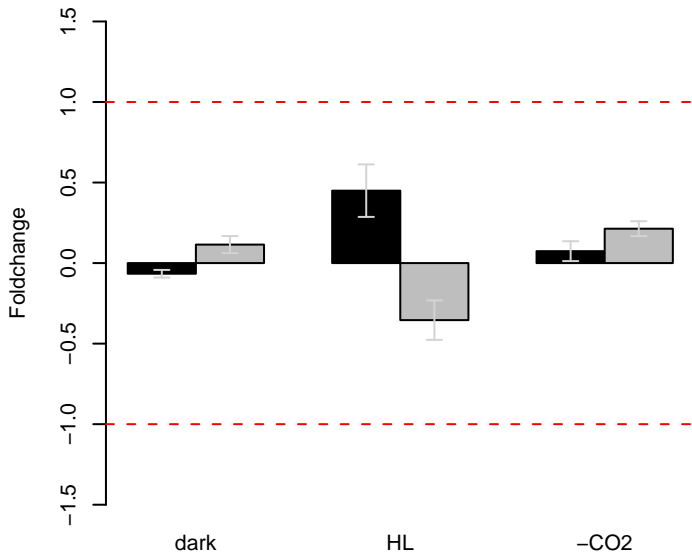
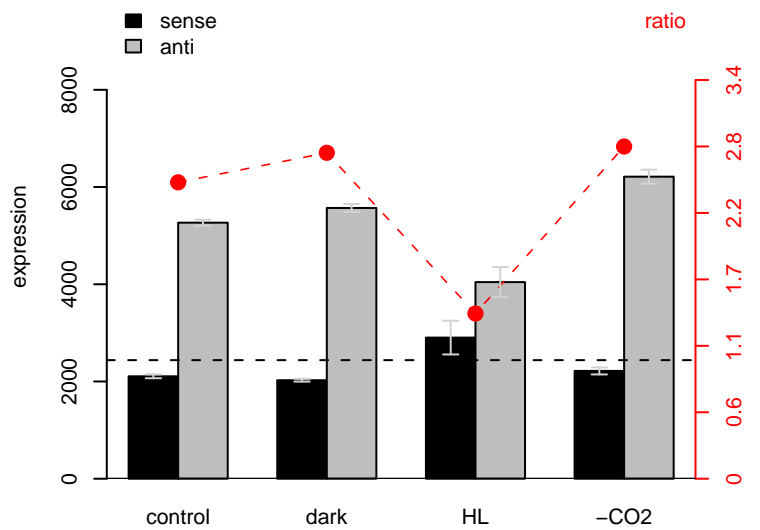


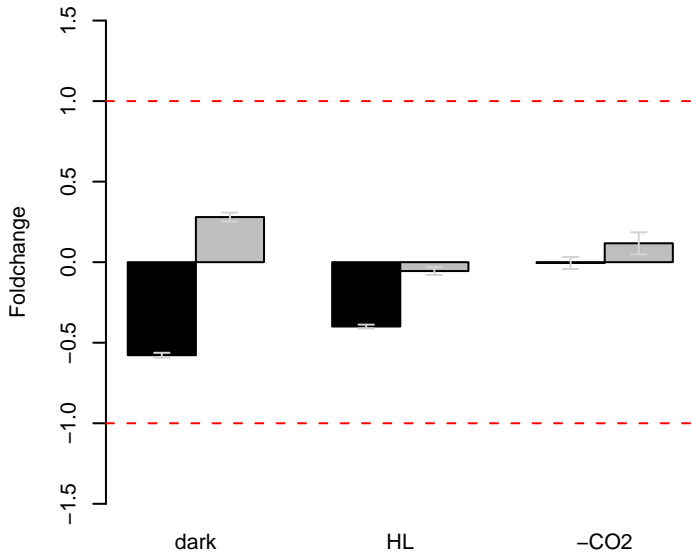
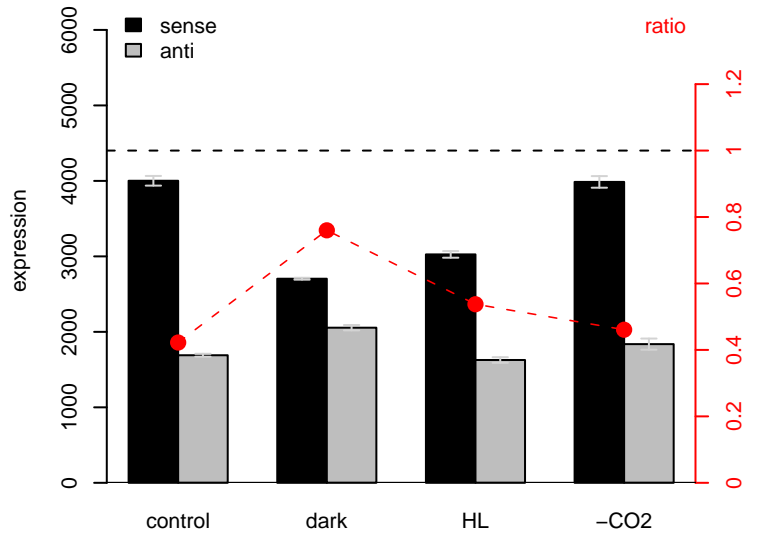
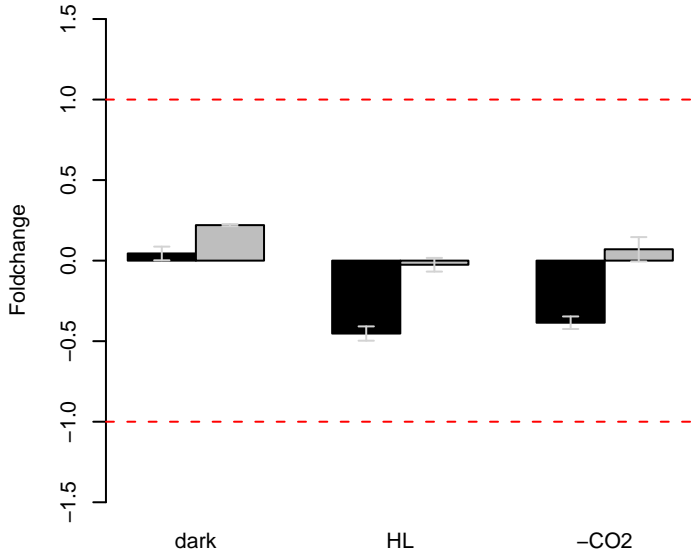
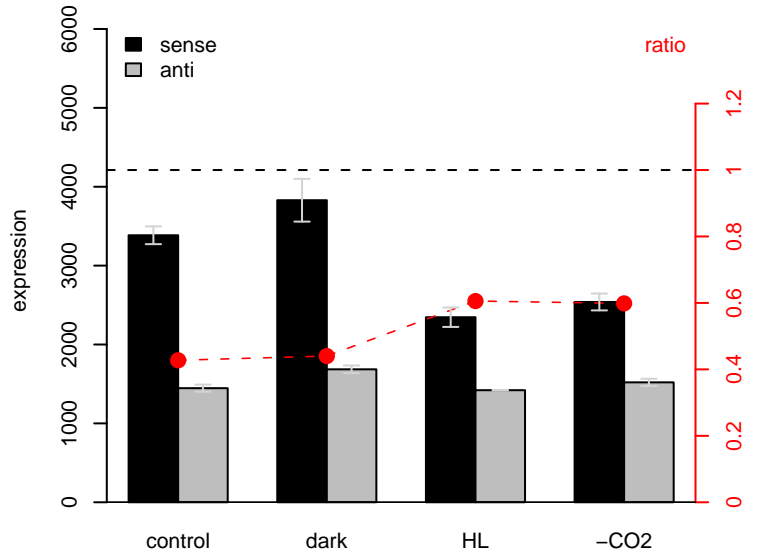
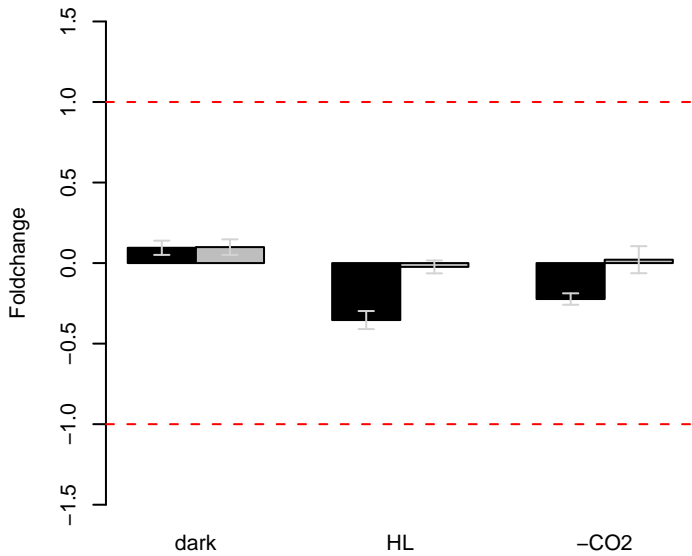
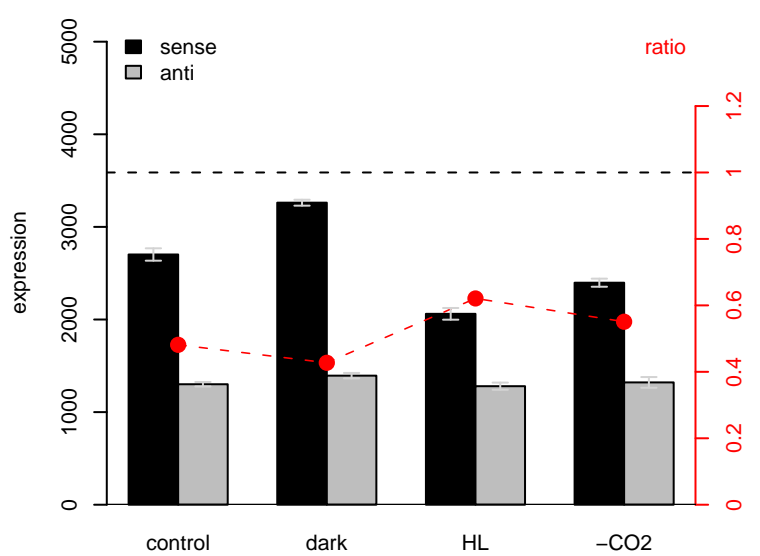
**hemN(sll1917)**

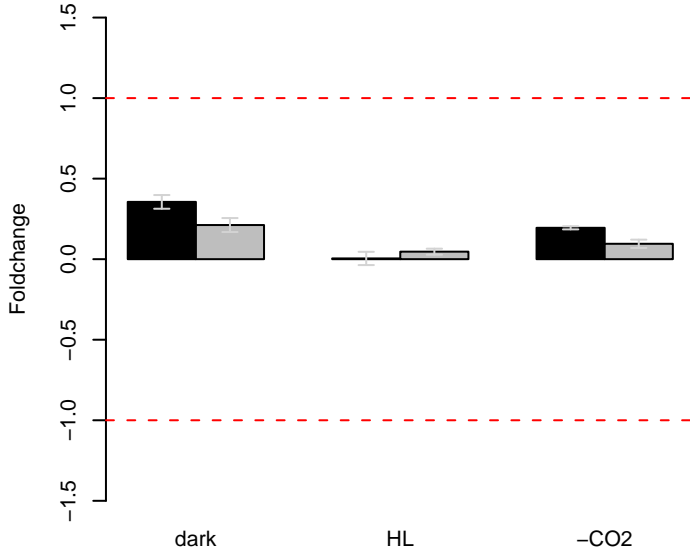
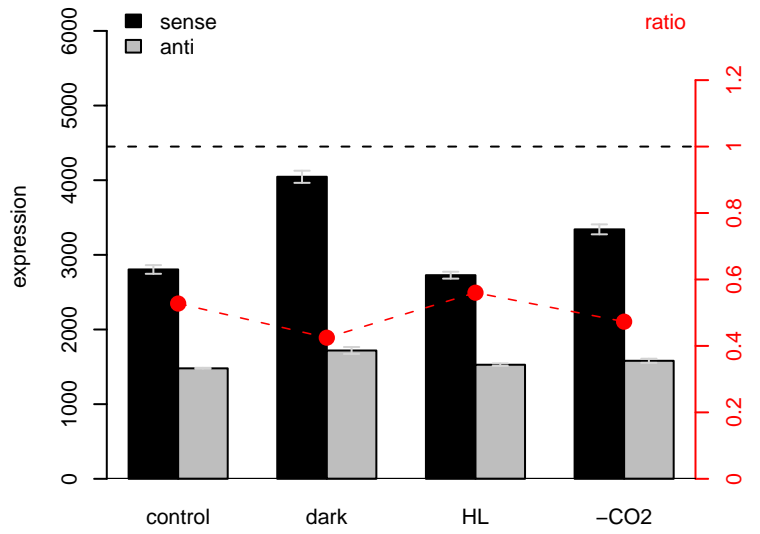
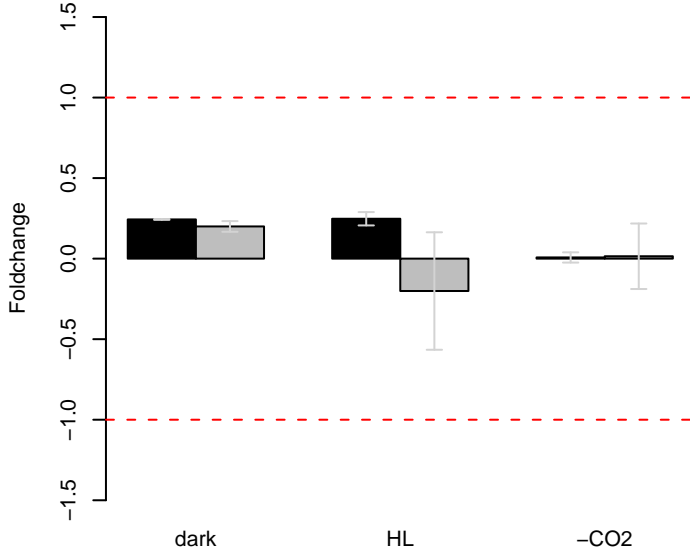
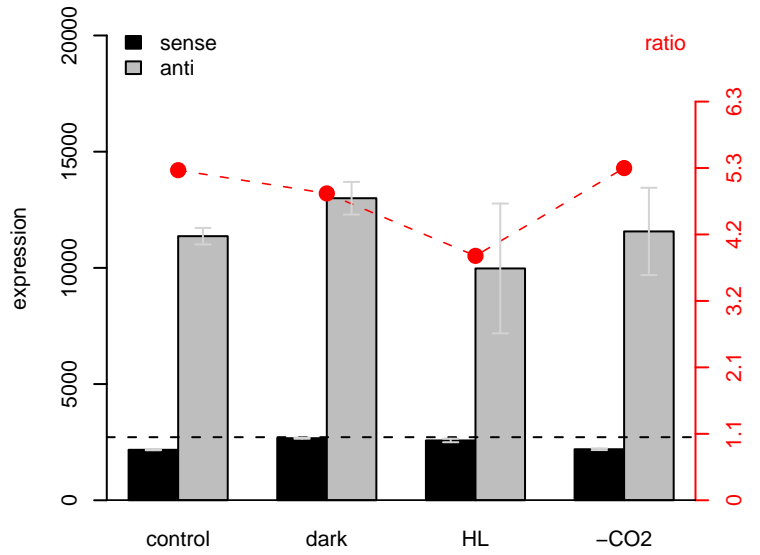
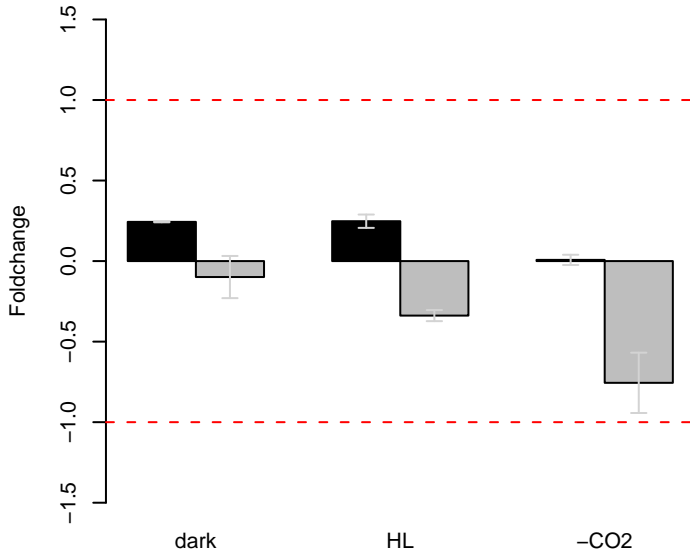
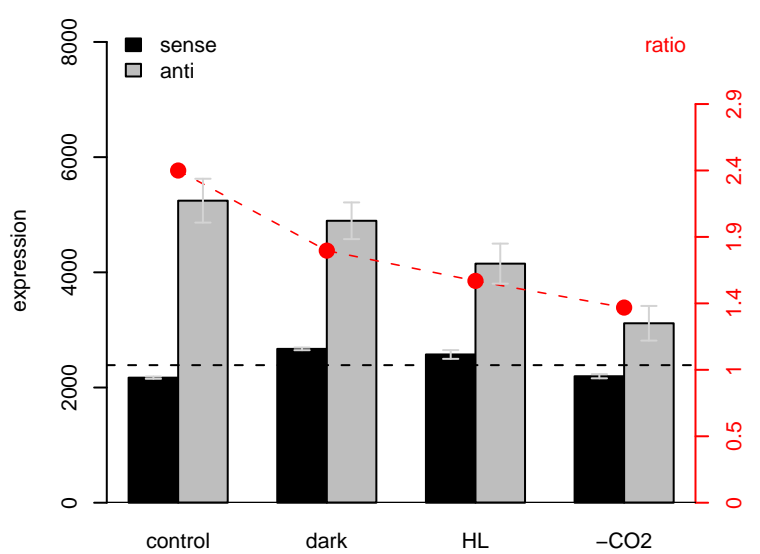


**genome\_1094**

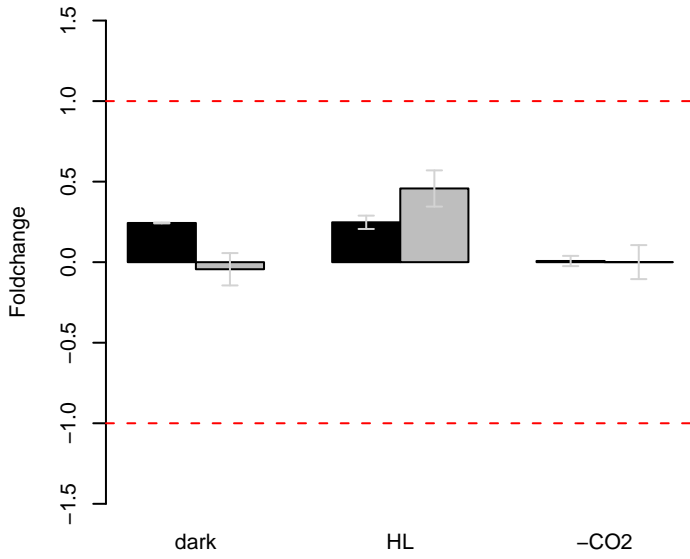
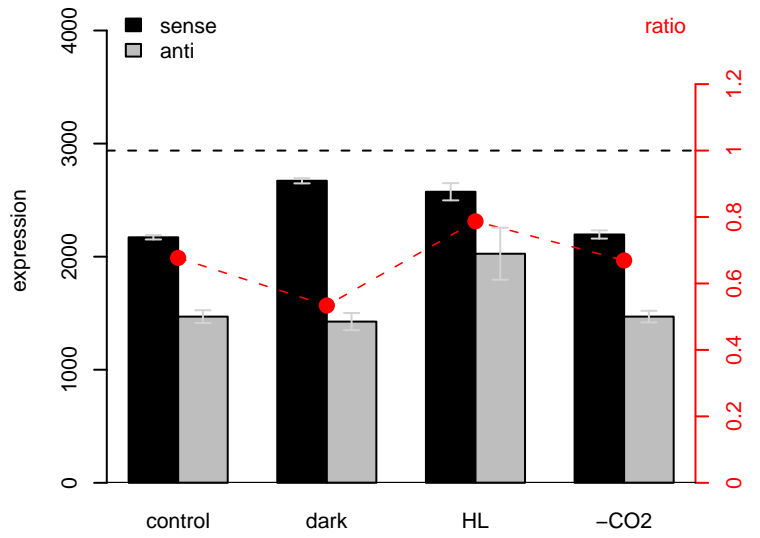
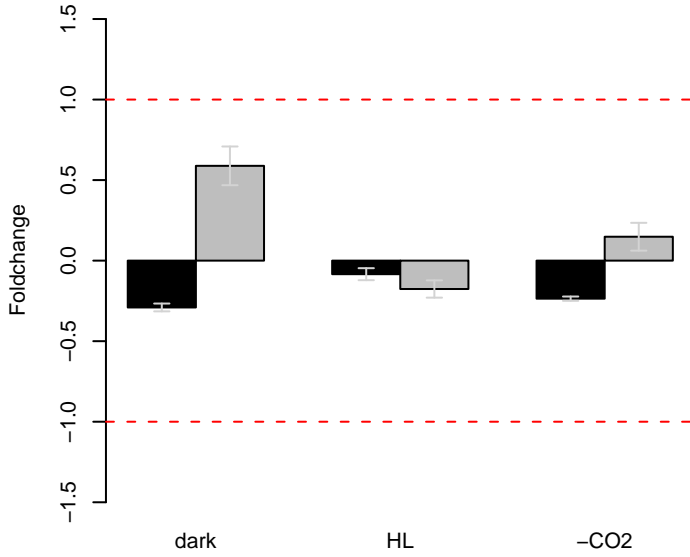
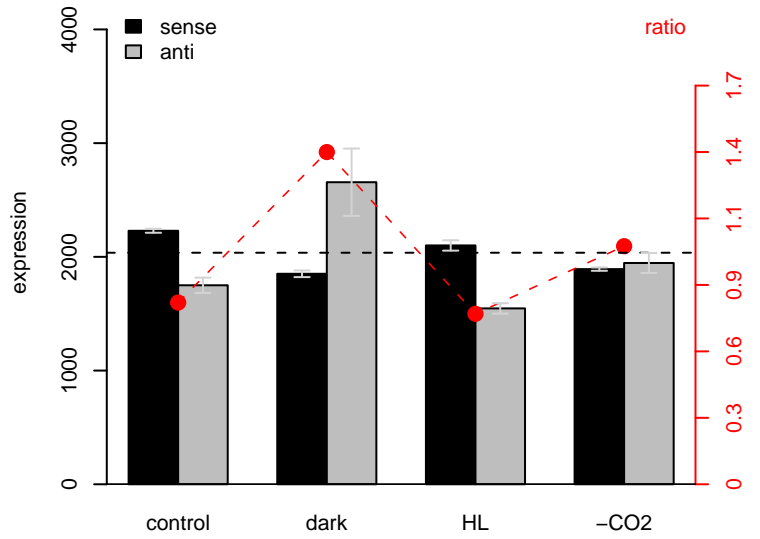
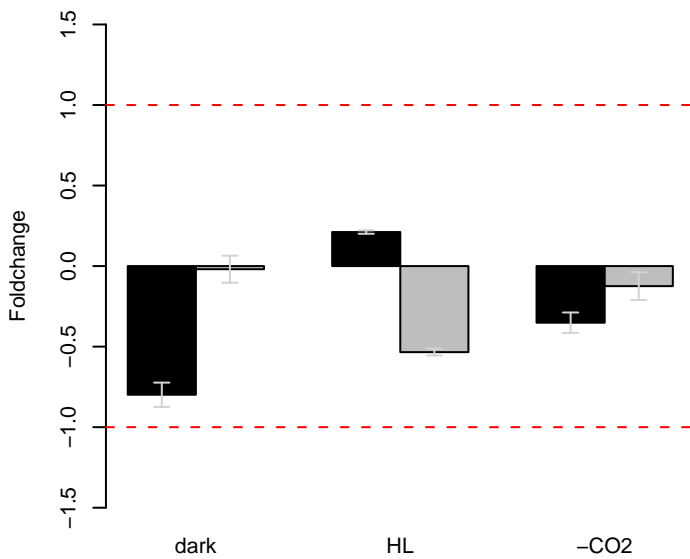
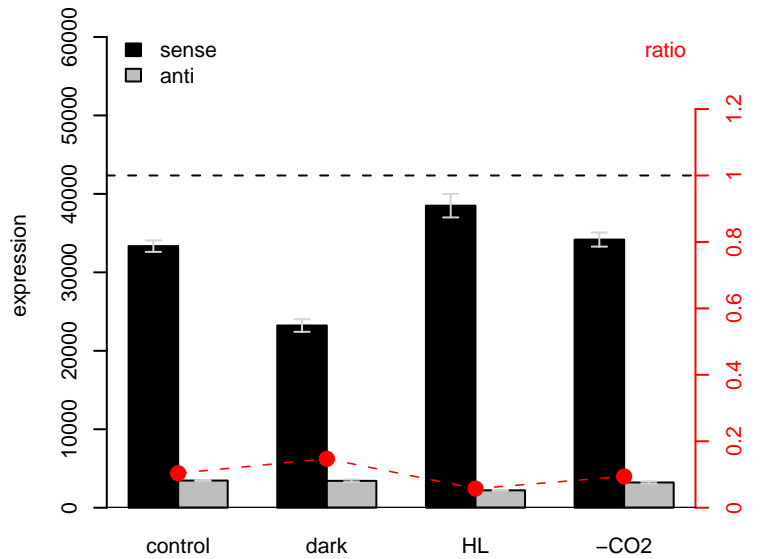


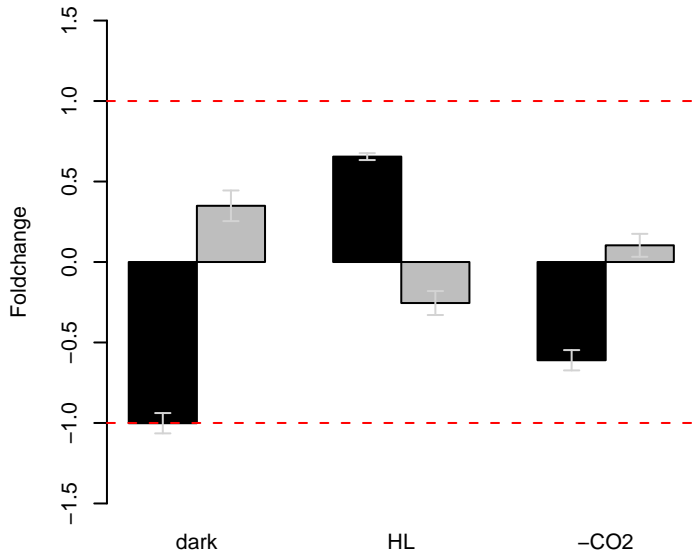
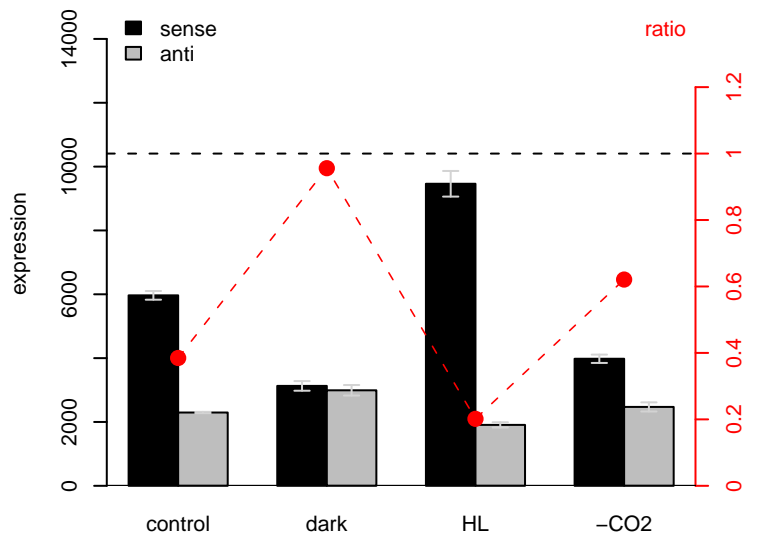
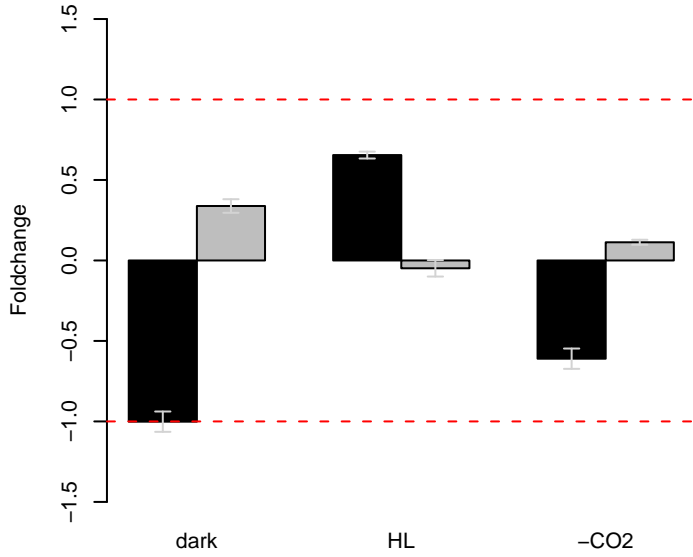
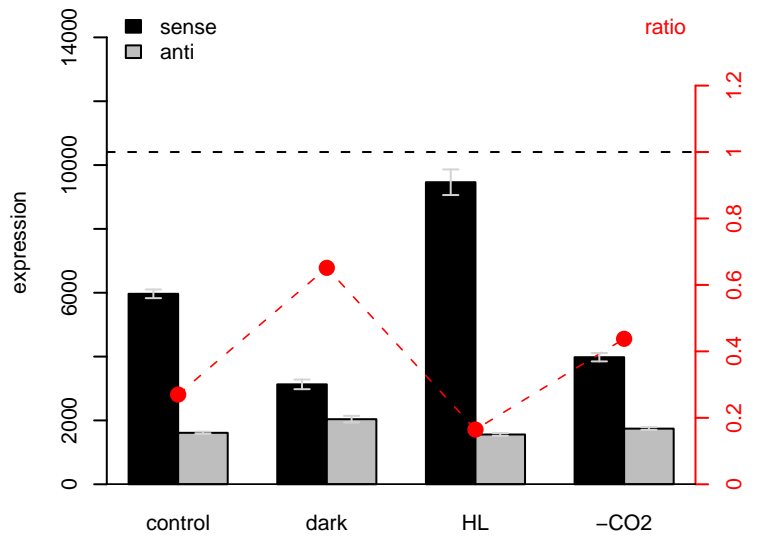
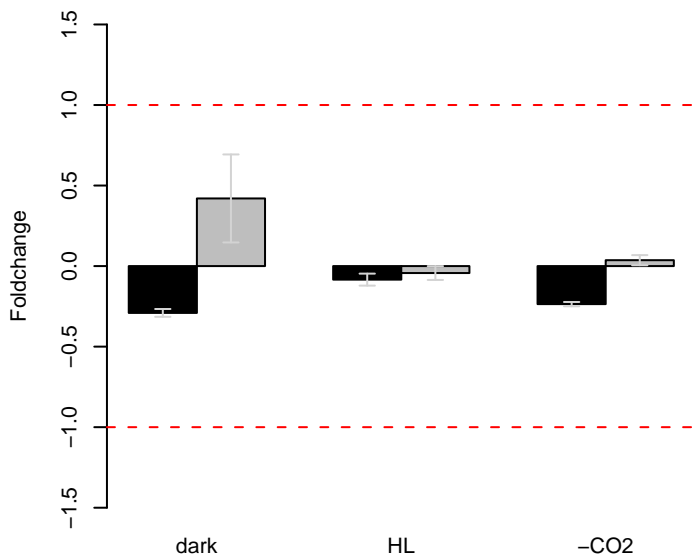
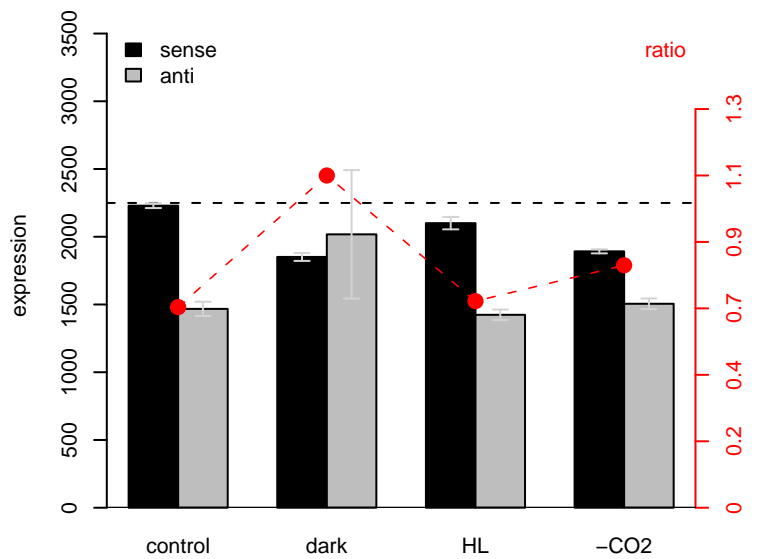
**foIP(slr2026)****genome\_1100****slr2027****genome\_1102****slr2031****genome\_1113**

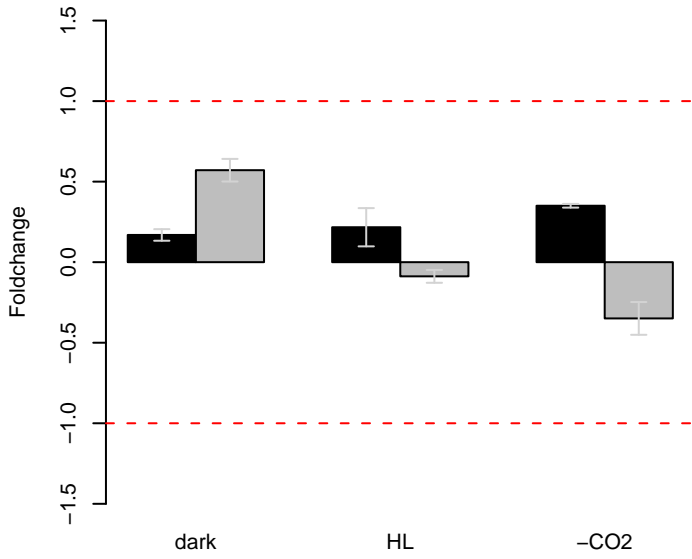
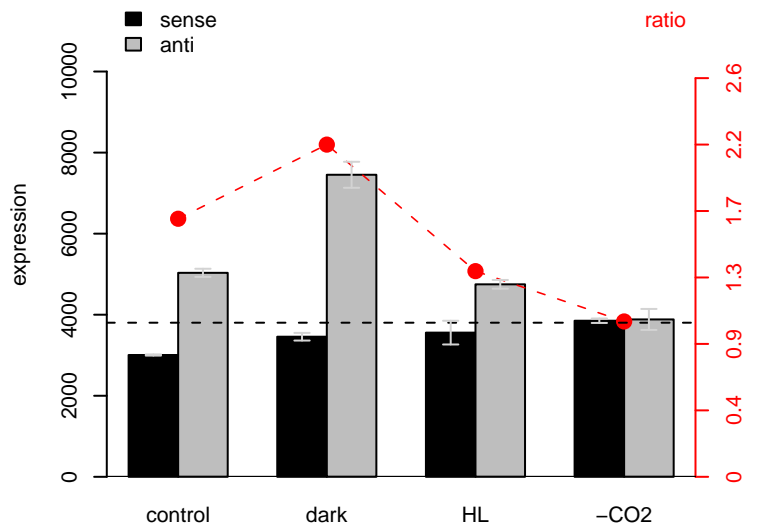
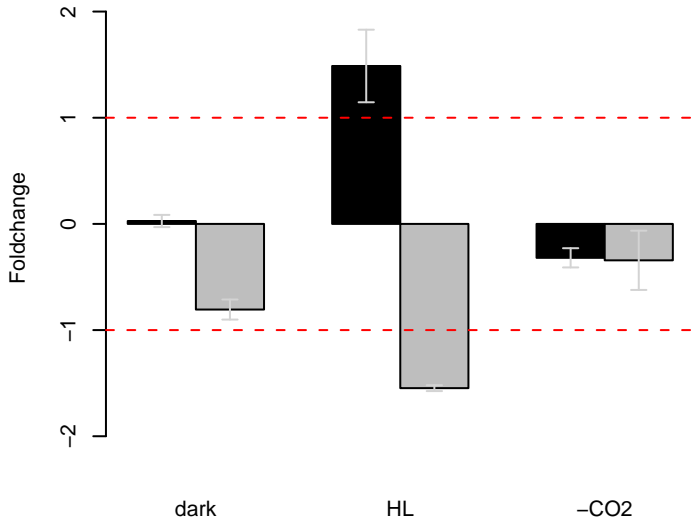
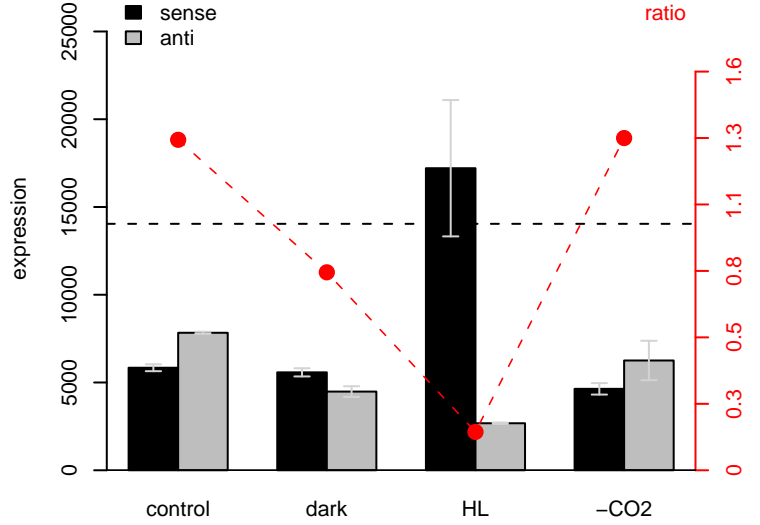
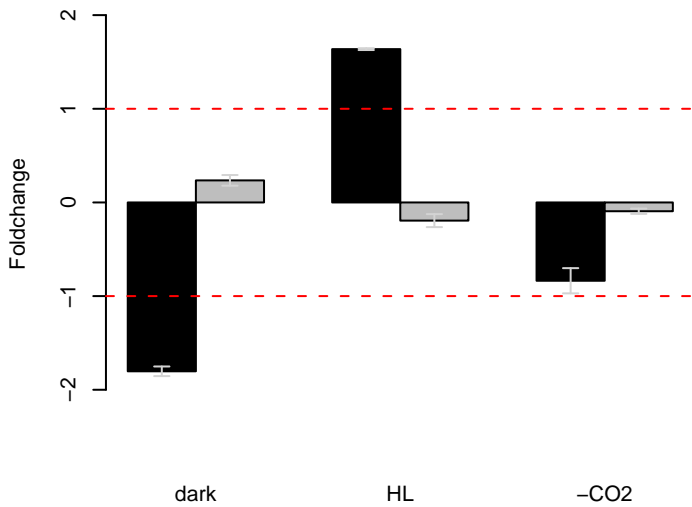
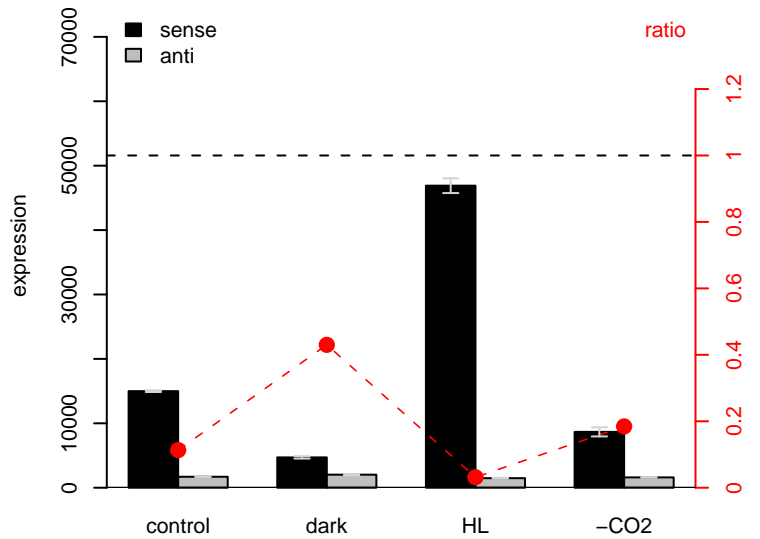
**ctaC(slr1136)****genome\_1121****slI1080****genome\_1132****hypB(sII1079)****genome\_1133**

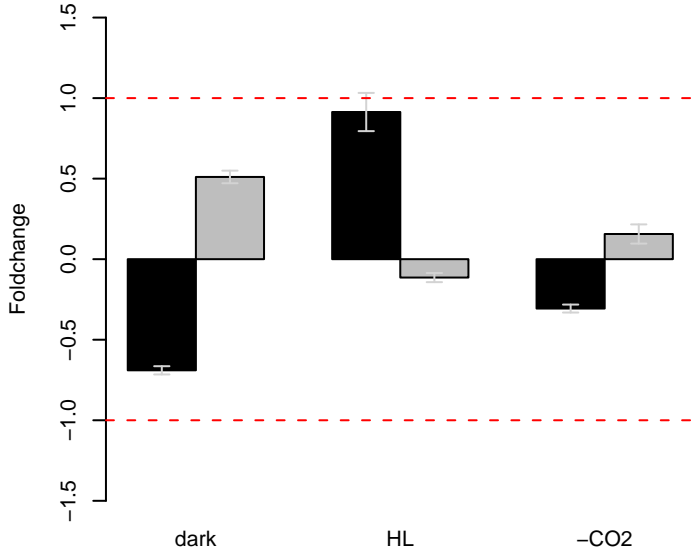
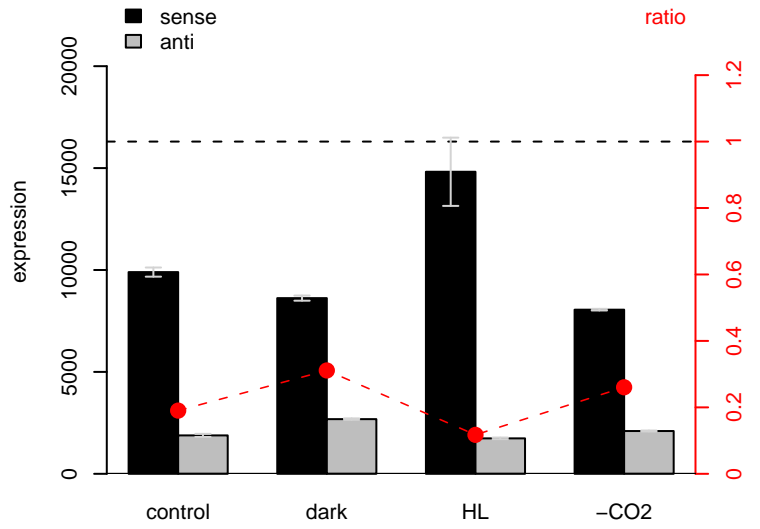
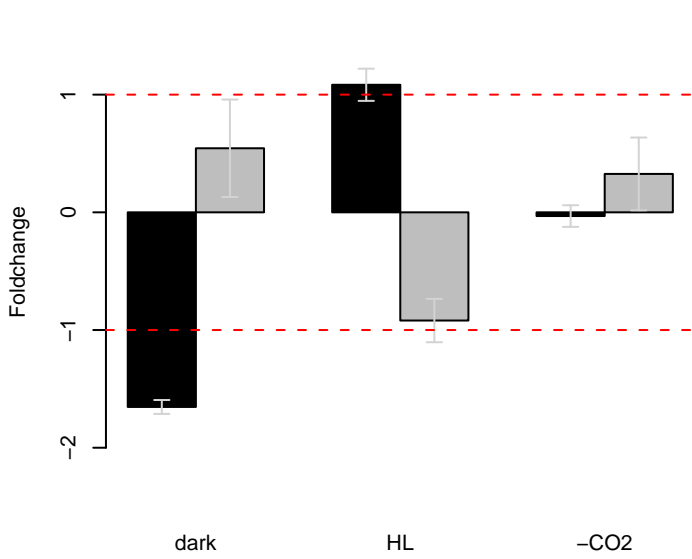
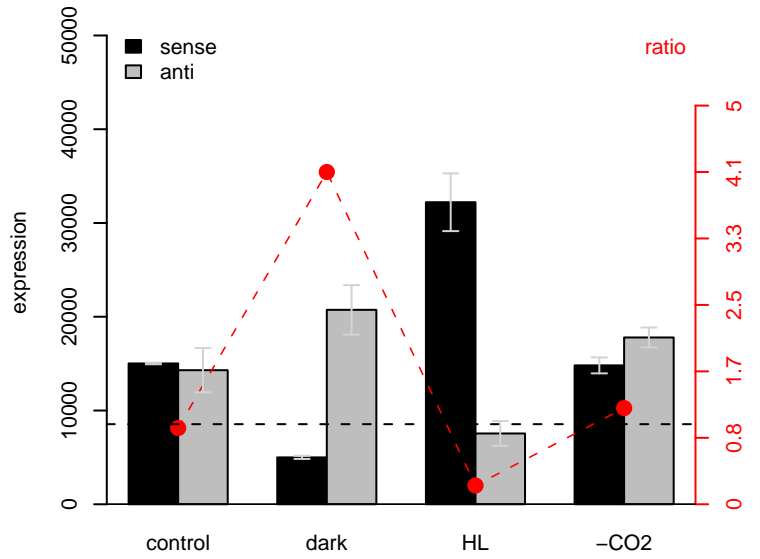
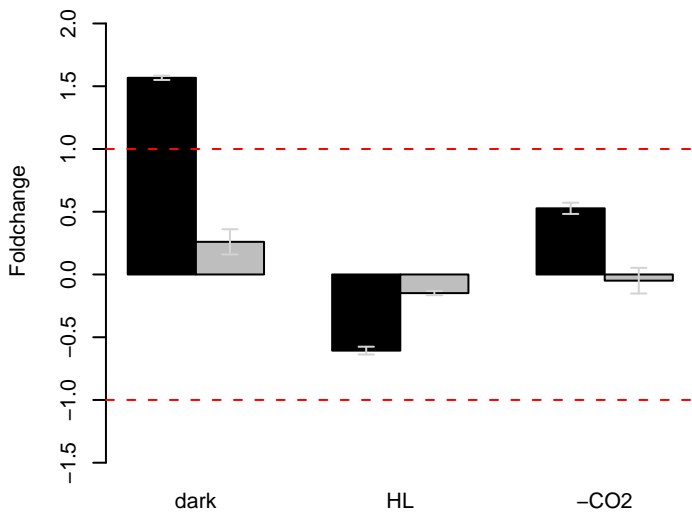
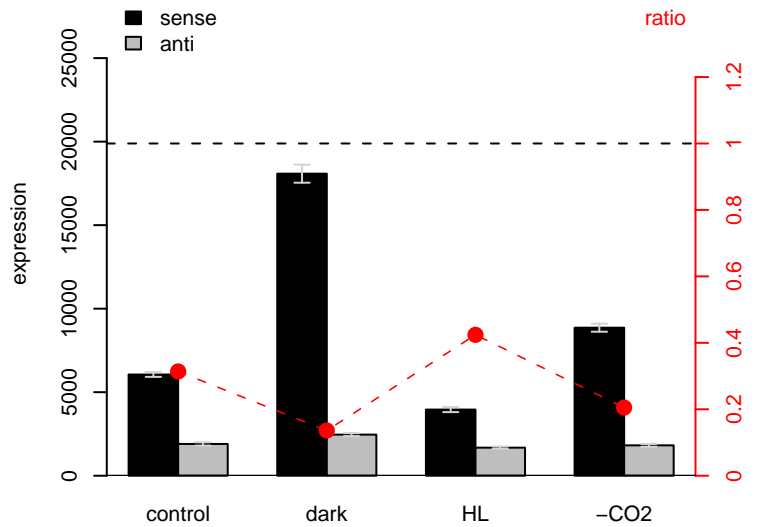
**slr1143****genome\_1141****slr1147****genome\_1153****slr1147****genome\_1153**



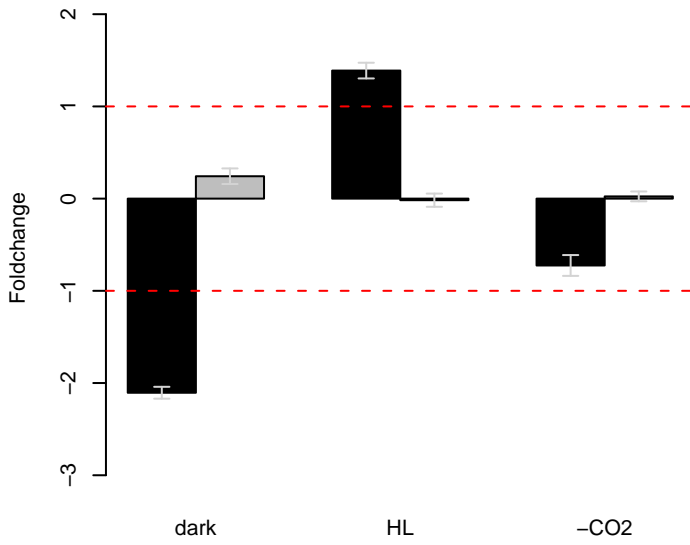
**slr1147****genome\_1153****sII1049****genome\_115****tktA(sII1070)****genome\_1164**

**fabF(sll1069)****genome\_1166****fabF(sll1069)****genome\_1166****sll1049****genome\_115**

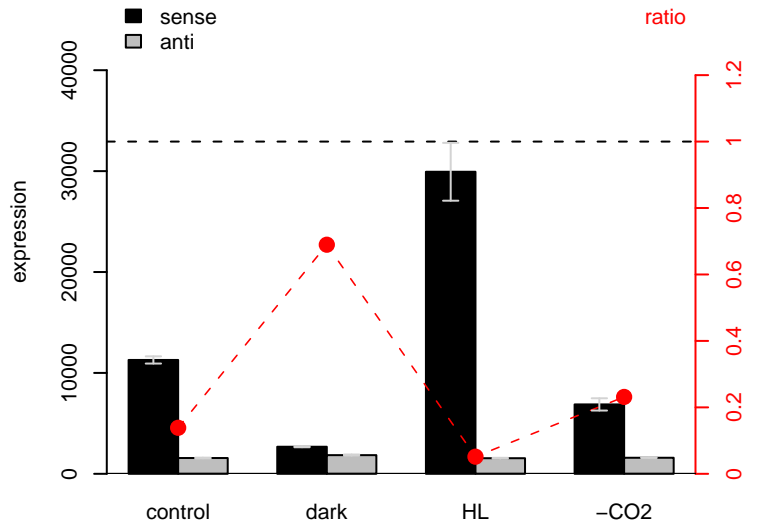
**sll1825****genome\_1174****purA(sll1823)****genome\_1178****rpoA(sll1818)****genome\_1188**

**adk(sll1815)****genome\_1193****secY(sll1814)****genome\_1195****slr1128****genome\_119**

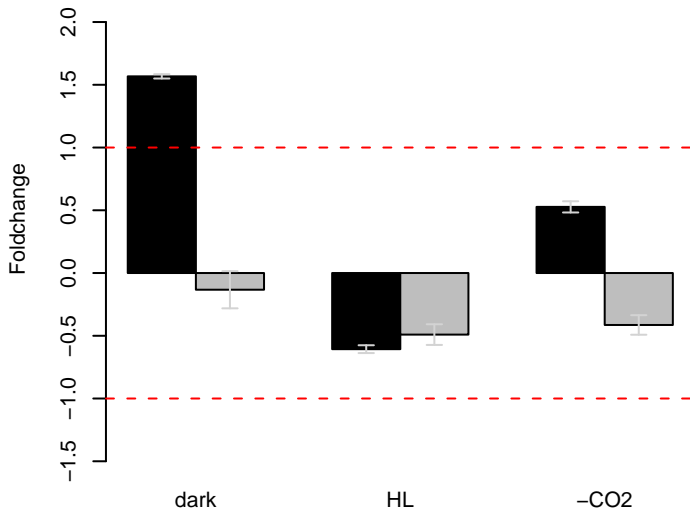
**rplV(sll1803)**



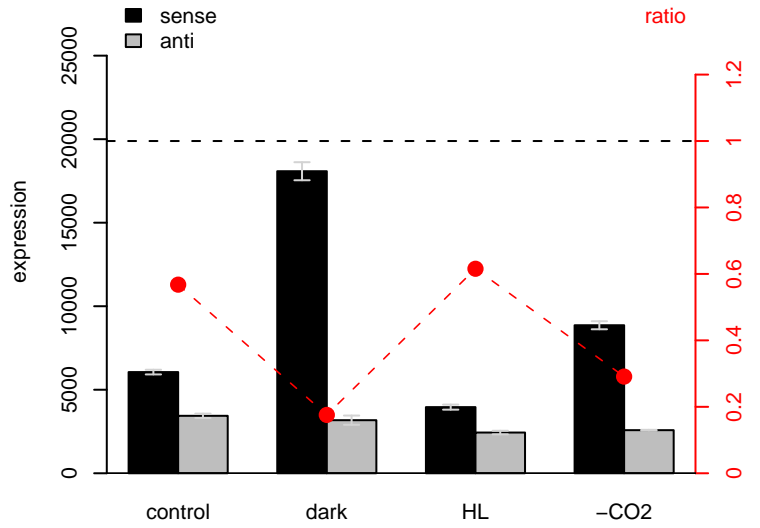
**genome\_1208**



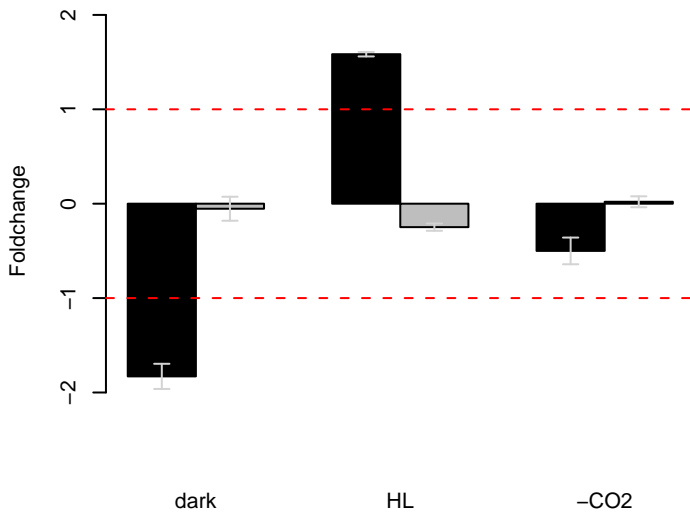
**slr1128**



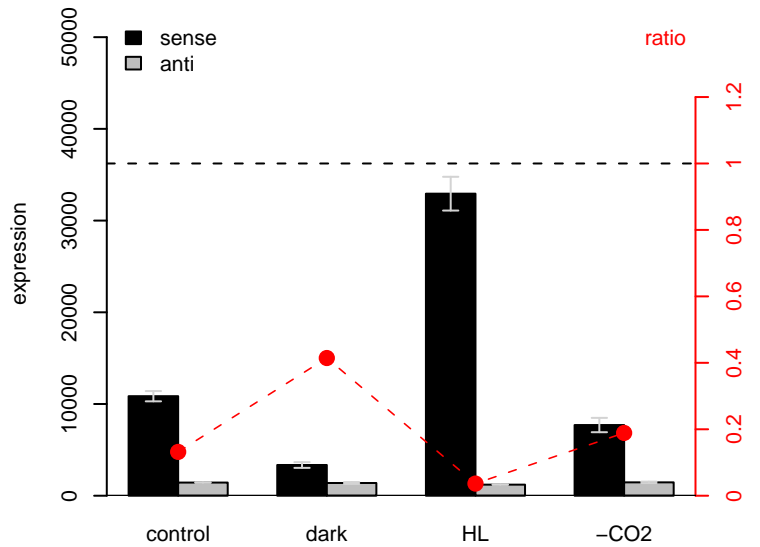
**genome\_119**



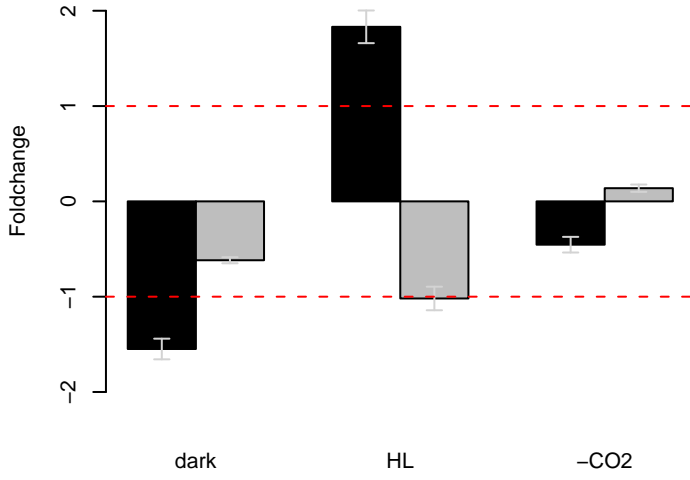
**rplW(sll1801)**



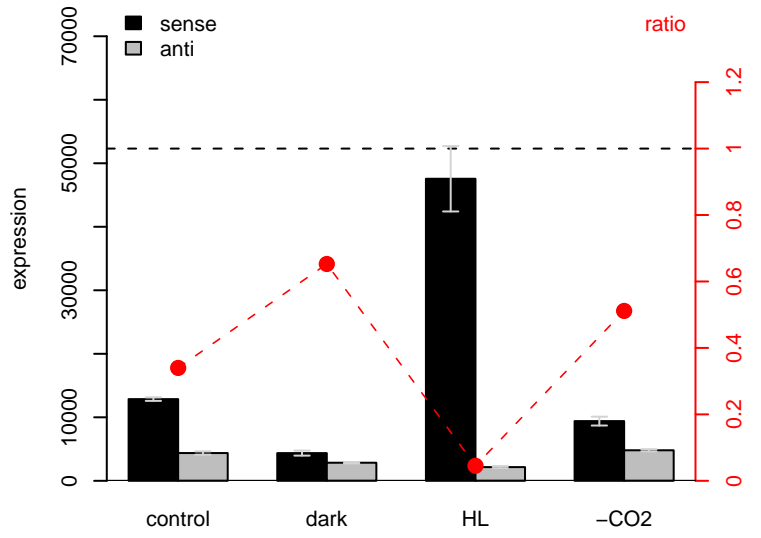
**genome\_1213**



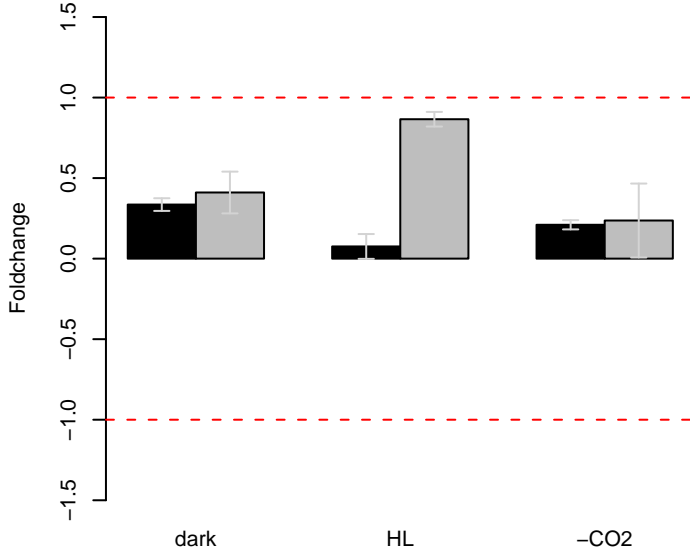
**rplC(sll1799)**



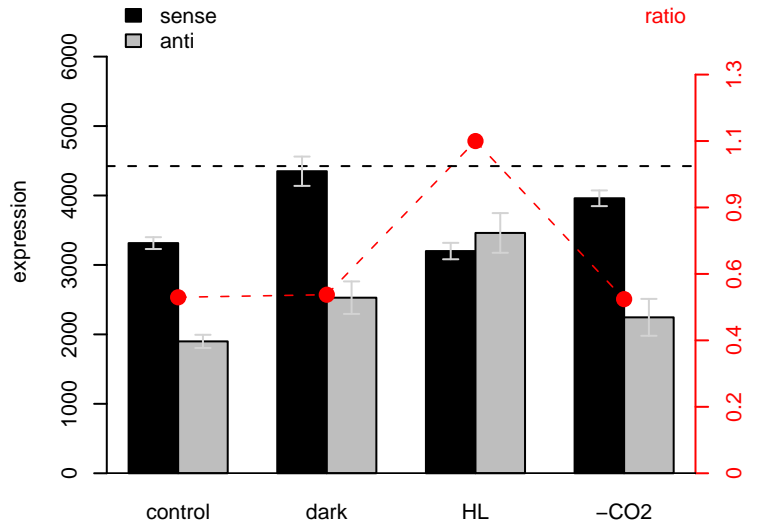
**genome\_1216**



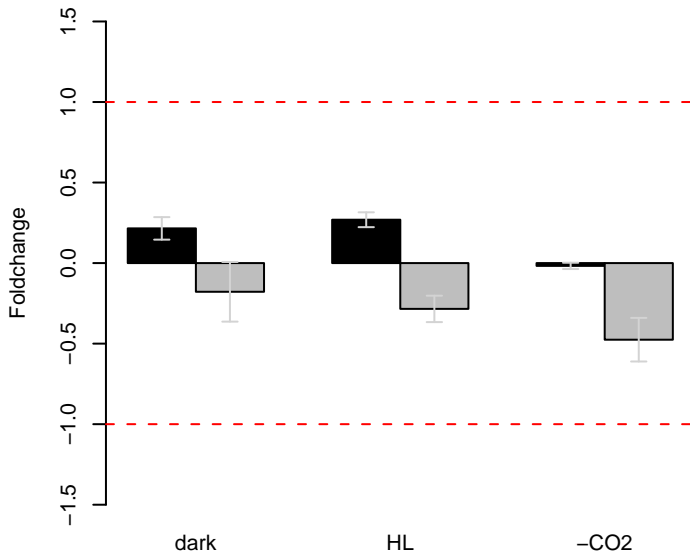
**slr1895**



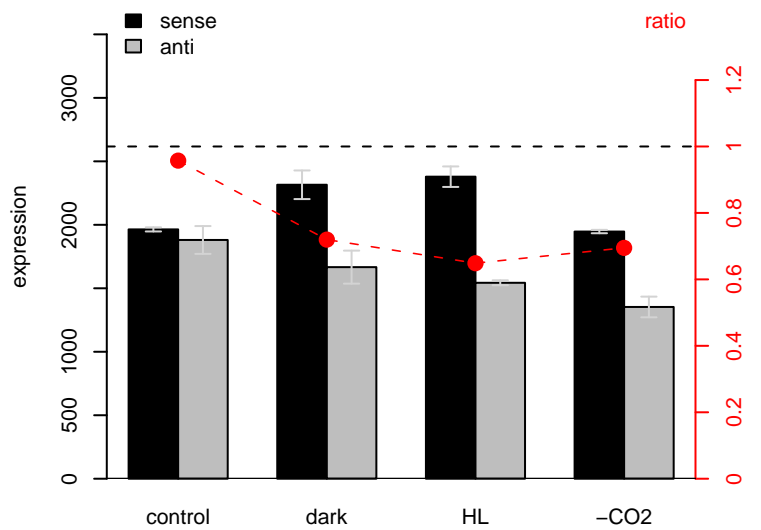
**genome\_1220**



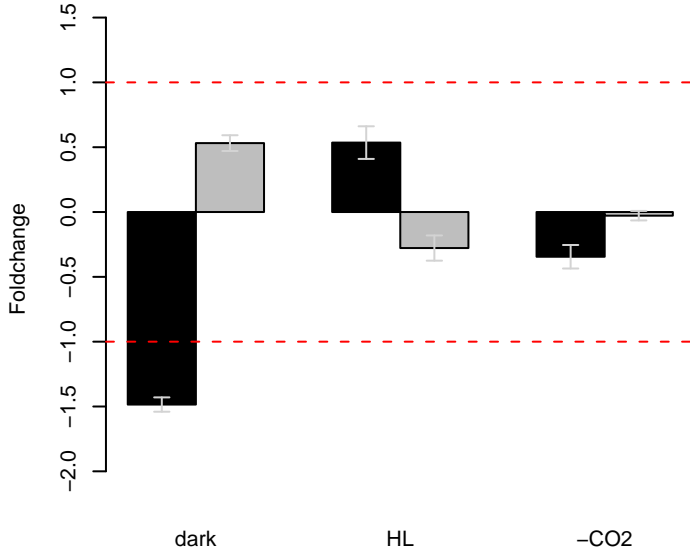
**slr1896**



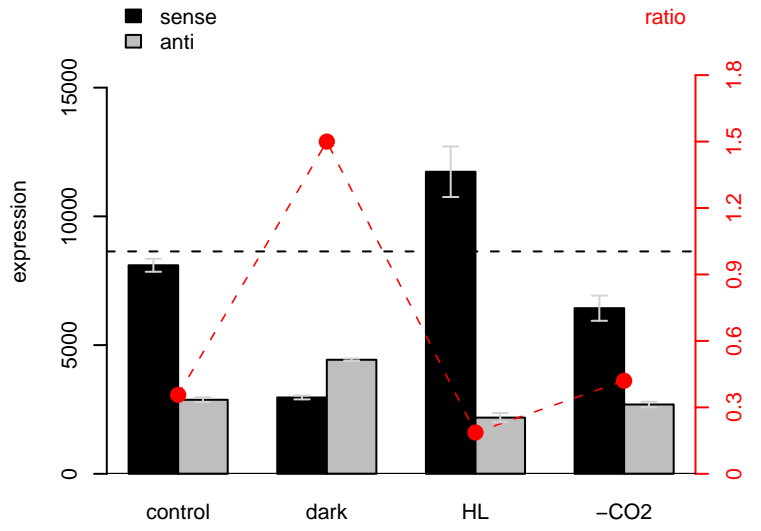
**genome\_1222**



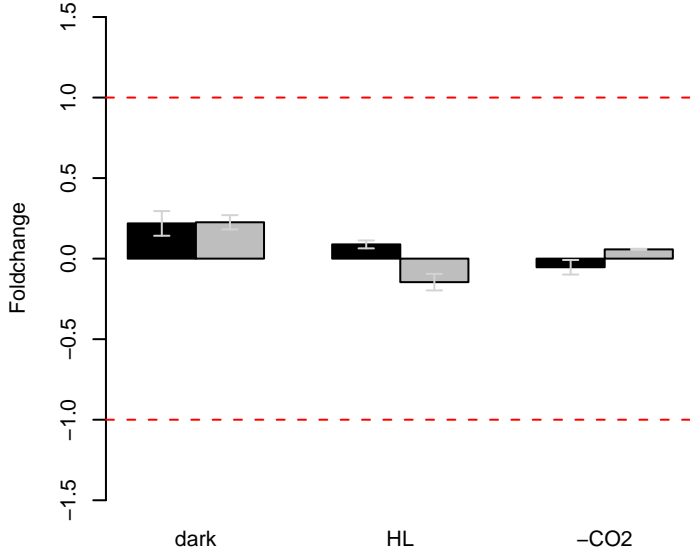
**rpoB(sll1787)**



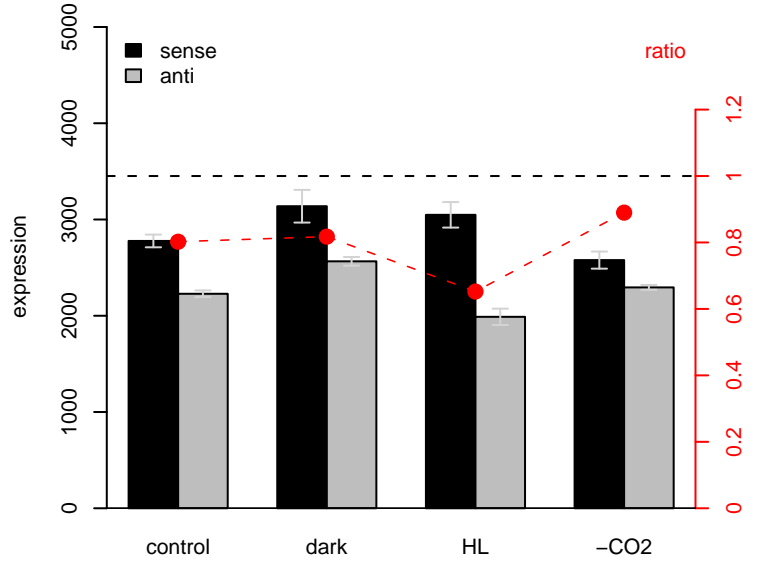
**genome\_1236**



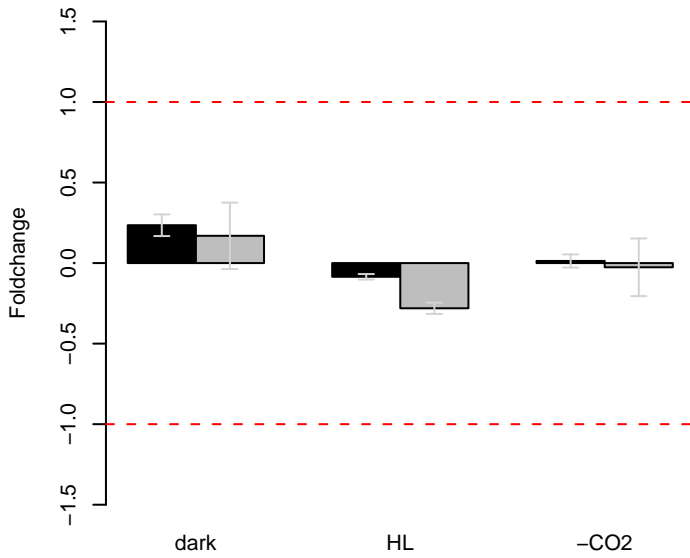
**sll1124**



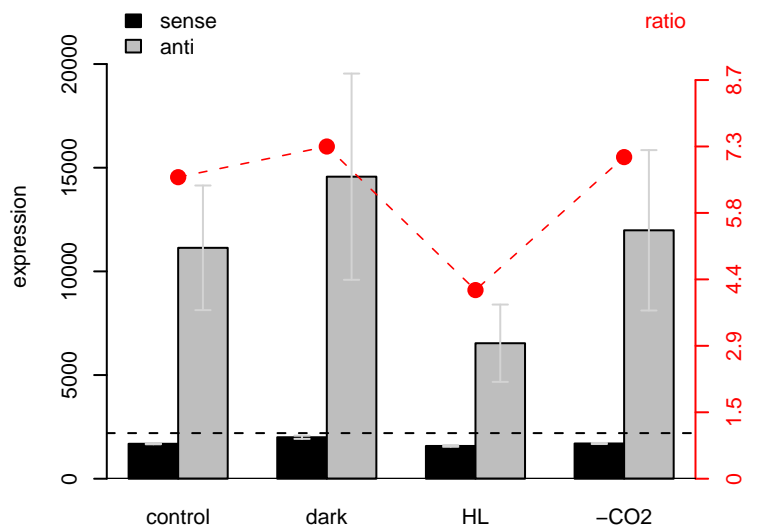
**genome\_1242**

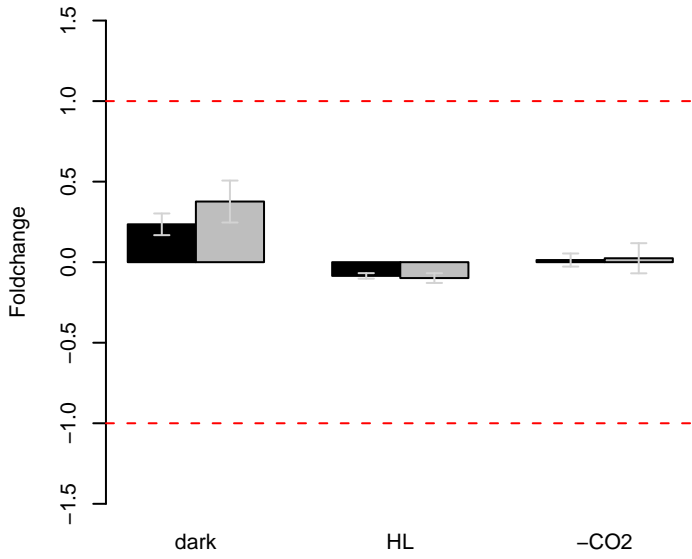
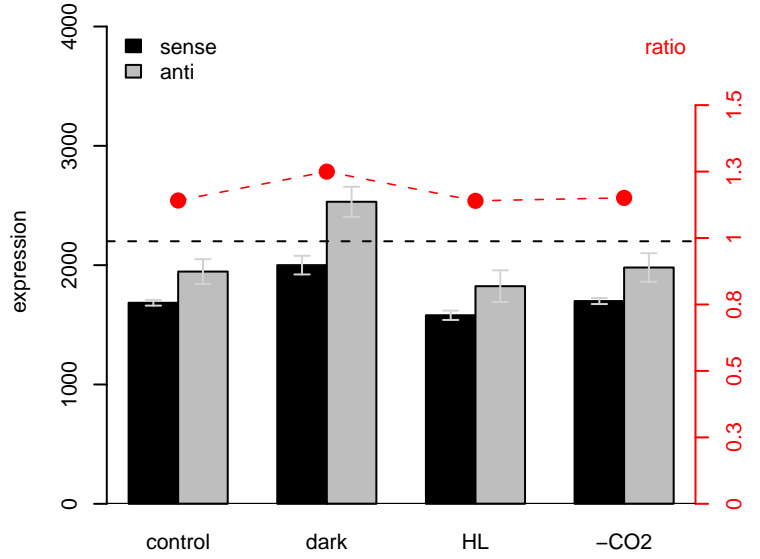
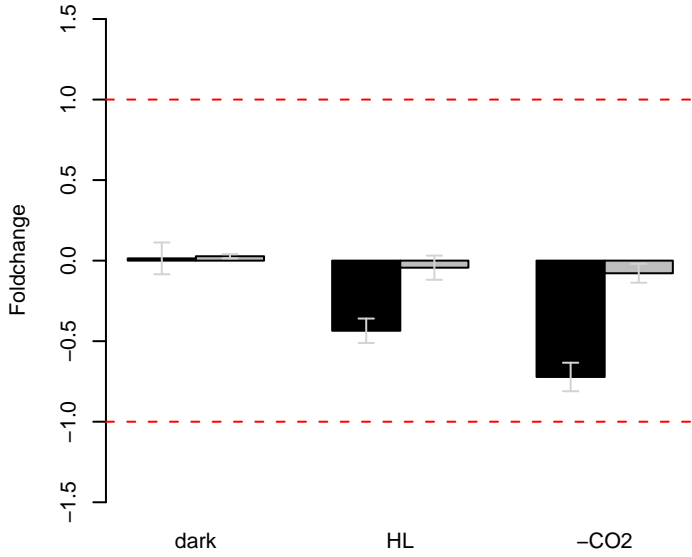
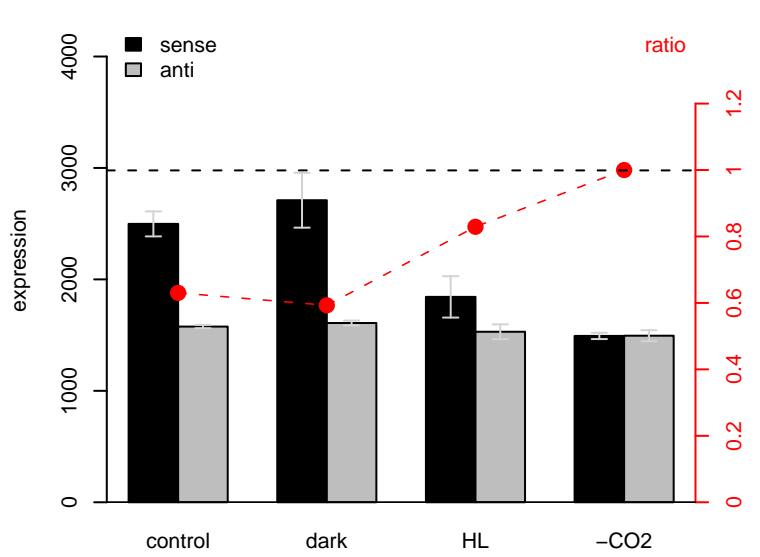
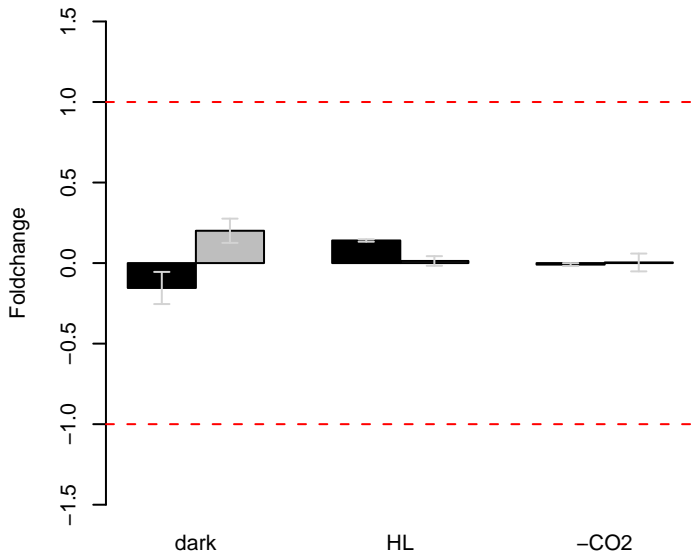
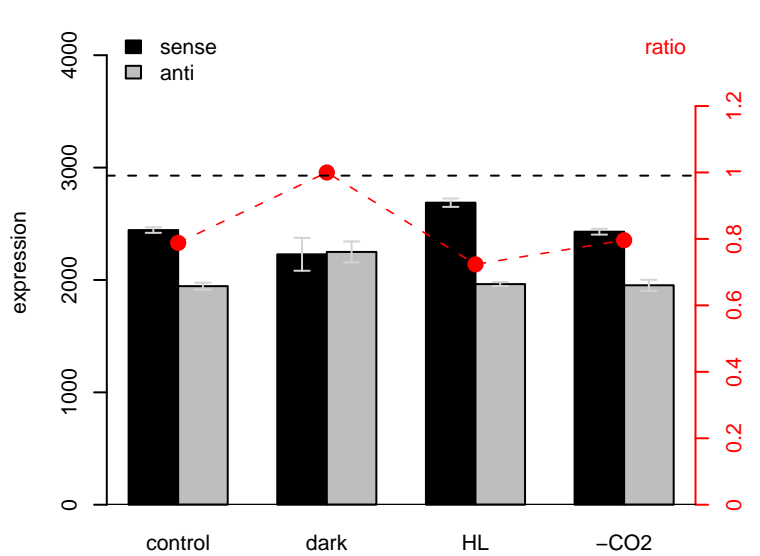


**sll1121**

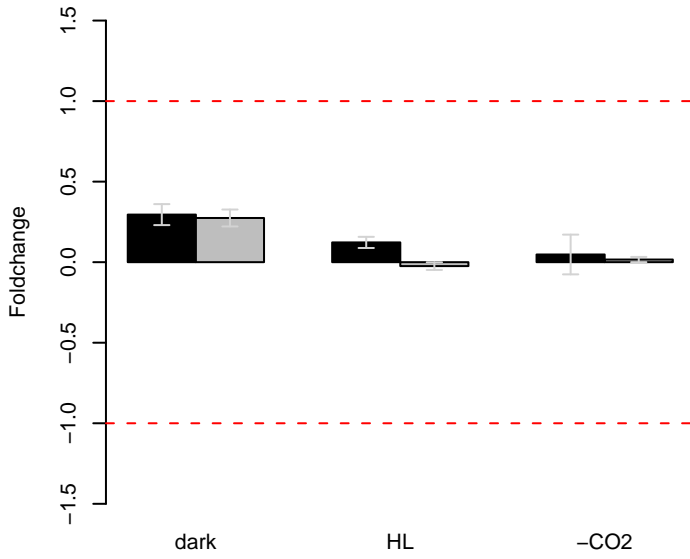
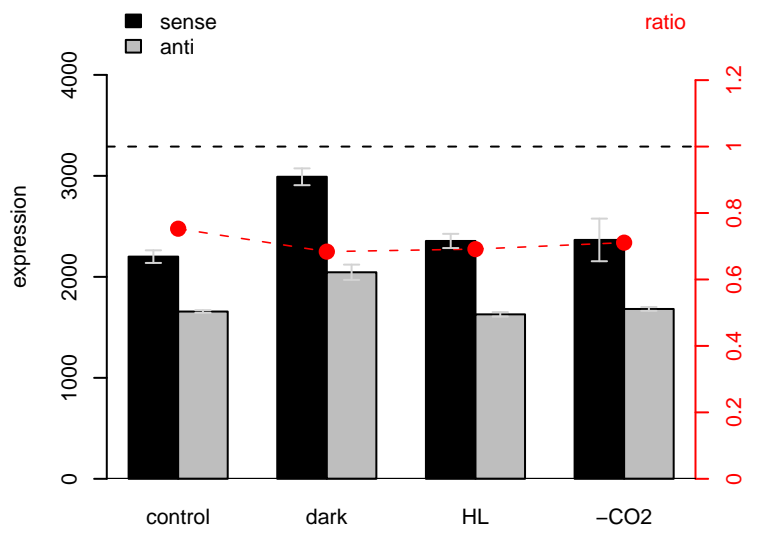
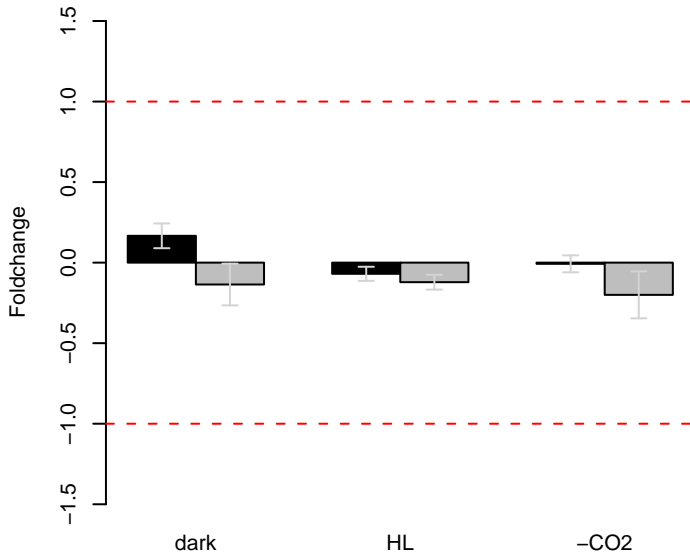
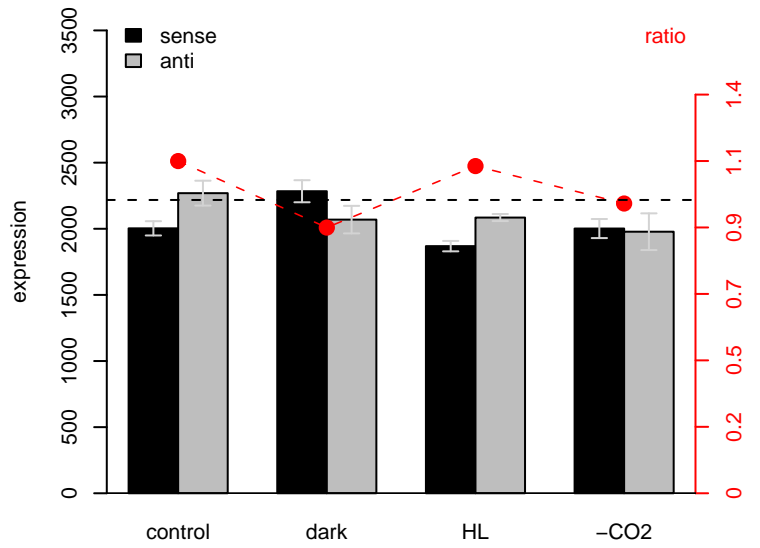
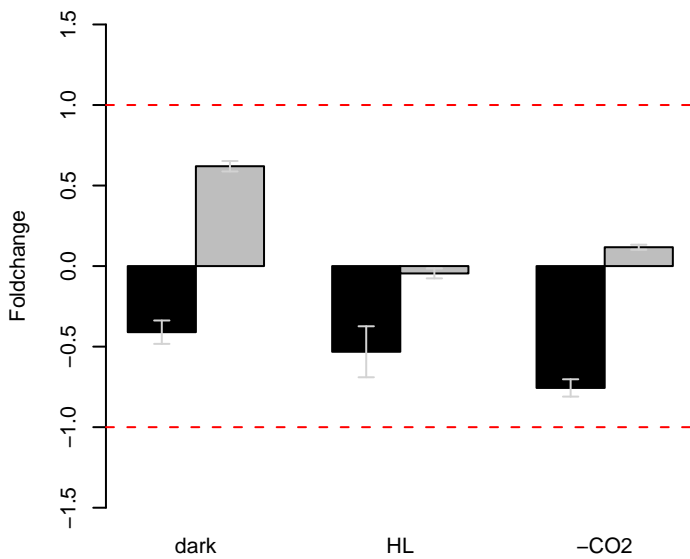
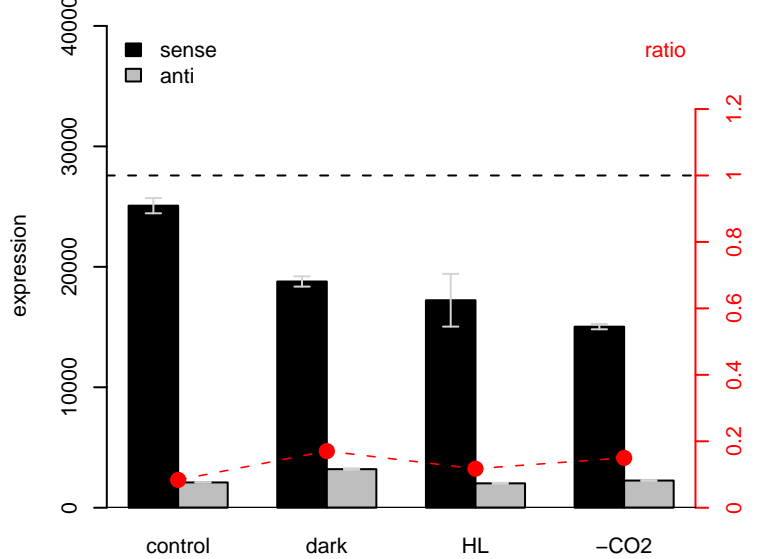


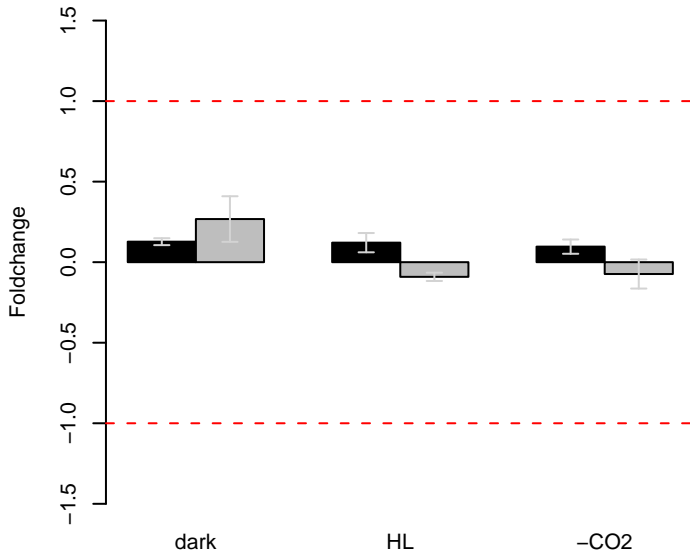
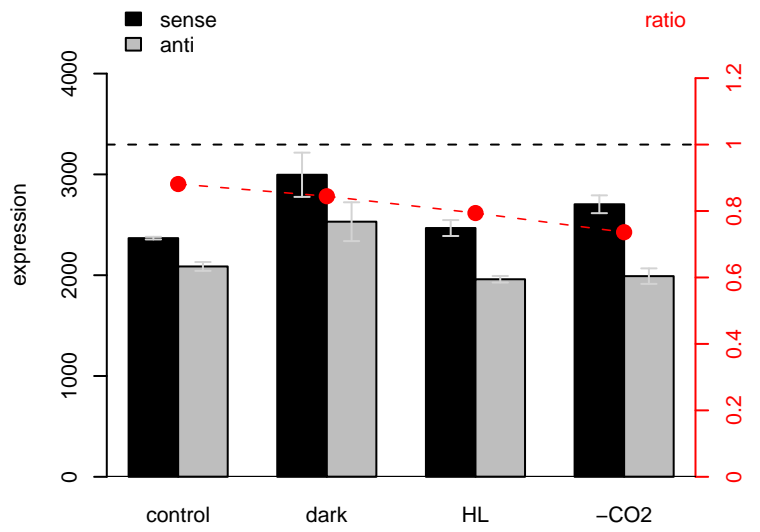
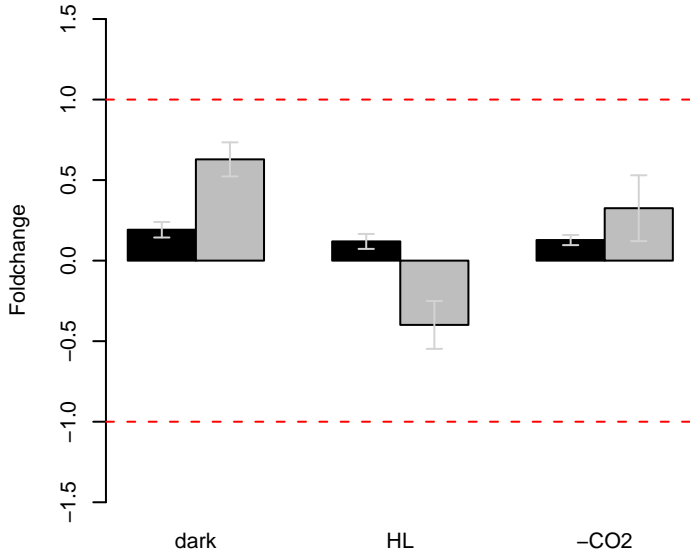
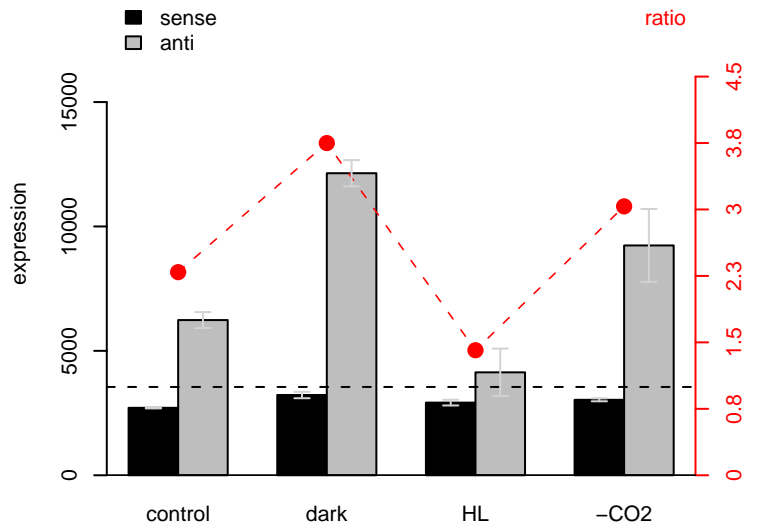
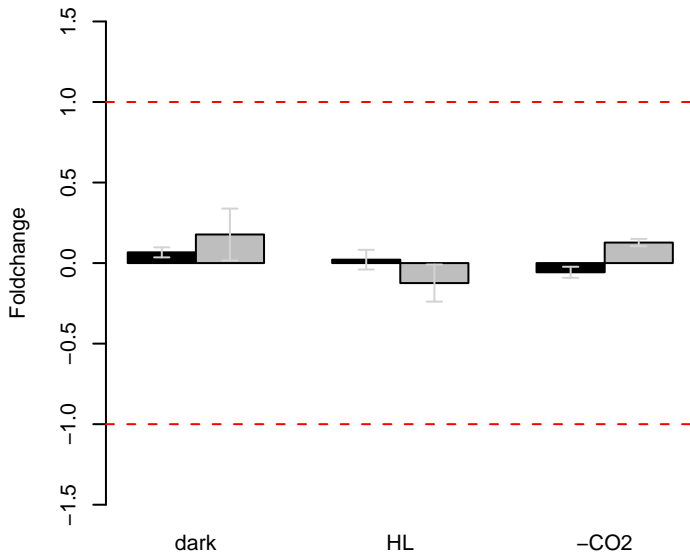
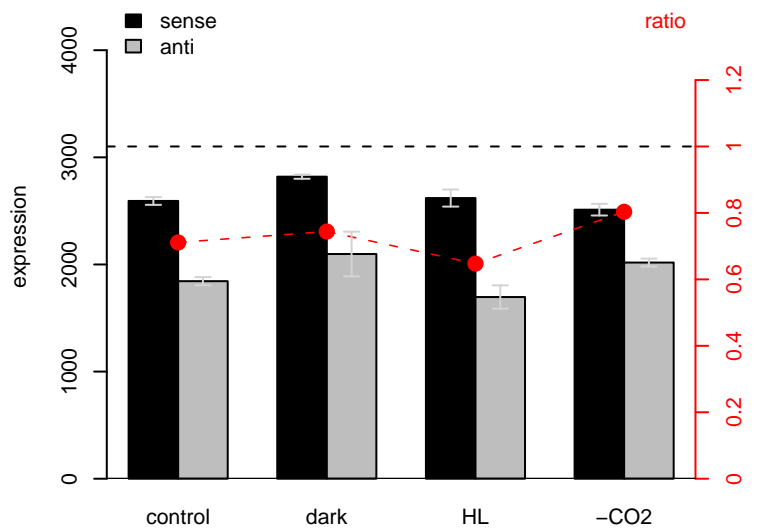
**genome\_1245**

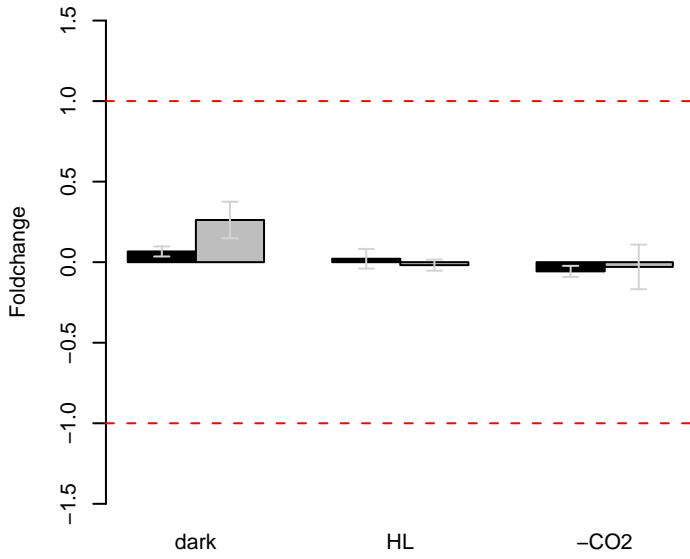
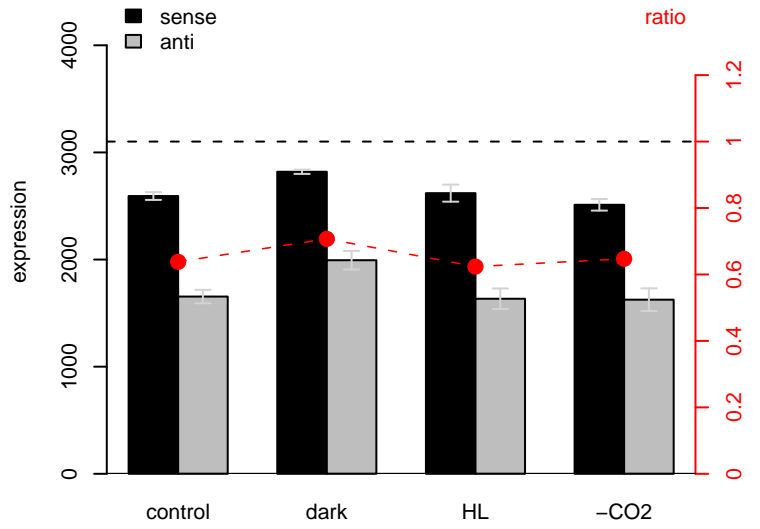
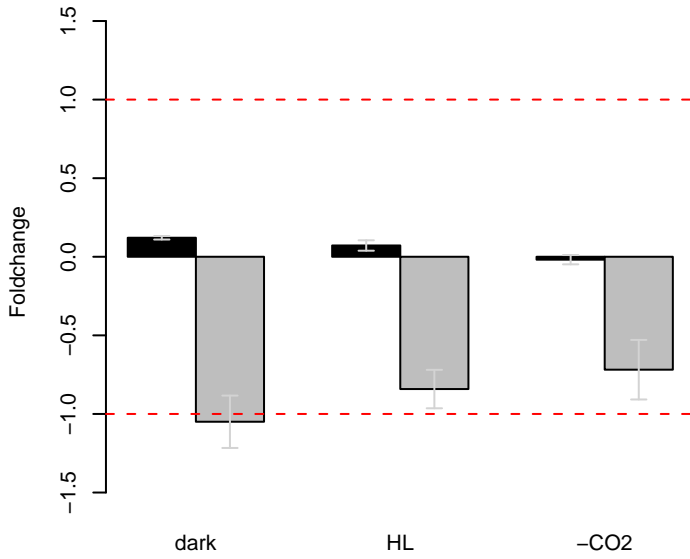
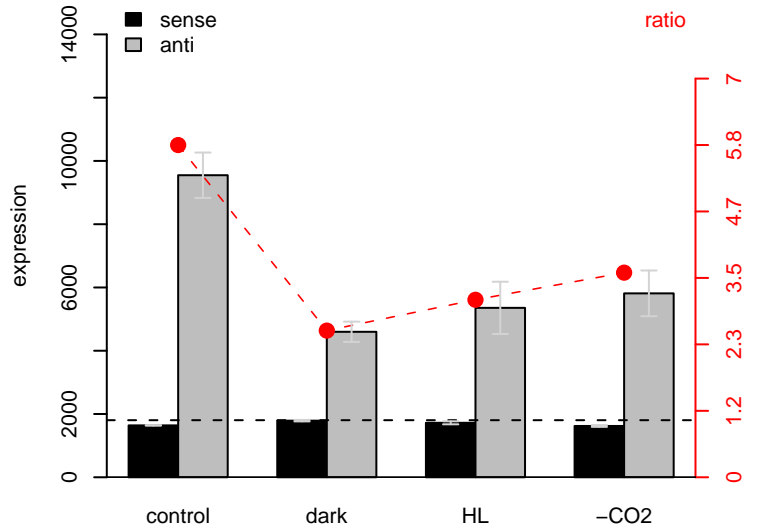
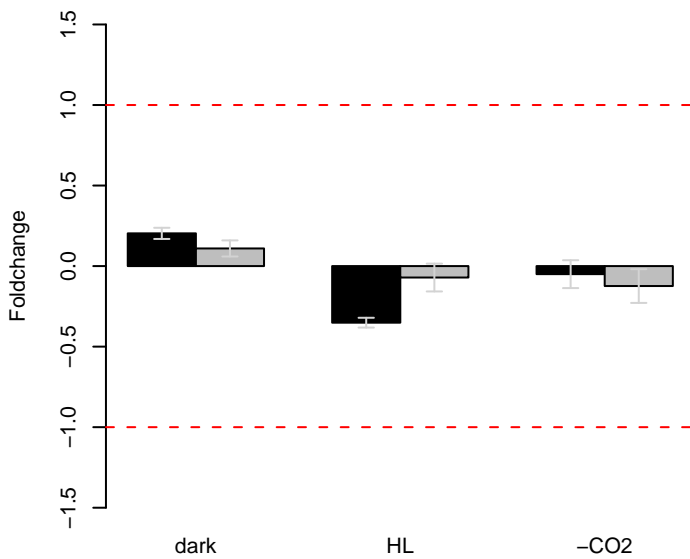
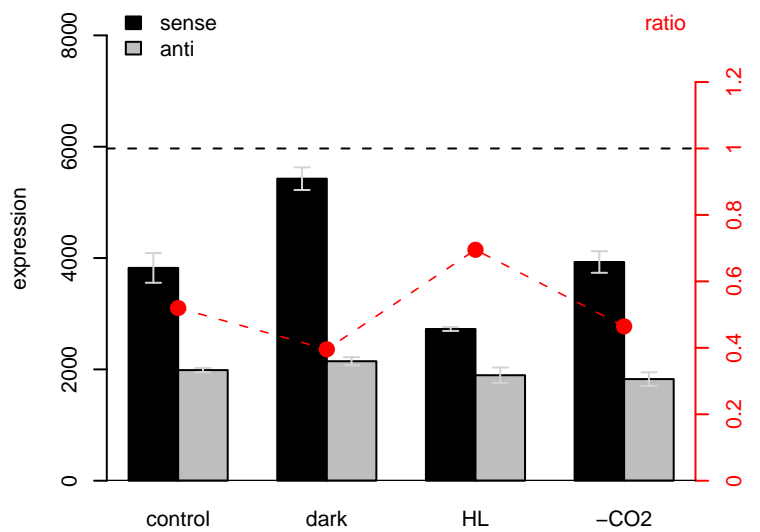


**sll1121****genome\_1245****sll1119****genome\_1249****slr1196****genome\_1253**

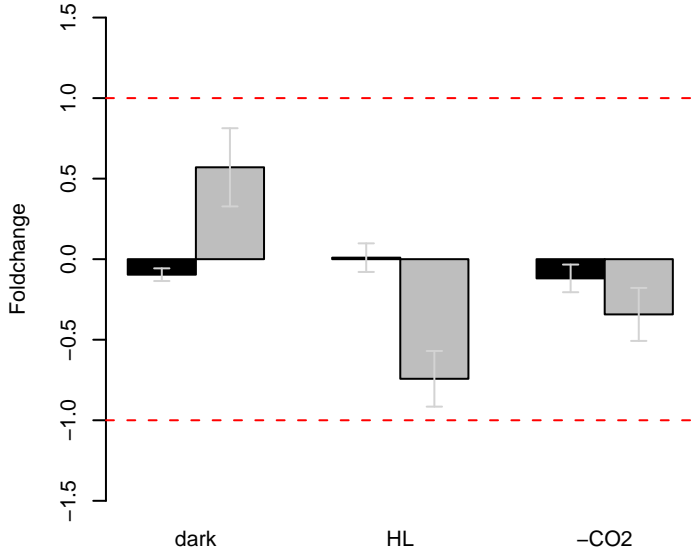


**slr1197****genome\_1255****ssr2009****genome\_1259****slr1198****genome\_1261**

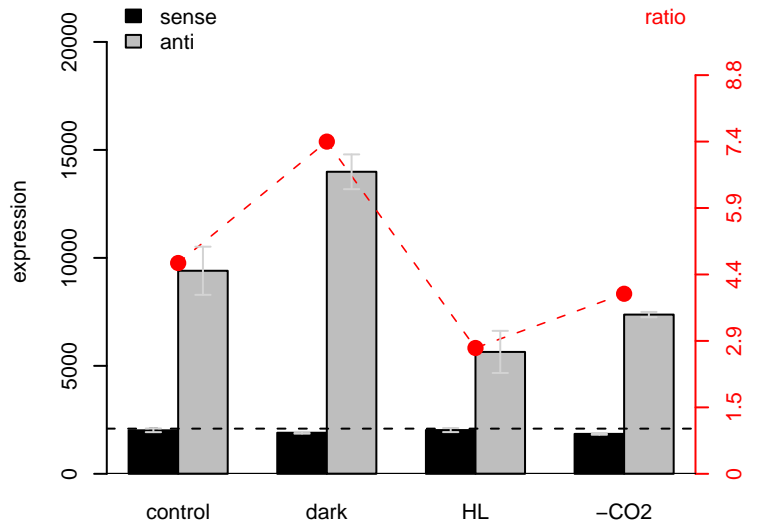
**slr1206****genome\_1269****slr1207****genome\_1271****slr1208****genome\_1277**

**slr1208****genome\_1277****cobN(slr1211)****genome\_1282****slr1213****genome\_1286**

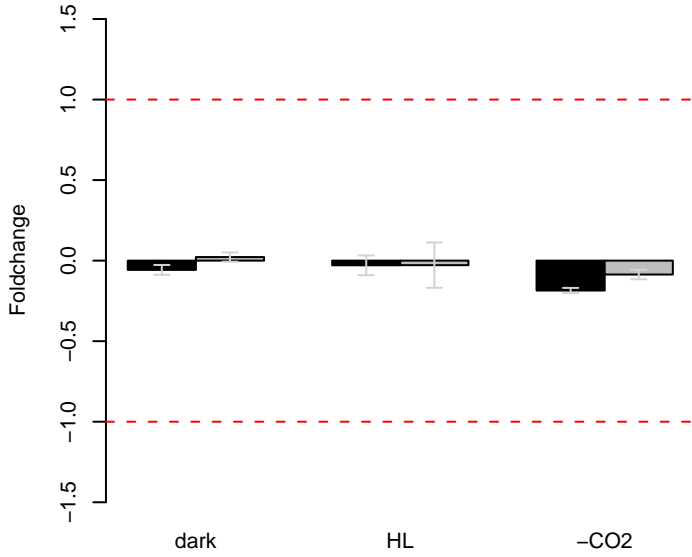
**mgtE(slr1216)**



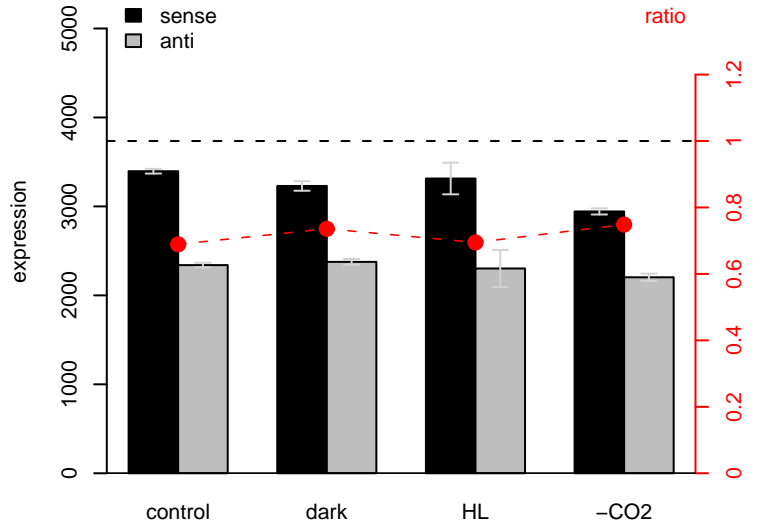
**genome\_1294**



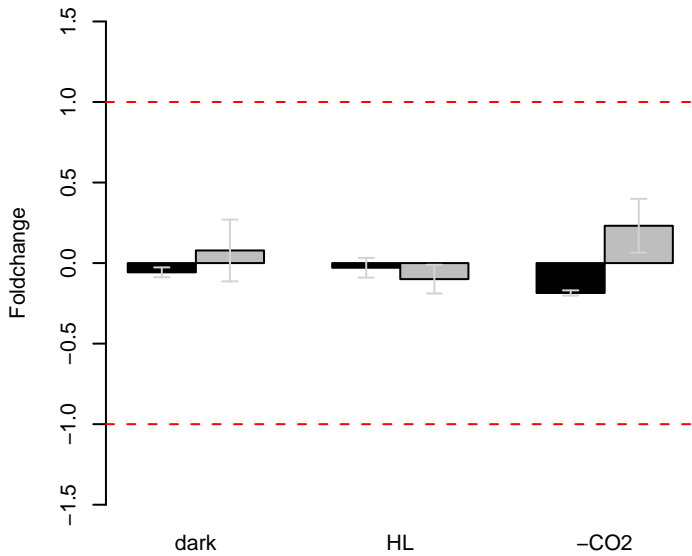
**slr2070**



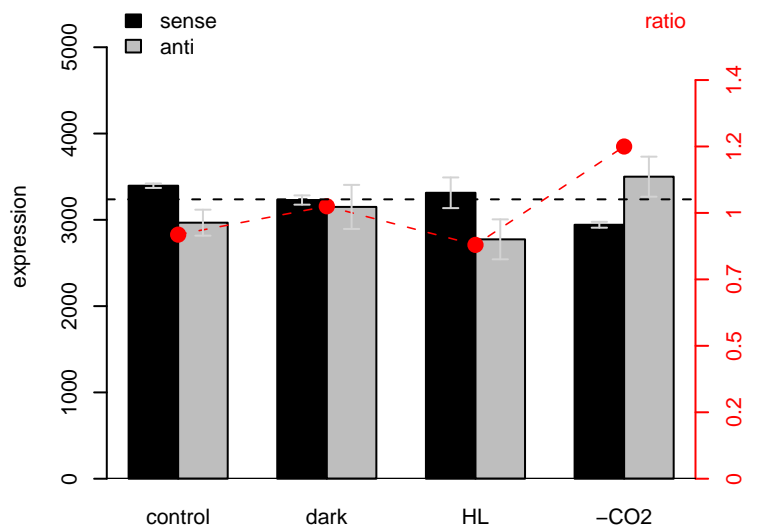
**genome\_1297**



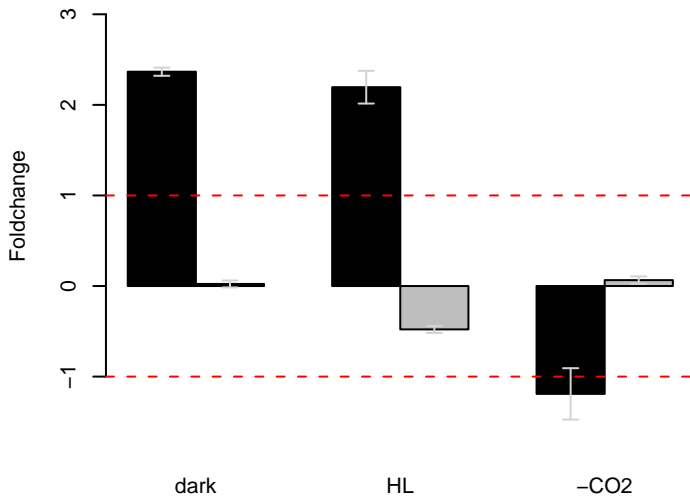
**slr2070**



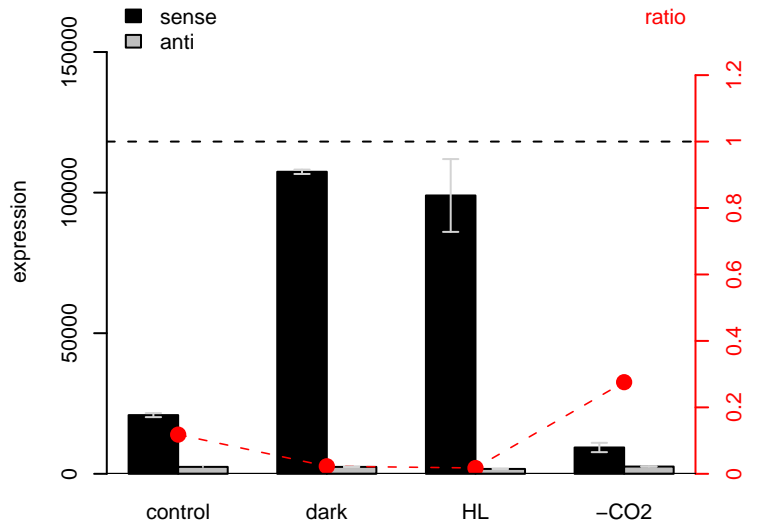
**genome\_1297**



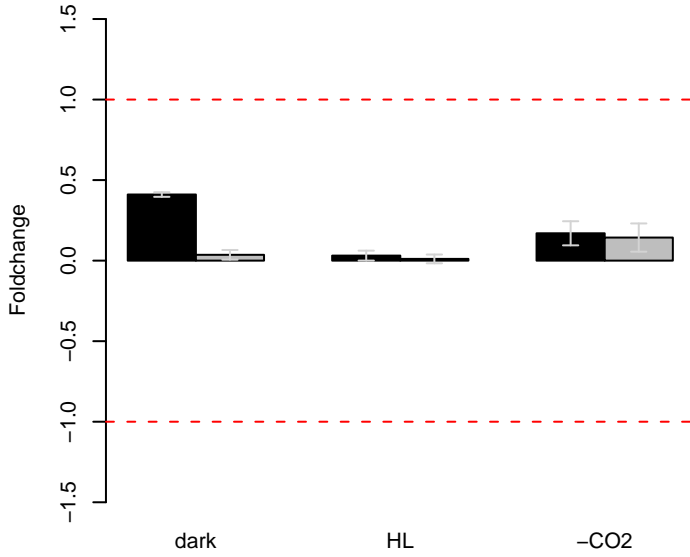
**groES(slr2075)**



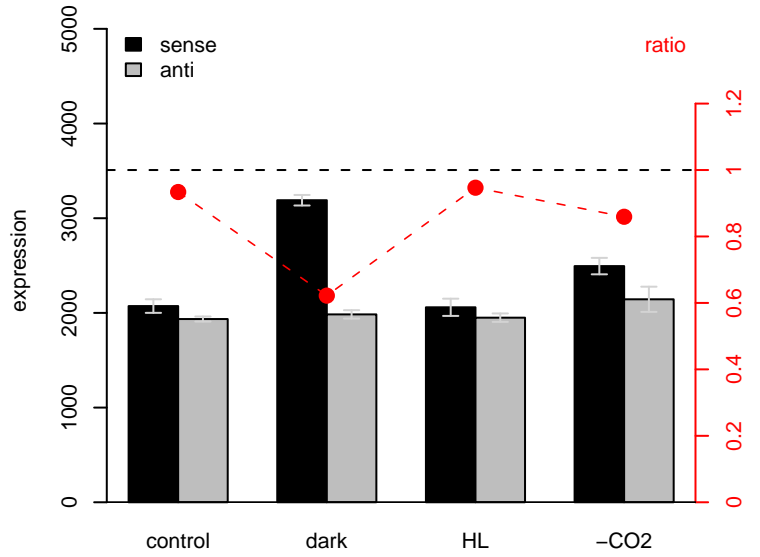
**genome\_1313**



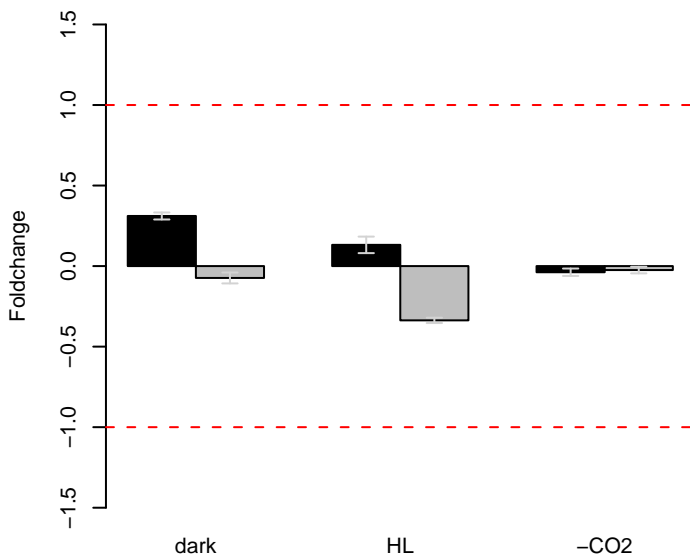
**slr2078**



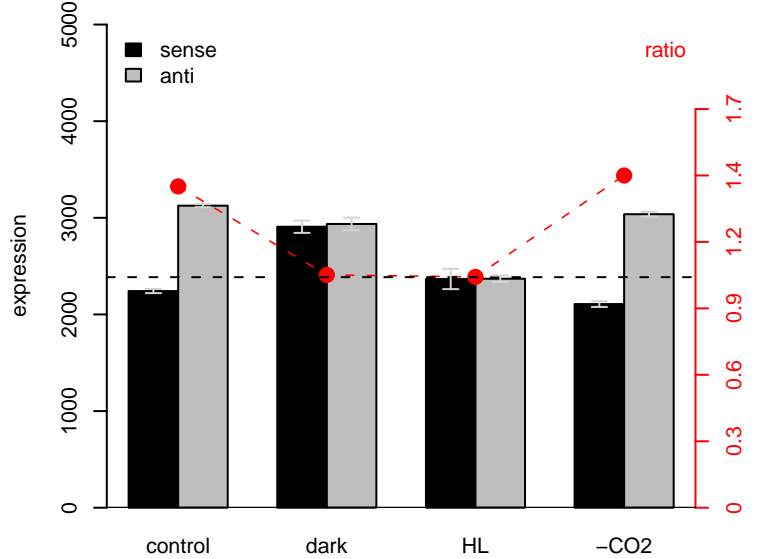
**genome\_1317**



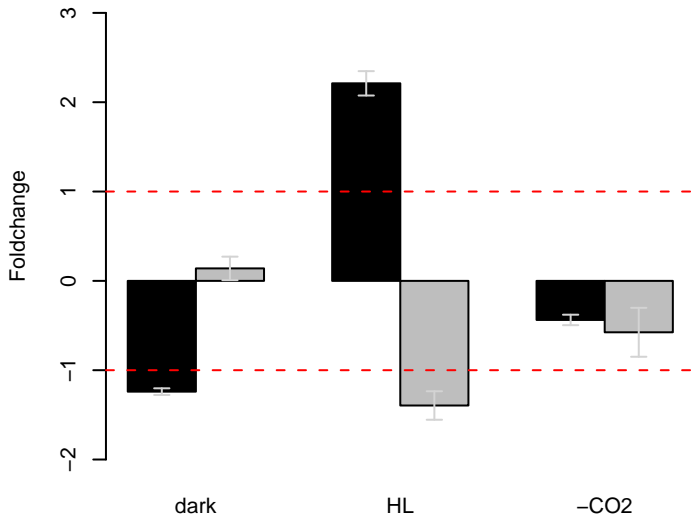
**ssl3712**



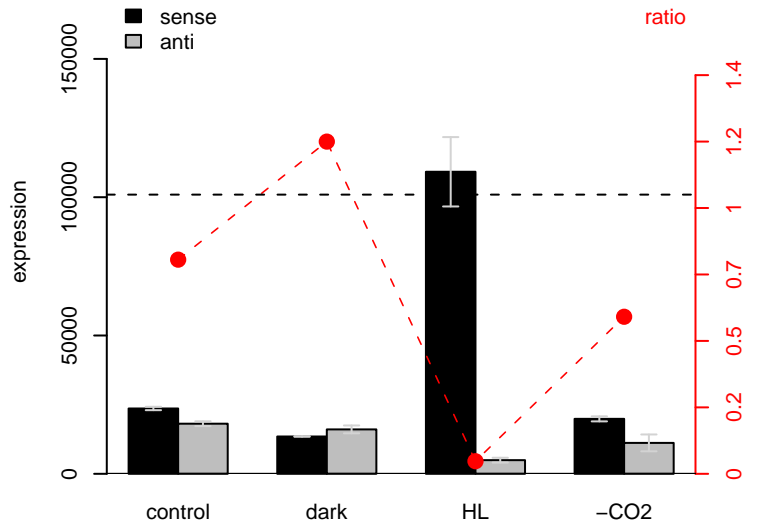
**genome\_1320**



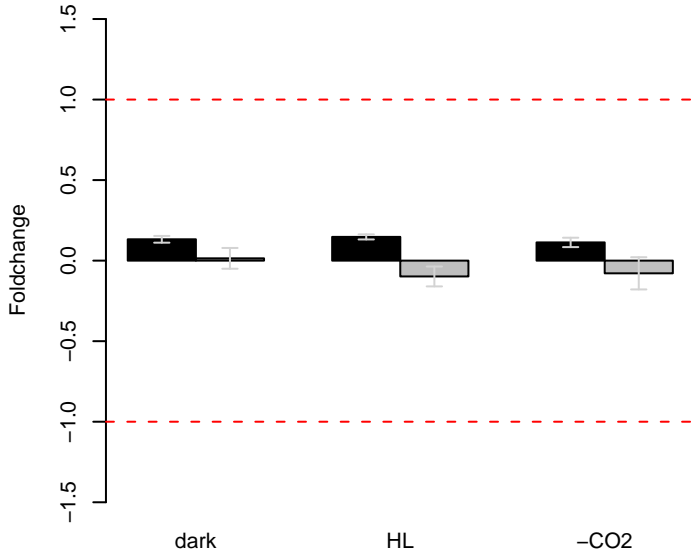
**rplA(sll1744)**



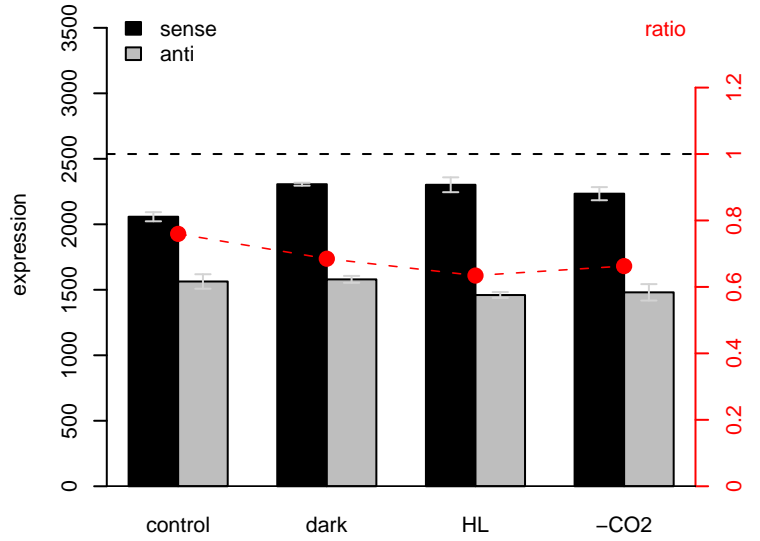
**genome\_1324**



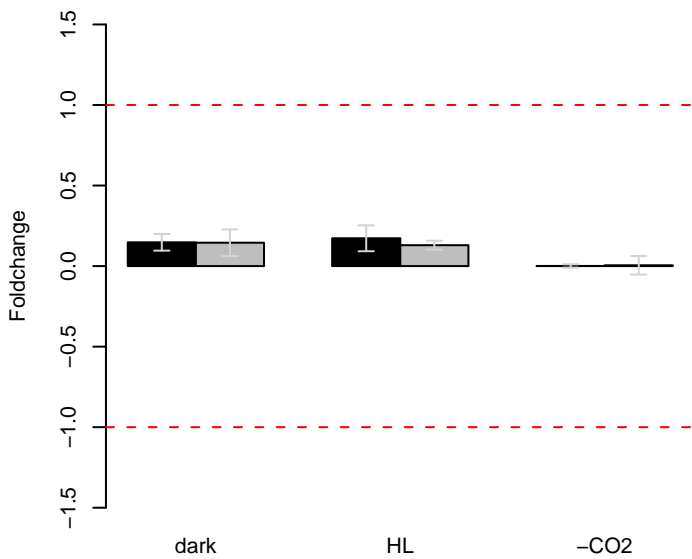
**sll0711**



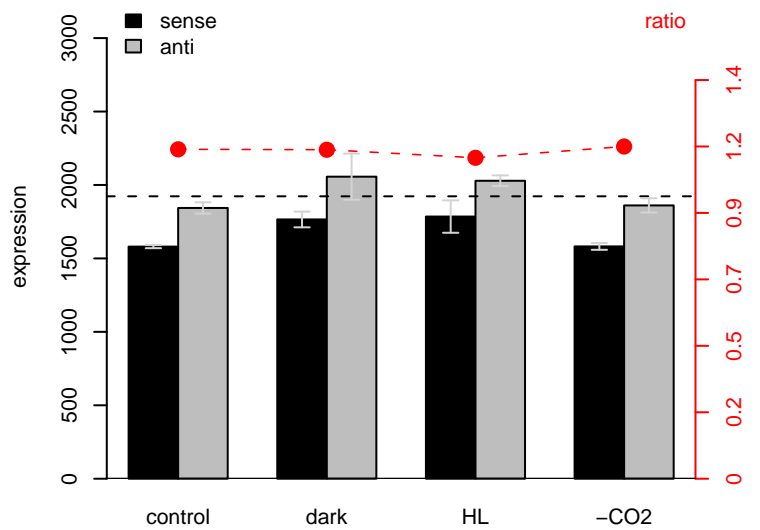
**genome\_132**



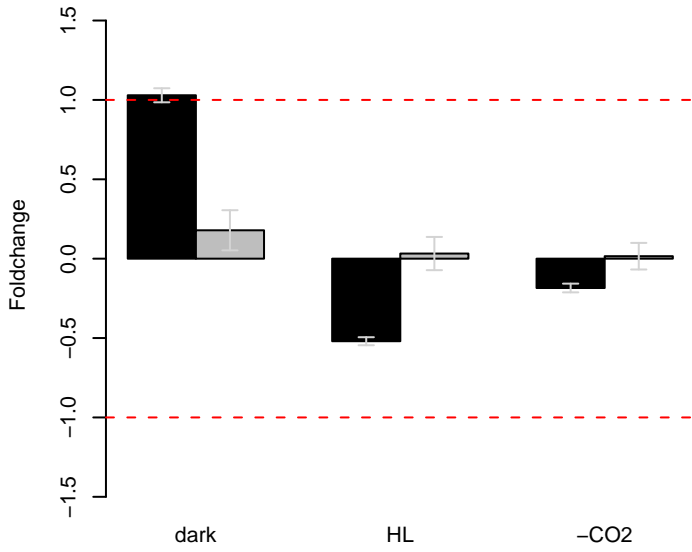
**slr1827**



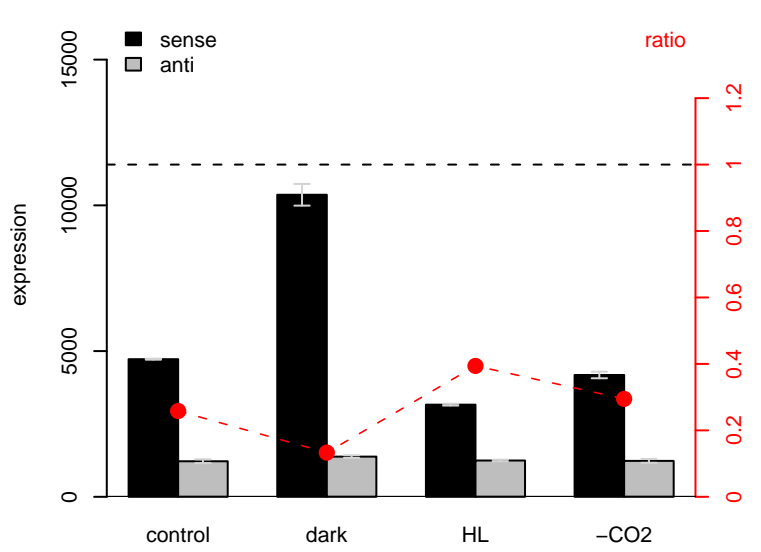
**genome\_1334**



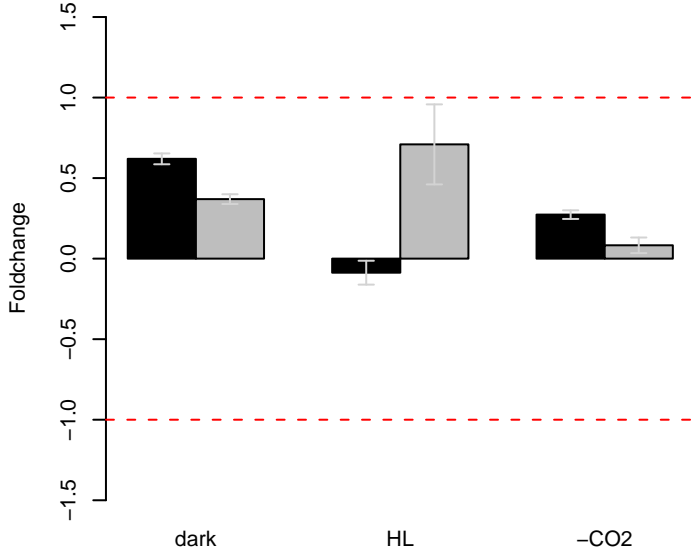
**sll1737**



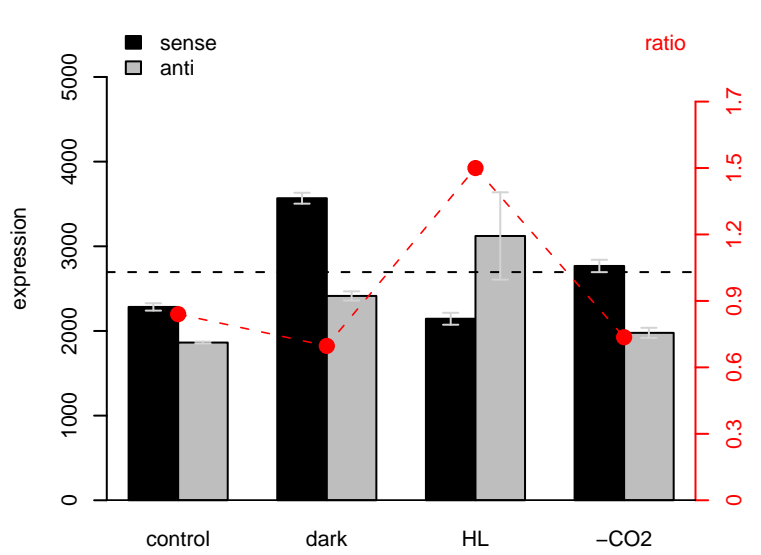
**genome\_1339**



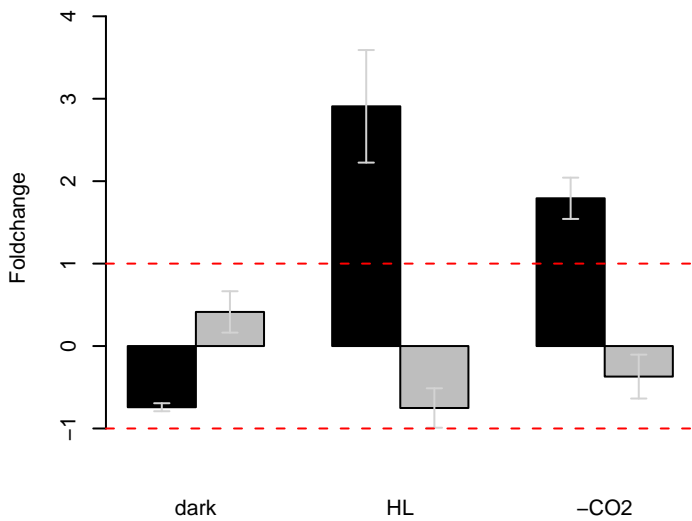
**phbC(slr1830)**



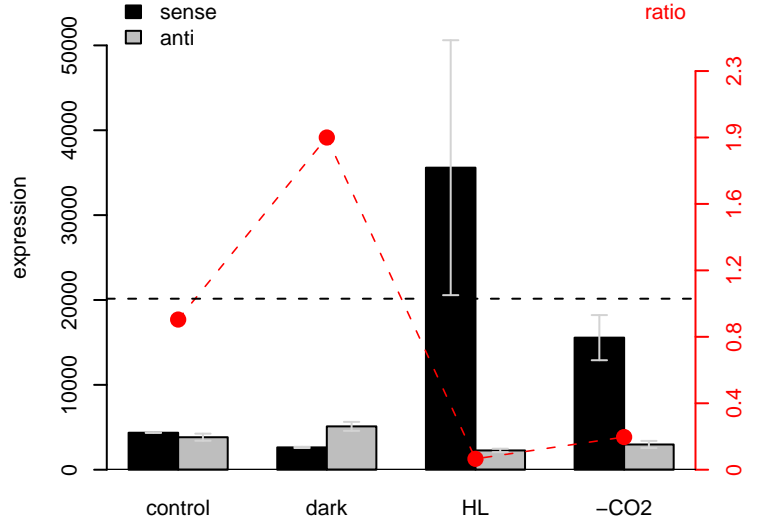
**genome\_1345**



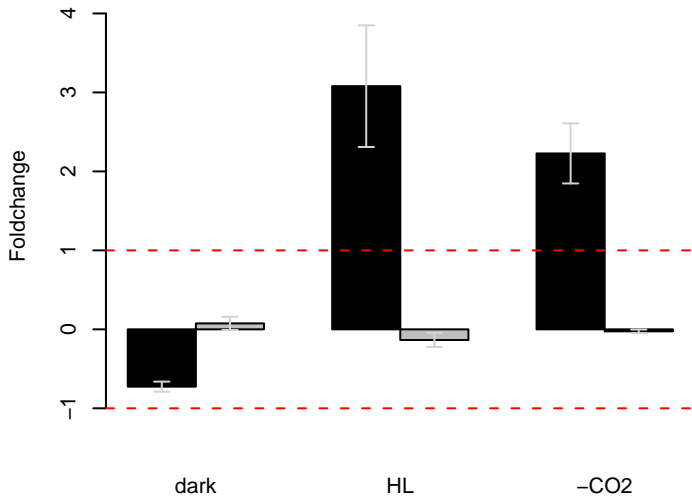
**sll1735**



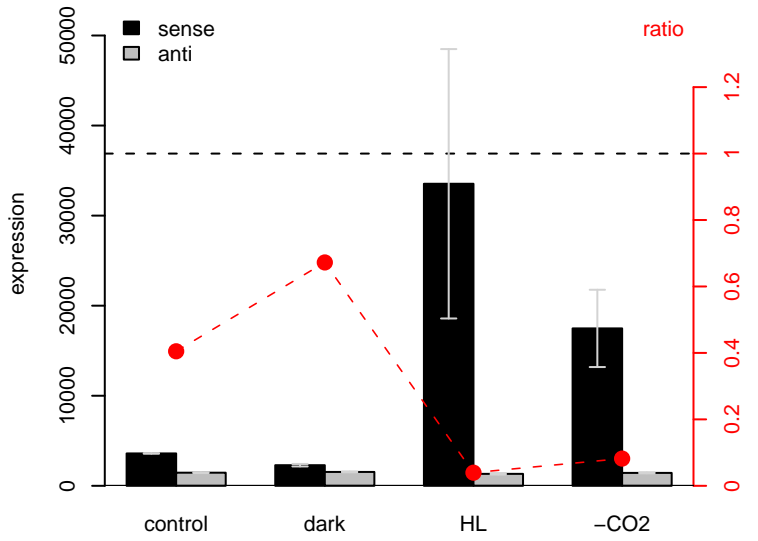
**genome\_1348**



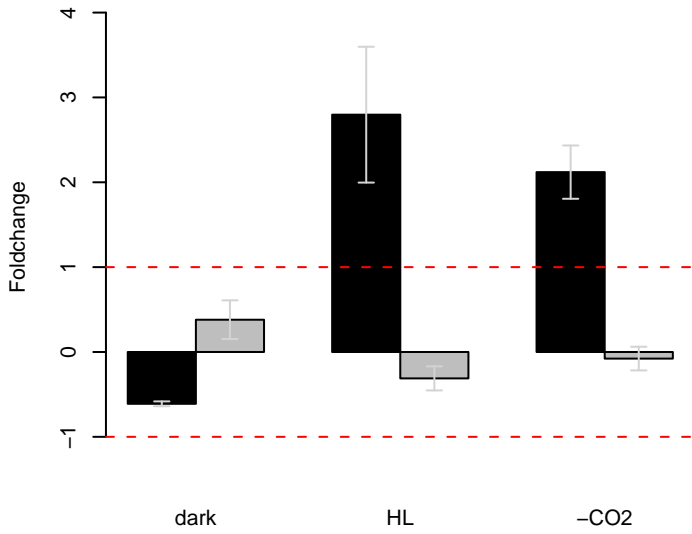
**sll1734**



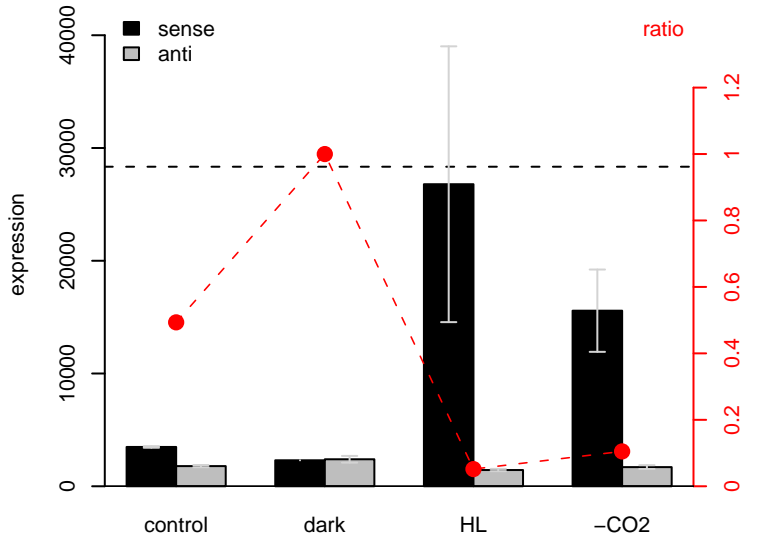
**genome\_1350**



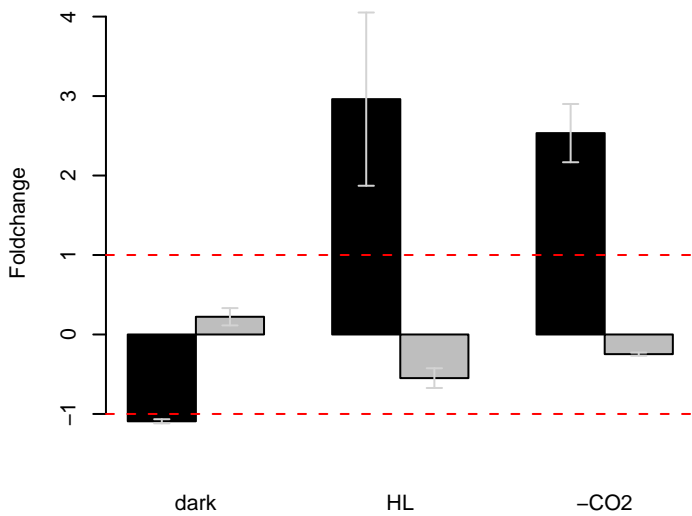
**ndhD3(sll1733)**



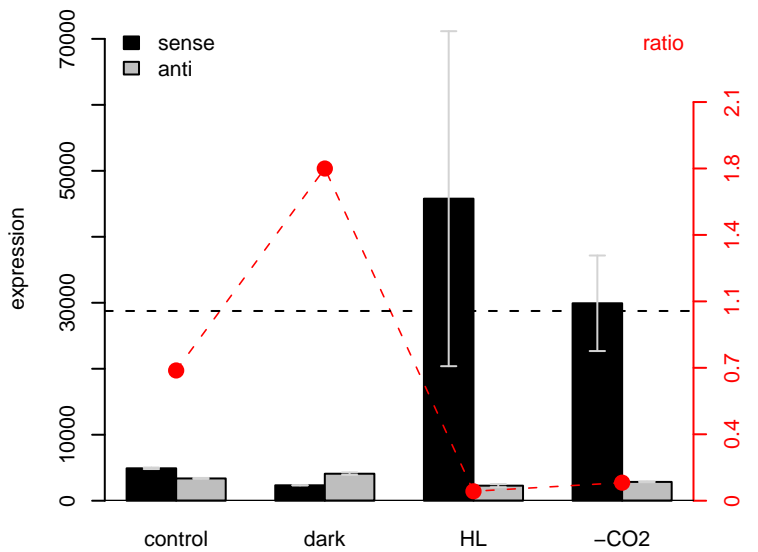
**genome\_1352**



**ndhF(sll1732)**

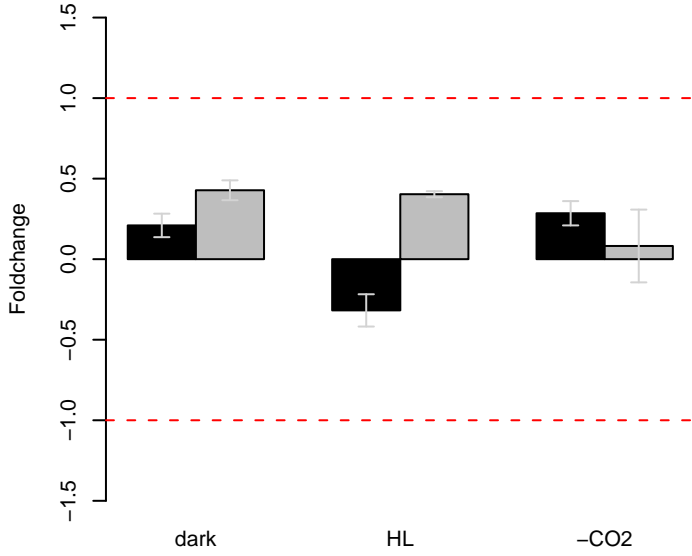


**genome\_1354**

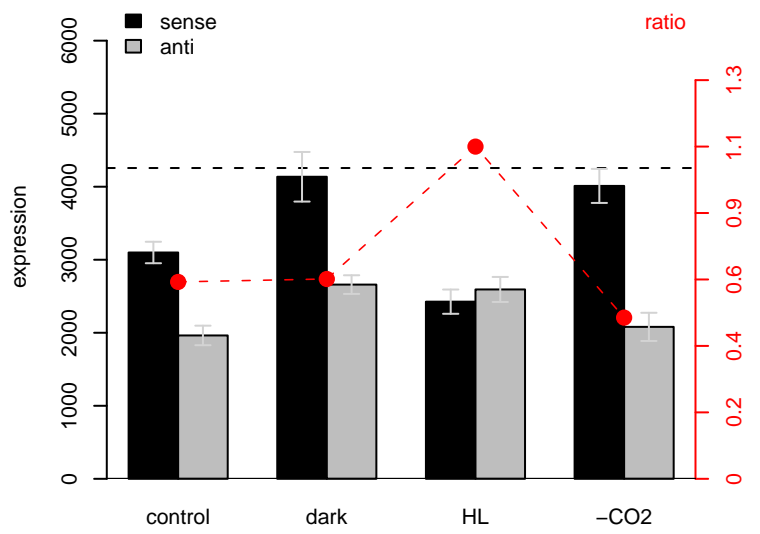




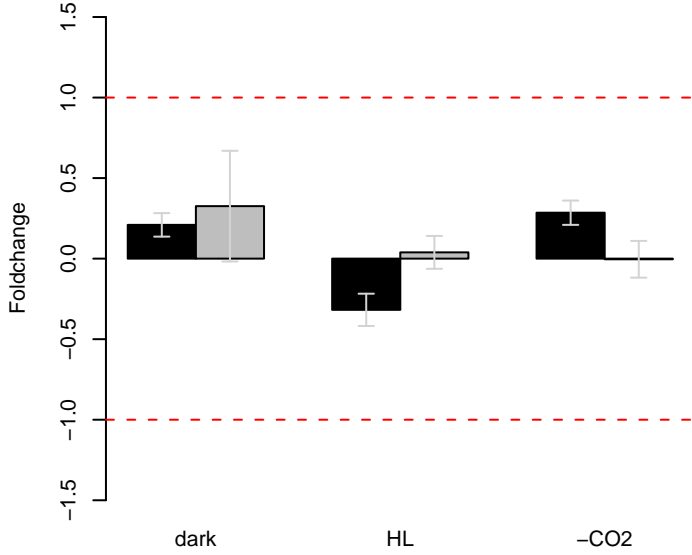
**sll1730**



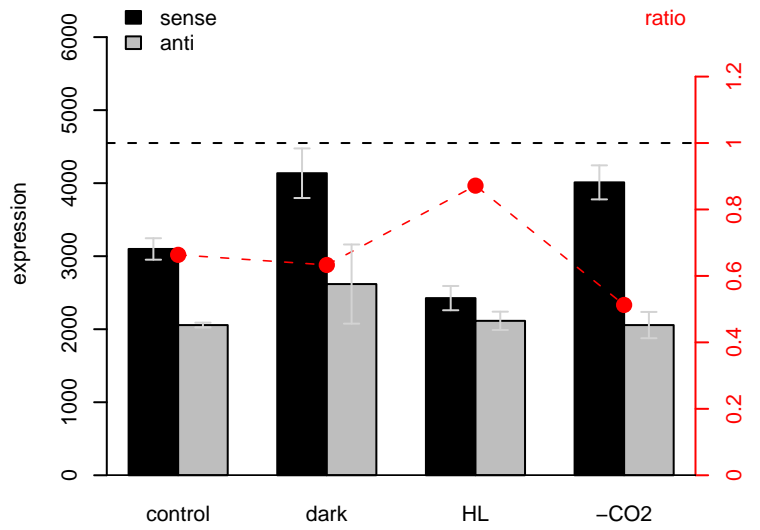
**genome\_1357**



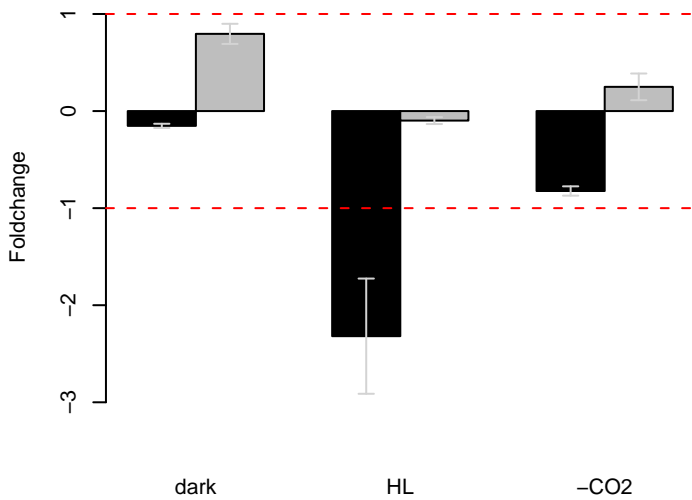
**sll1730**



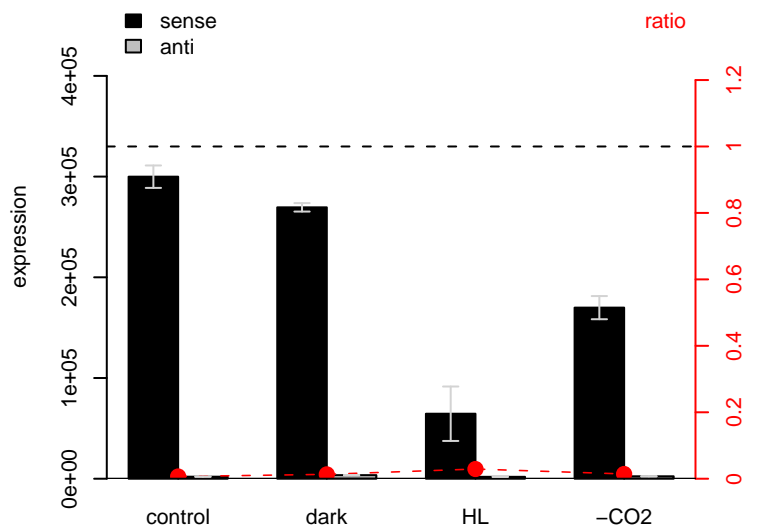
**genome\_1357**



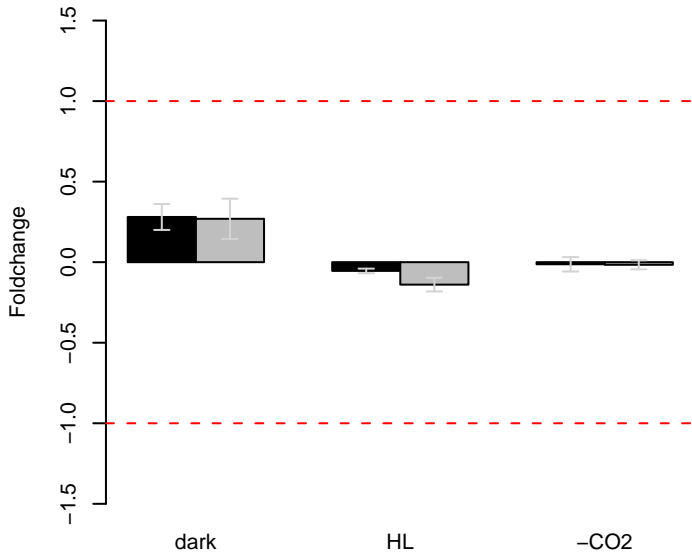
**psaB(slr1835)**



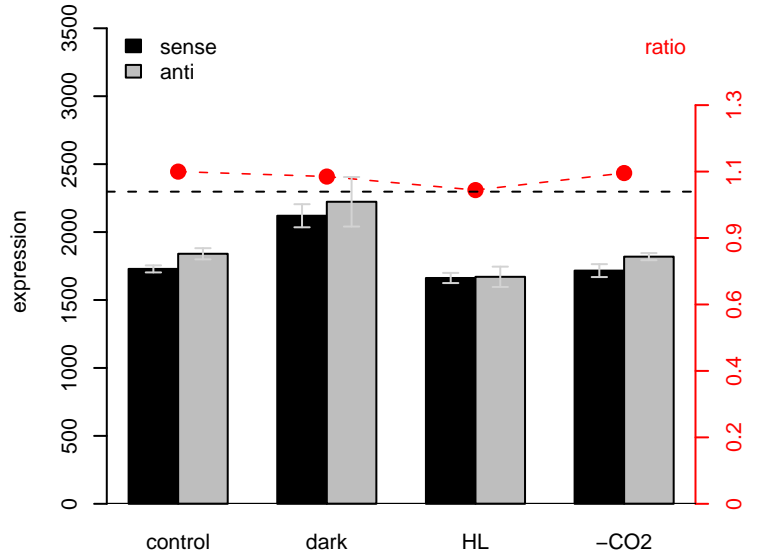
**genome\_1364**



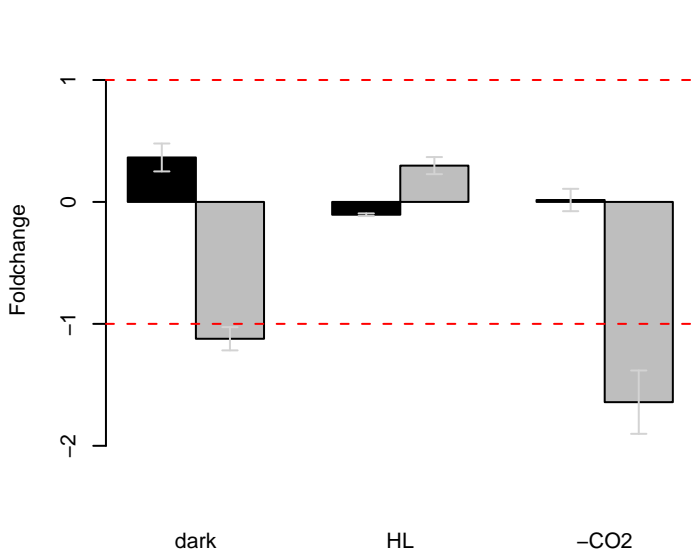
**sll1726**



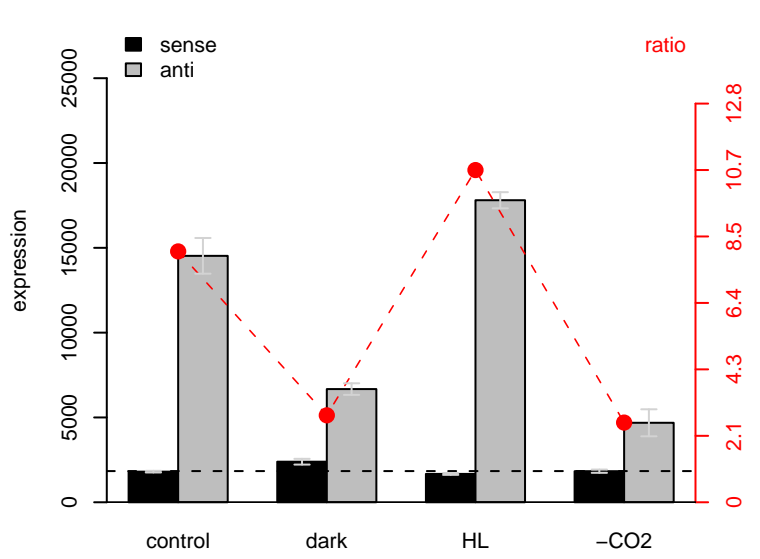
**genome\_1367**



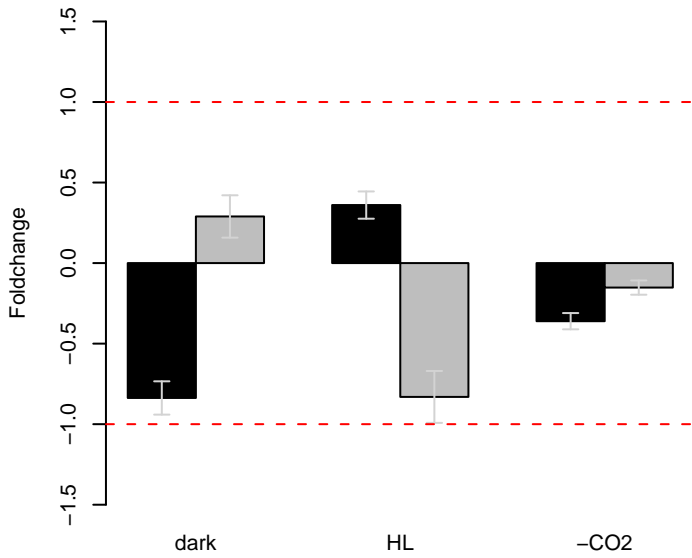
**sll1723**



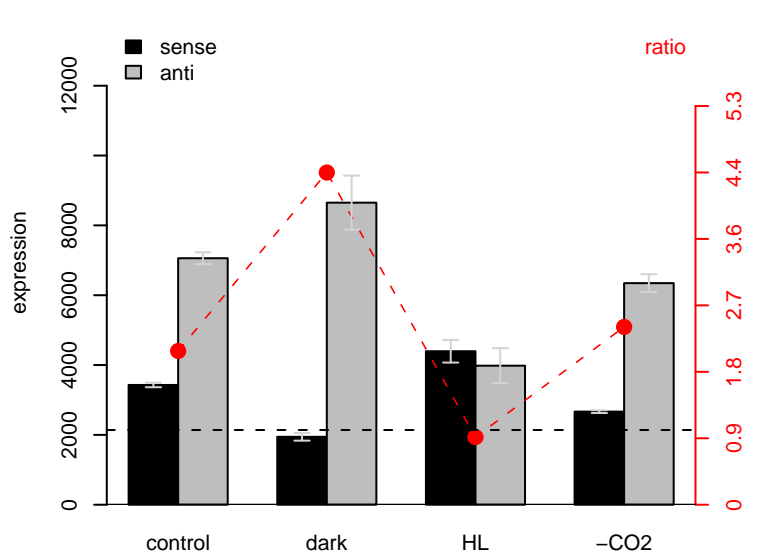
**genome\_1371**



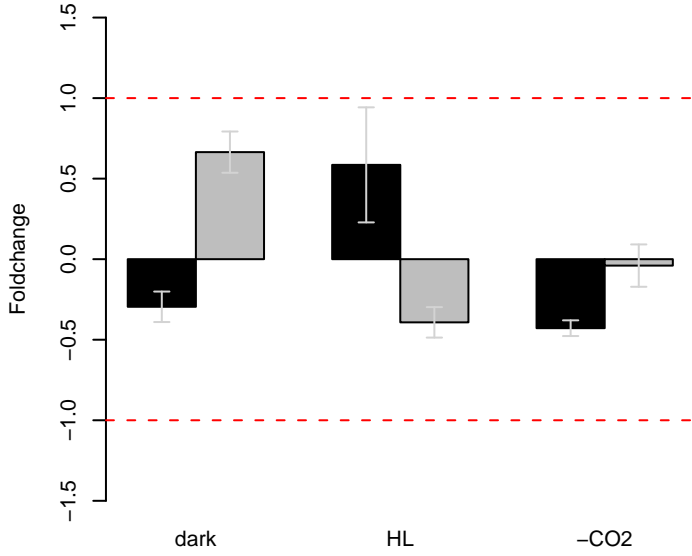
**pdhB(sll1721)**



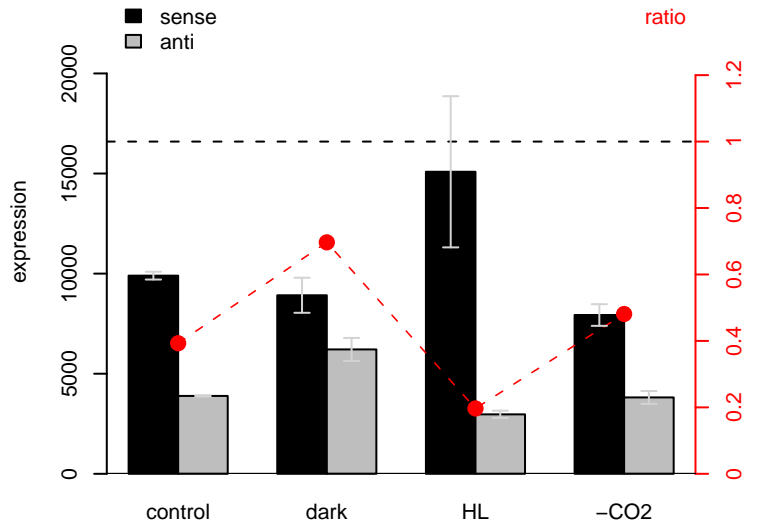
**genome\_1375**



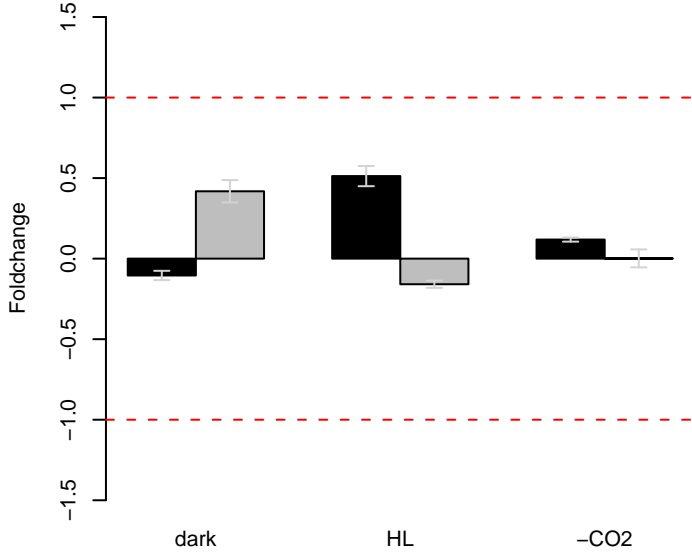
**ccmK(slr1839)**



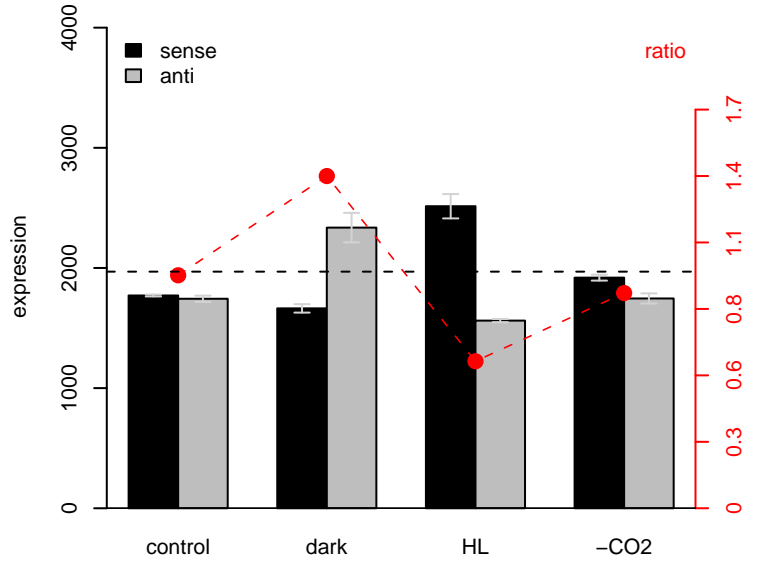
**genome\_1378**



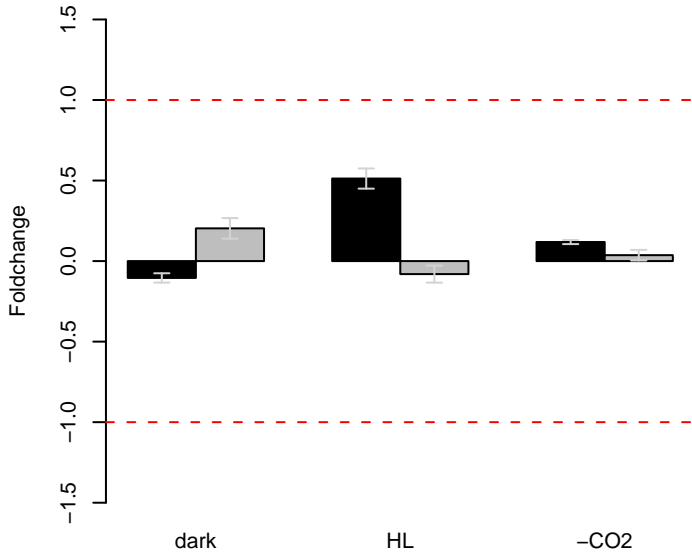
**uvrA(slr1844)**



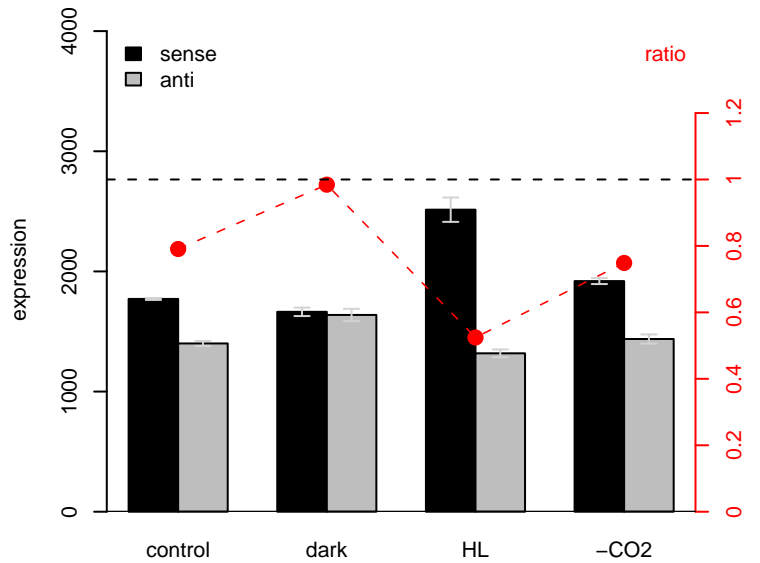
**genome\_1386**

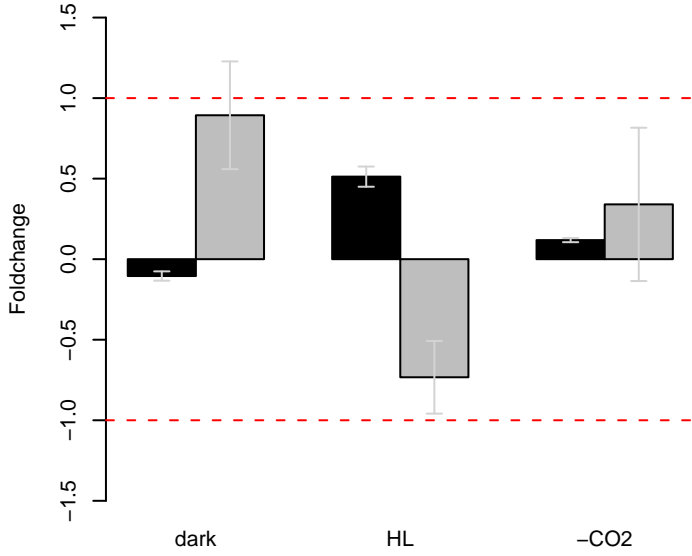
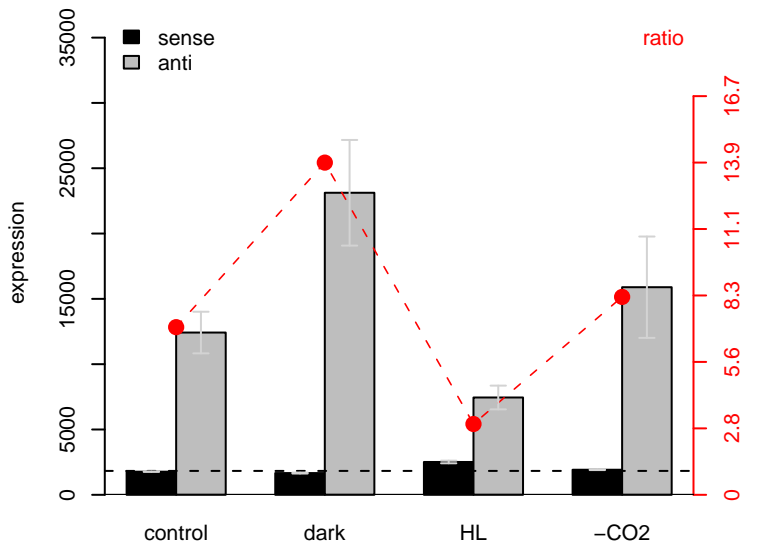
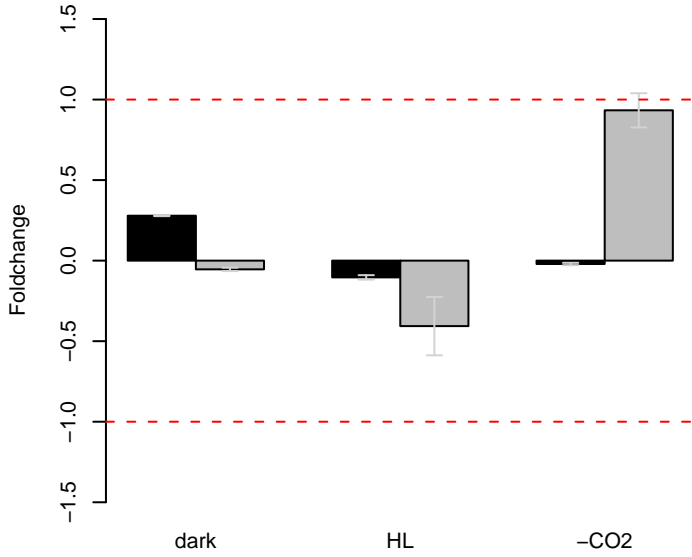
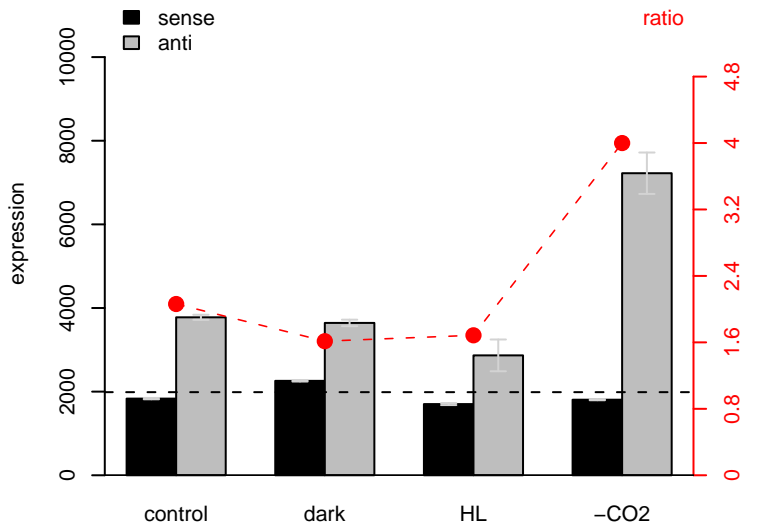
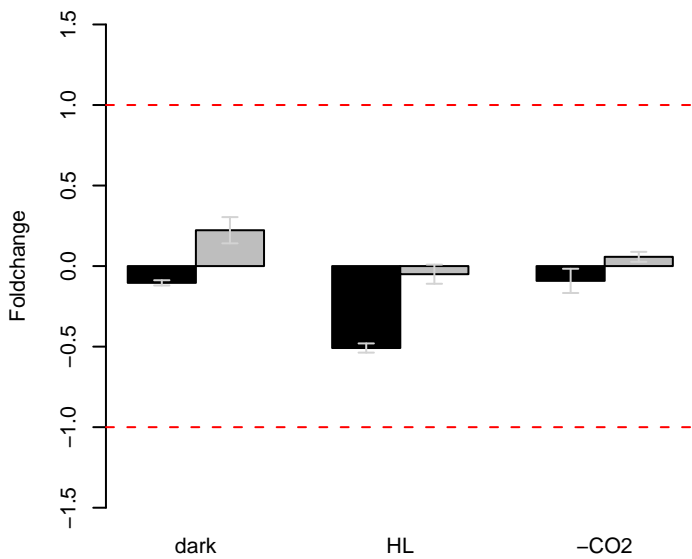
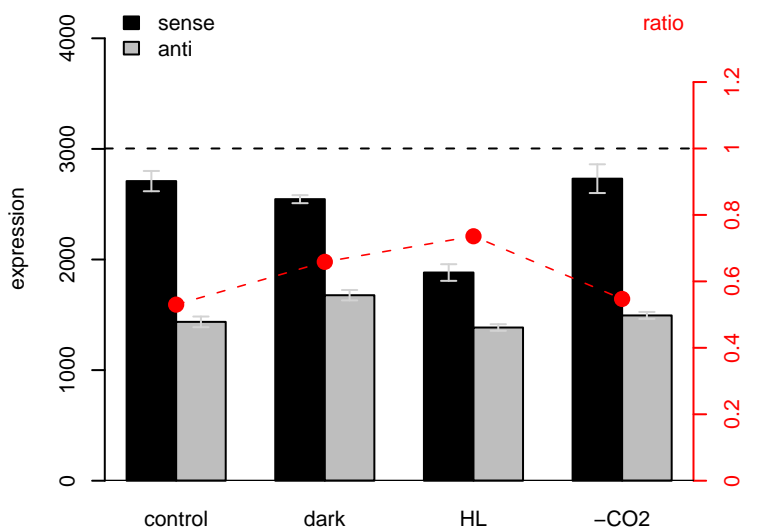


**uvrA(slr1844)**

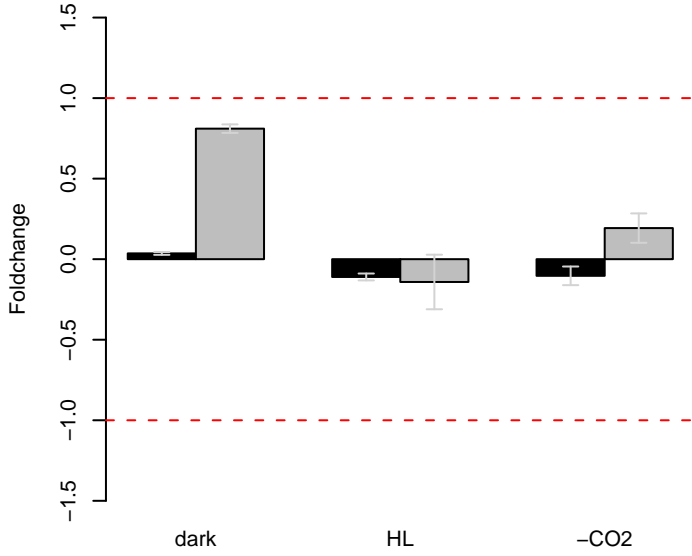


**genome\_1386**

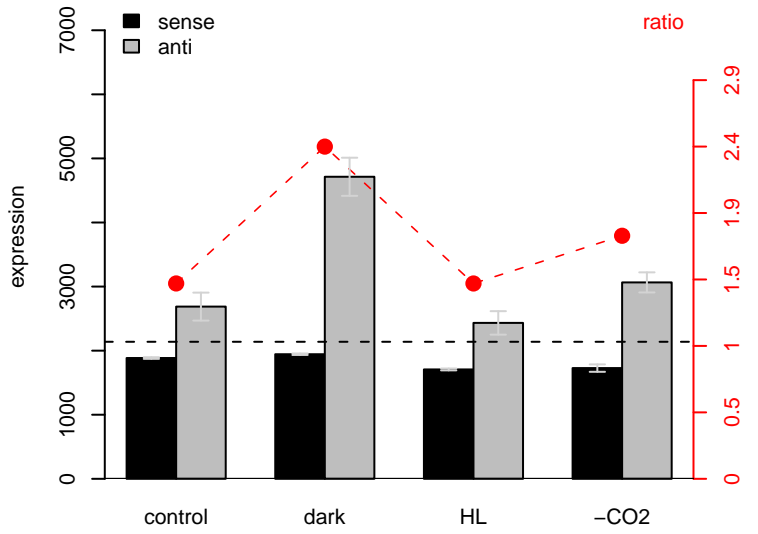


**uvrA(slr1844)****genome\_1386****slI1469****genome\_1400****slr1535****genome\_1402**

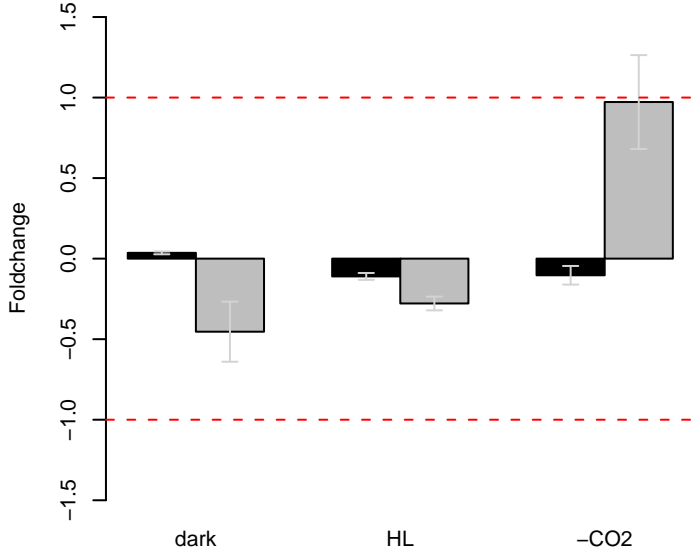
**recQ(slr1536)**



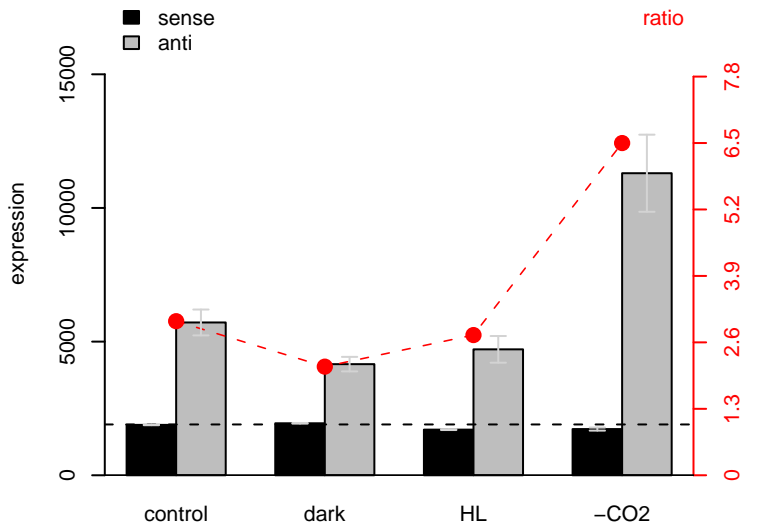
**genome\_1404**



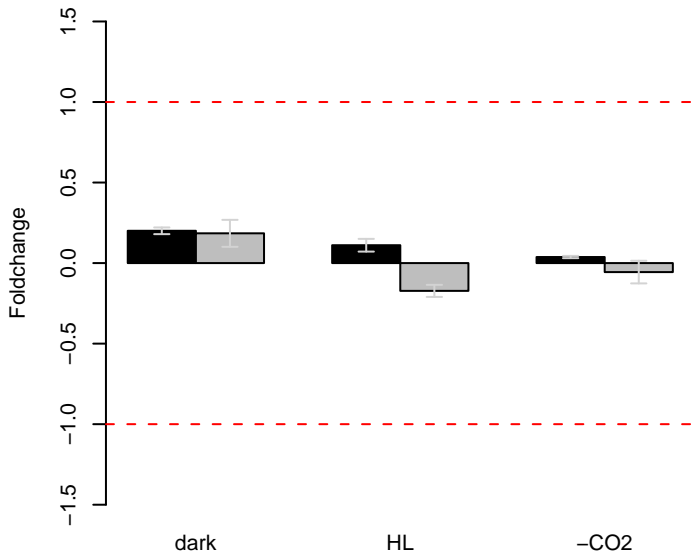
**recQ(slr1536)**



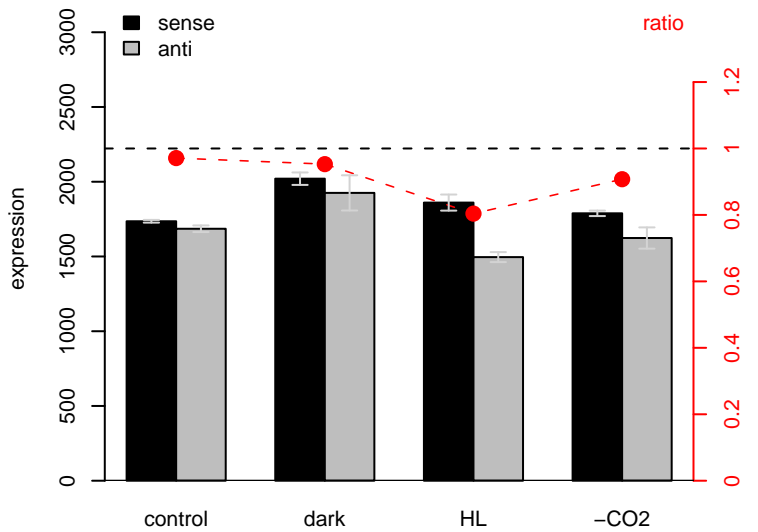
**genome\_1404**

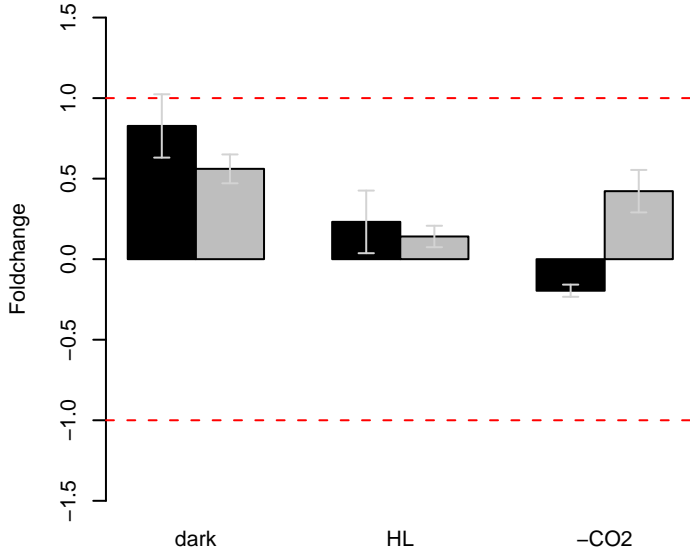
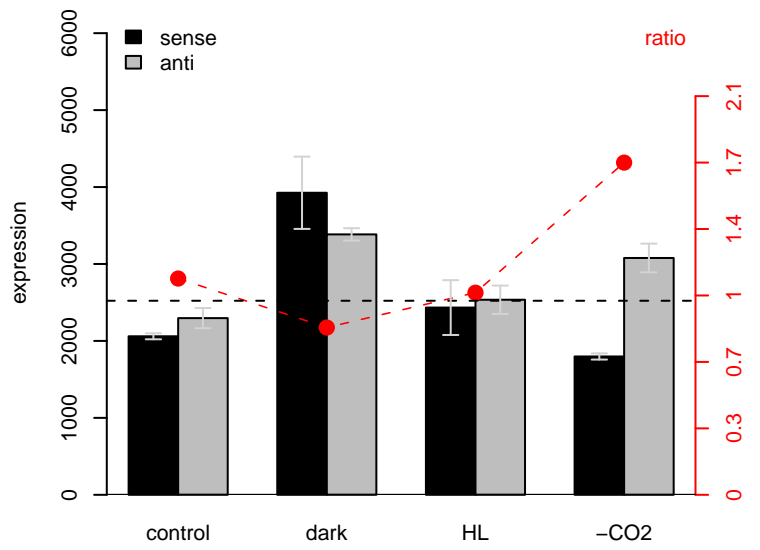
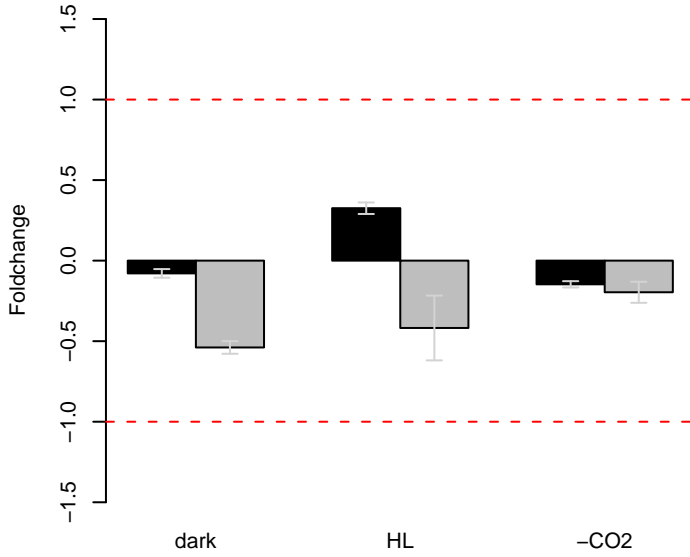
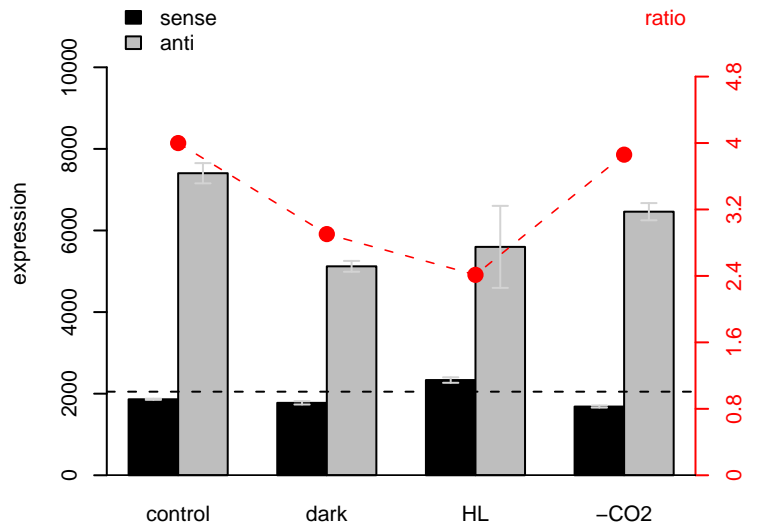
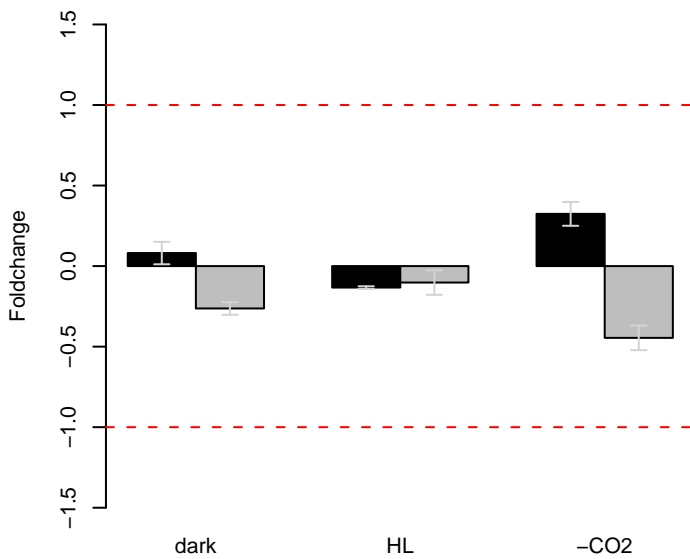
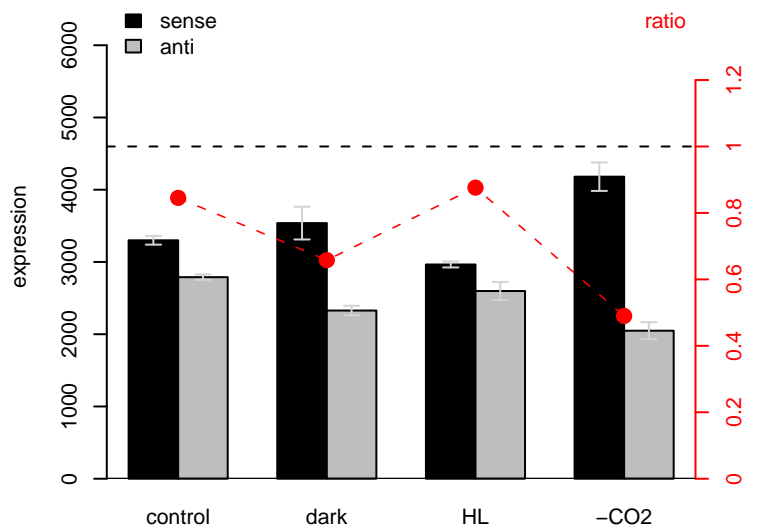


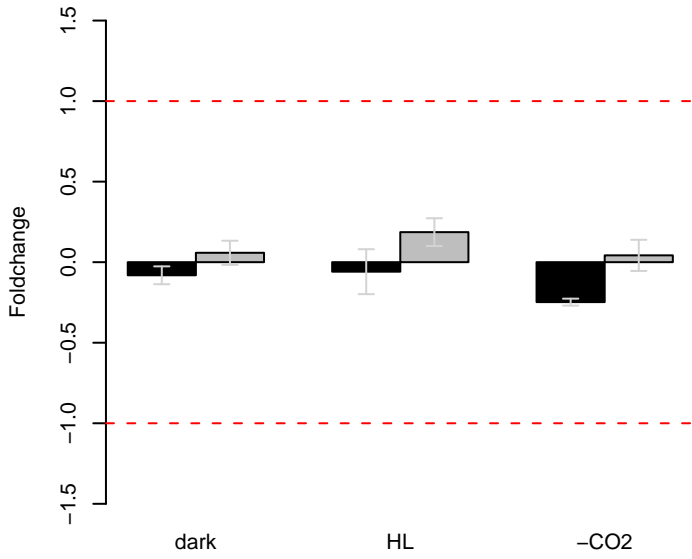
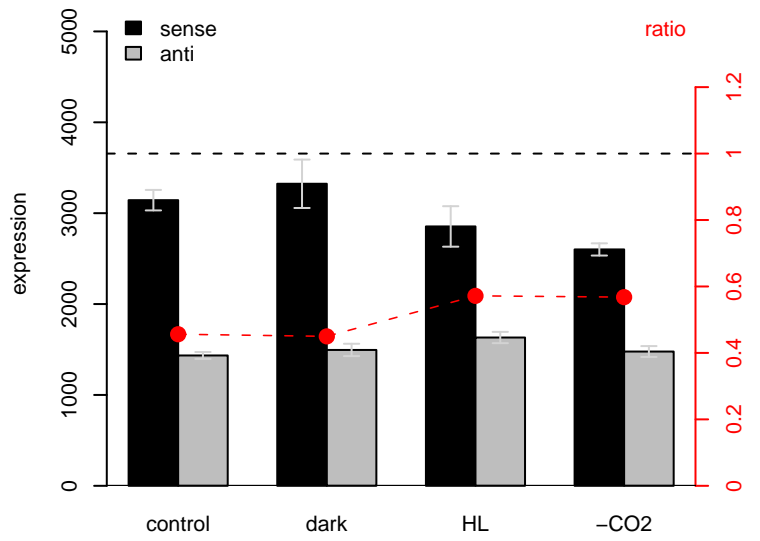
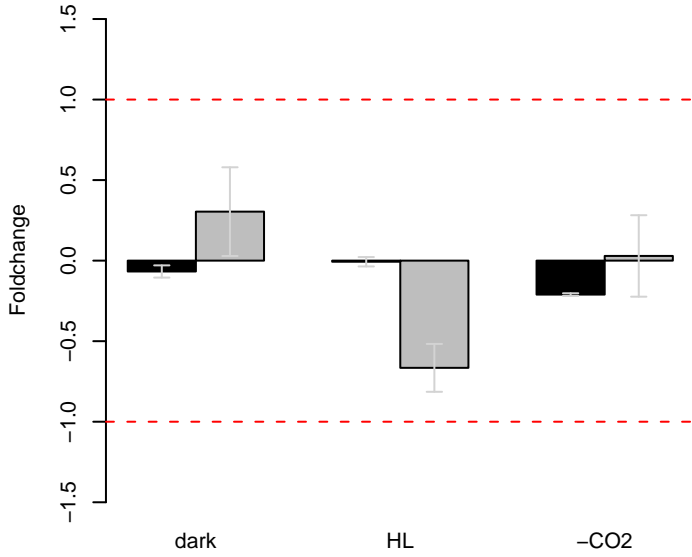
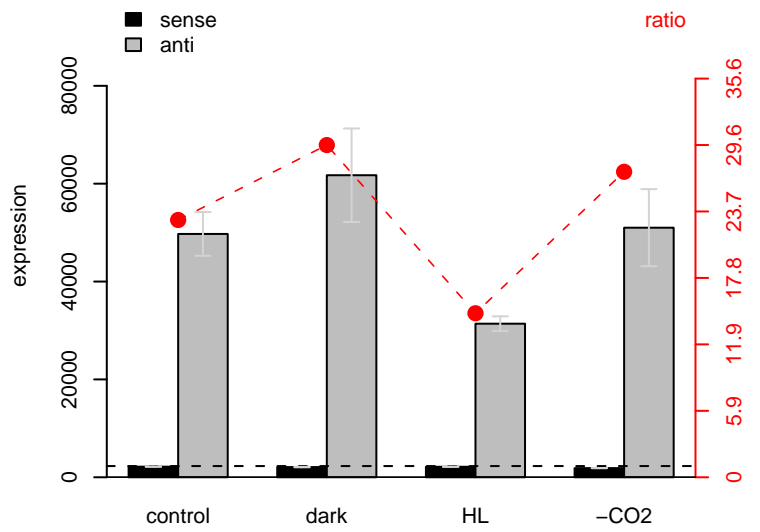
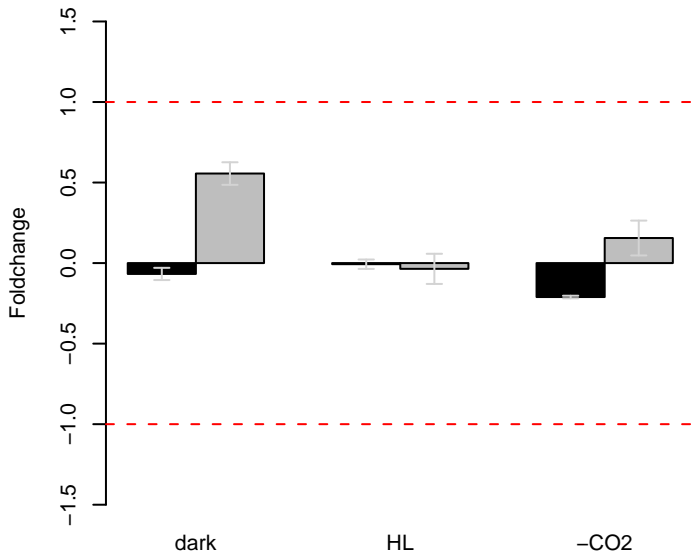
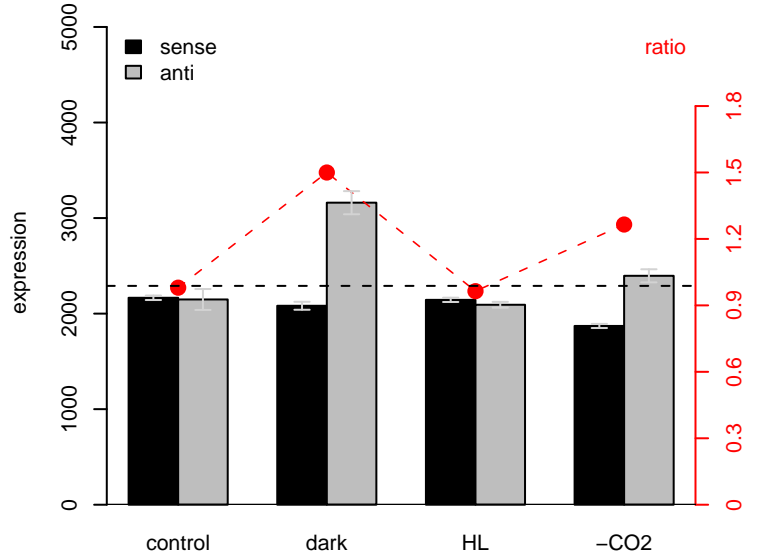
**cbiD(slr1538)**

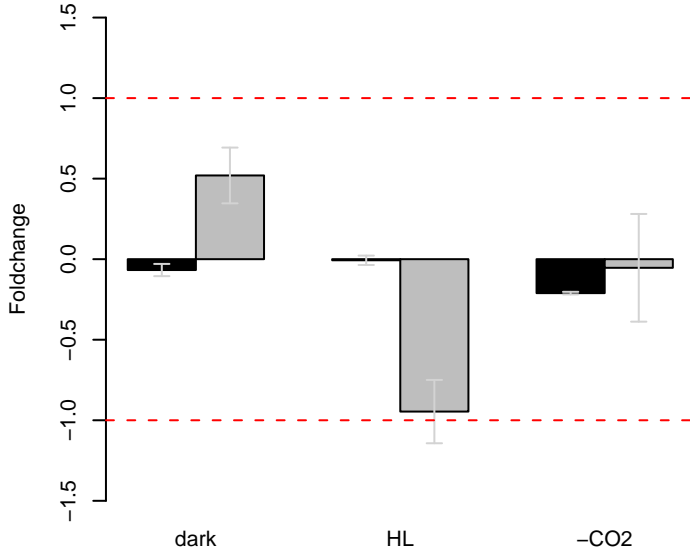
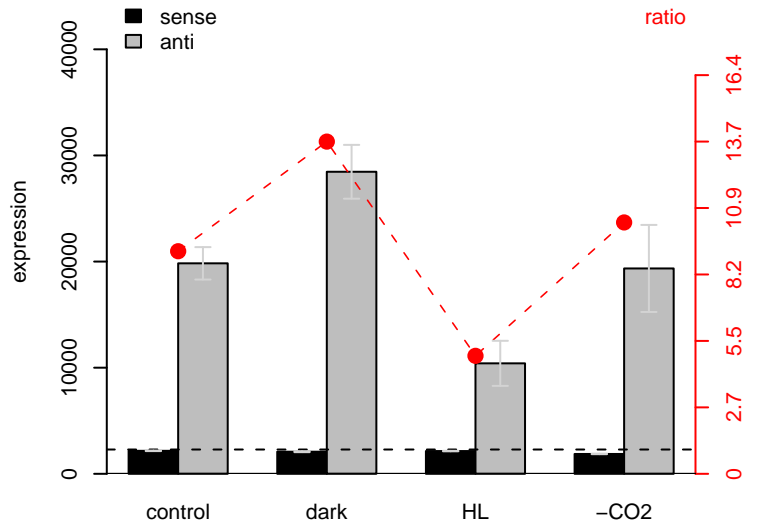
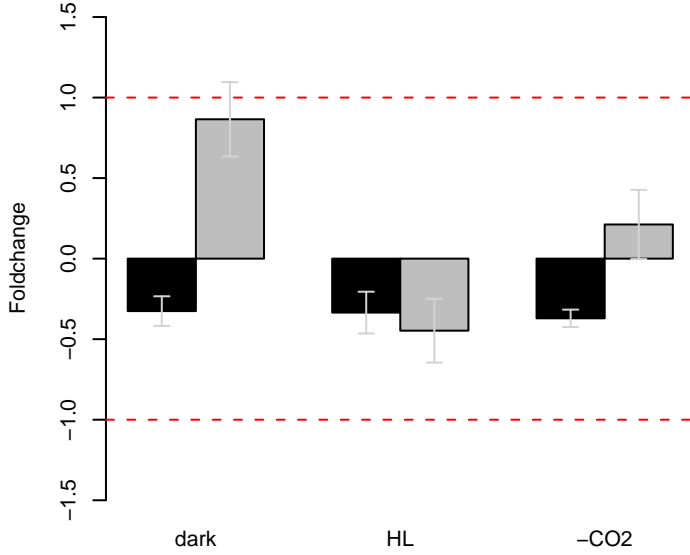
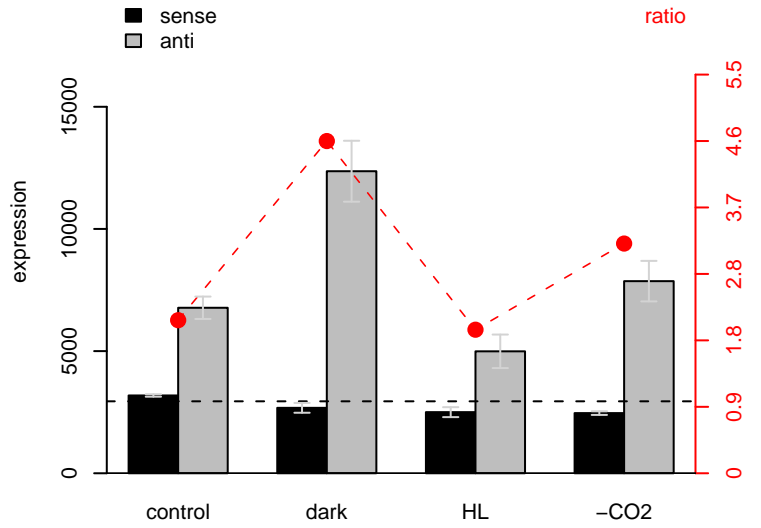
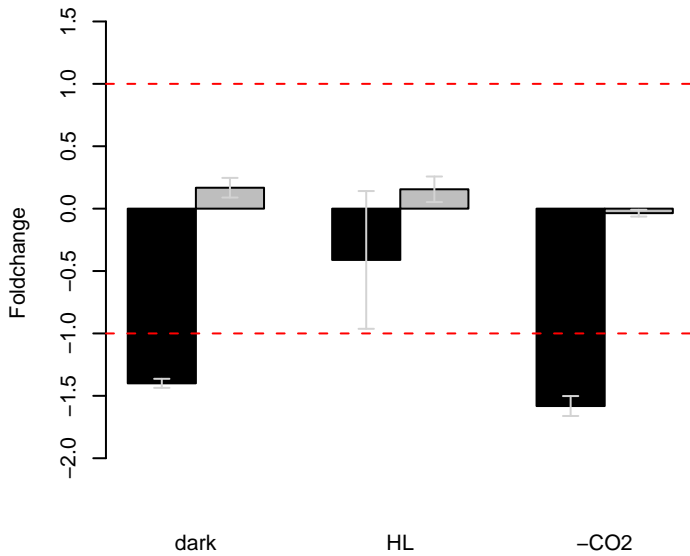
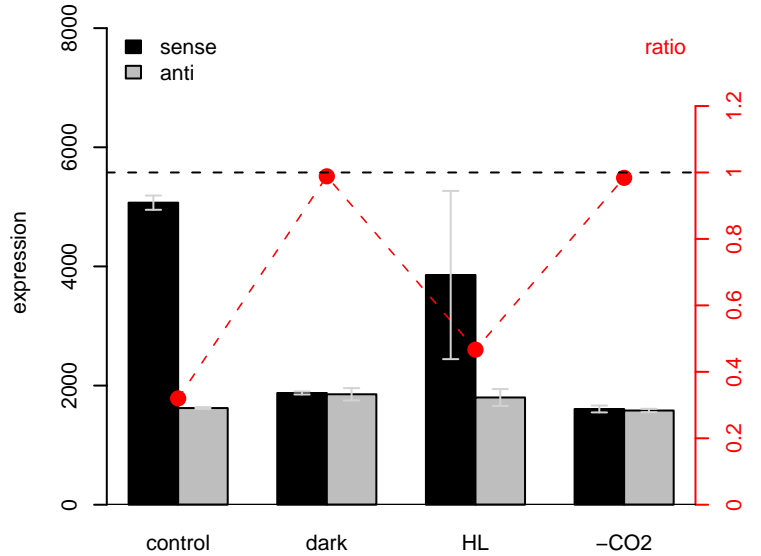


**genome\_1409**



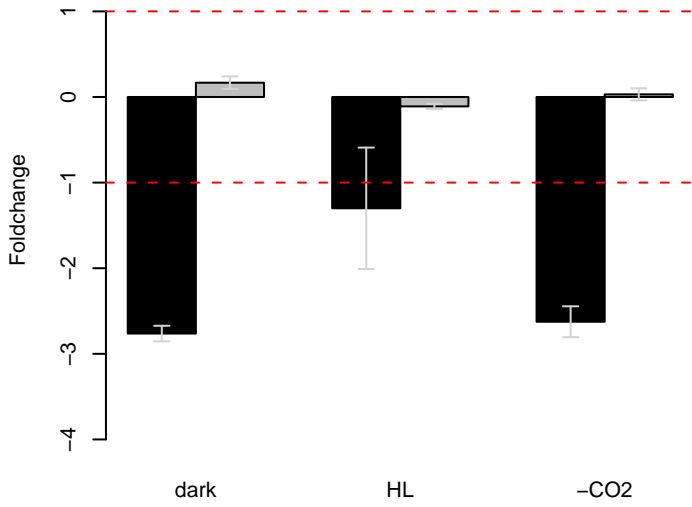
**slr1547****genome\_1422****sll1464****genome\_1427****sll1461****genome\_1433**

**sll1456****genome\_1441****slr1552****genome\_1443****slr1552****genome\_1443**

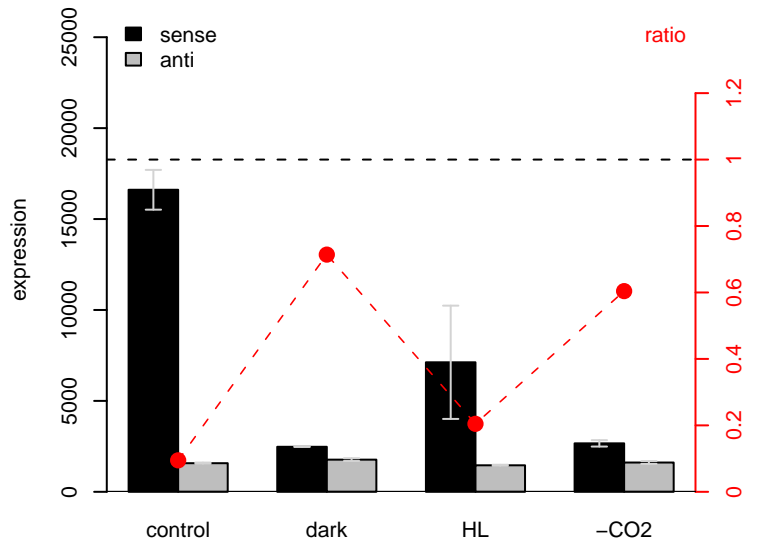
**slr1552****genome\_1443****slr0727****genome\_144****narB(sll1454)****genome\_1451**



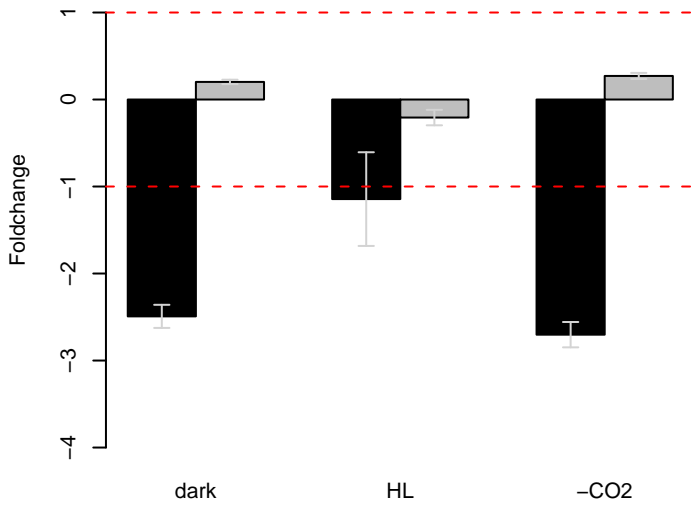
**nrtC(sll1452)**



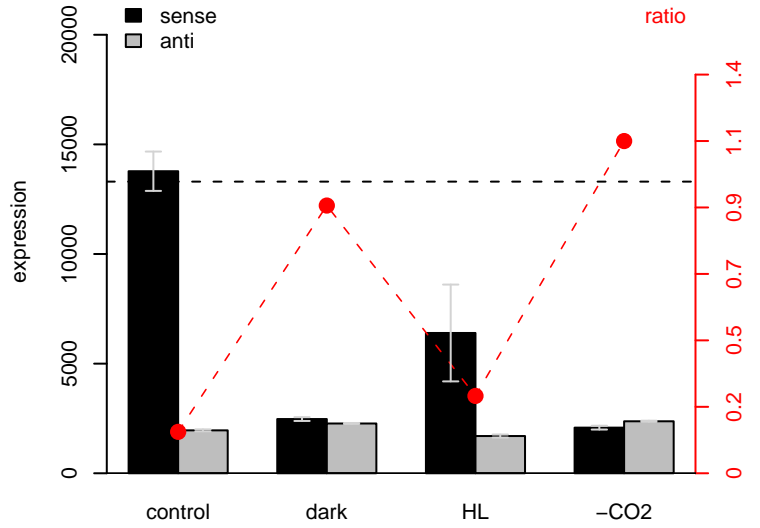
**genome\_1453**



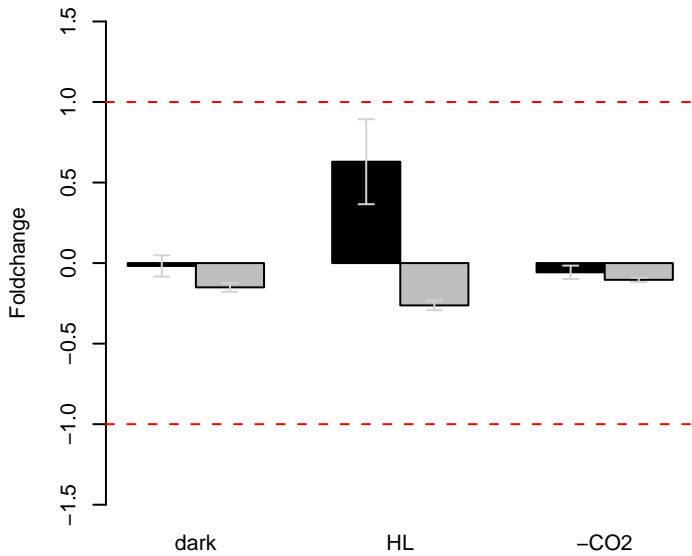
**nrtA(sll1450)**



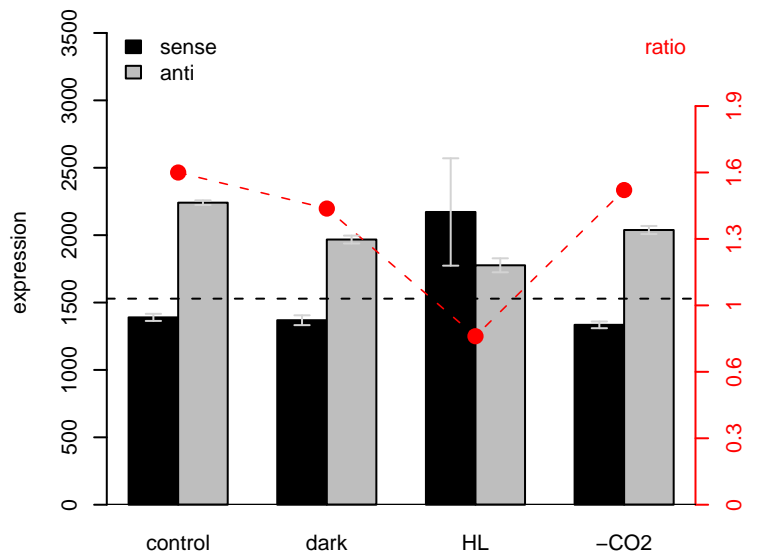
**genome\_1456**



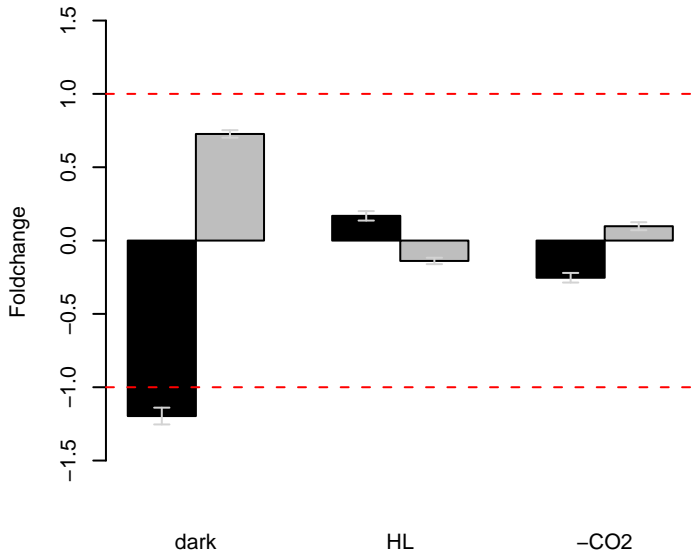
**sll1634**



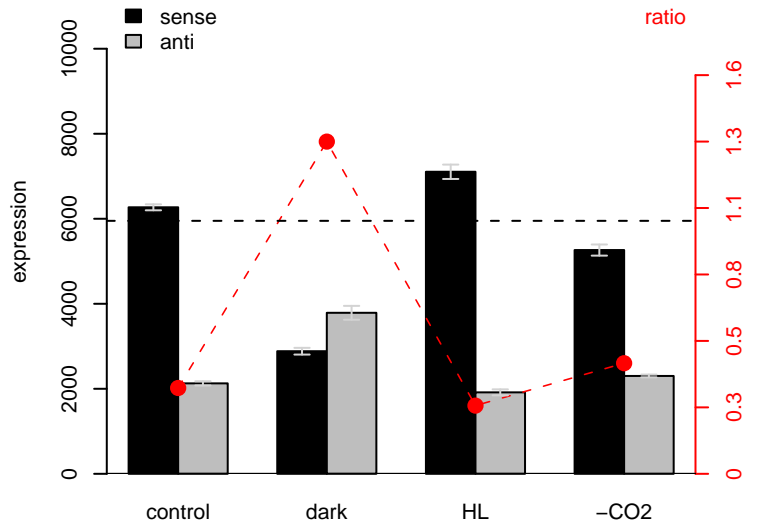
**genome\_1458**



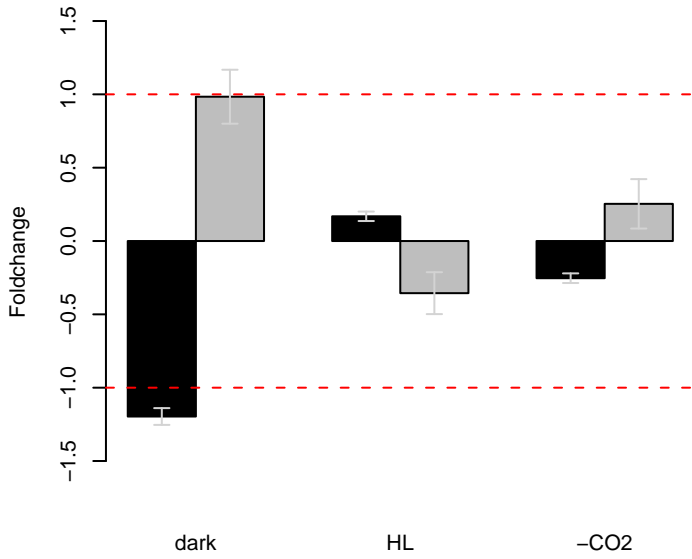
**ftsZ(sll1633)**



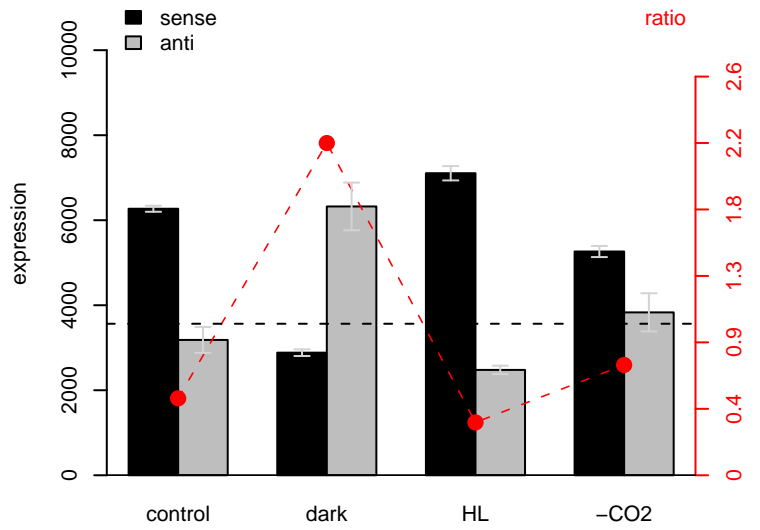
**genome\_1462**



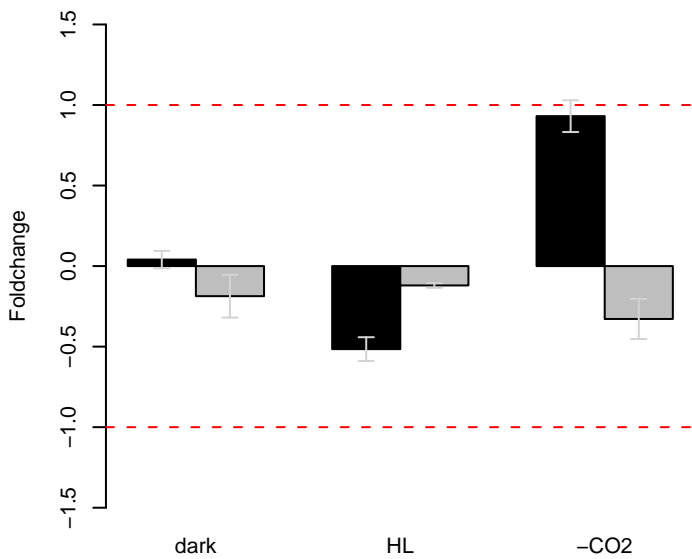
**ftsZ(sll1633)**



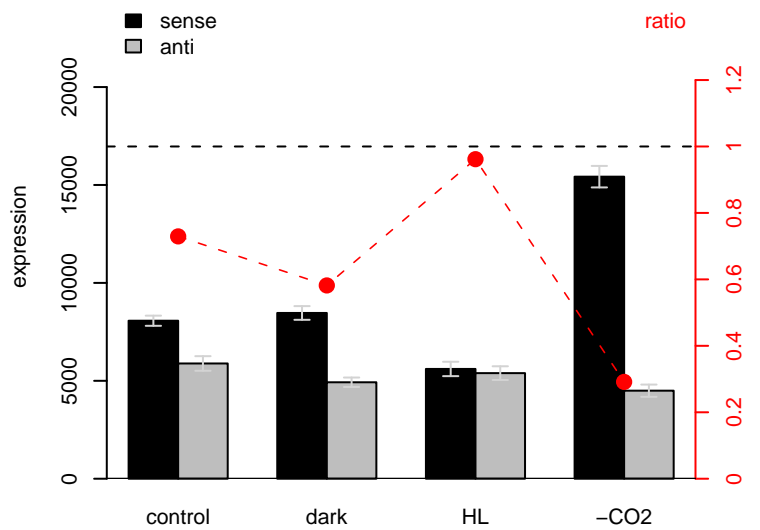
**genome\_1462**

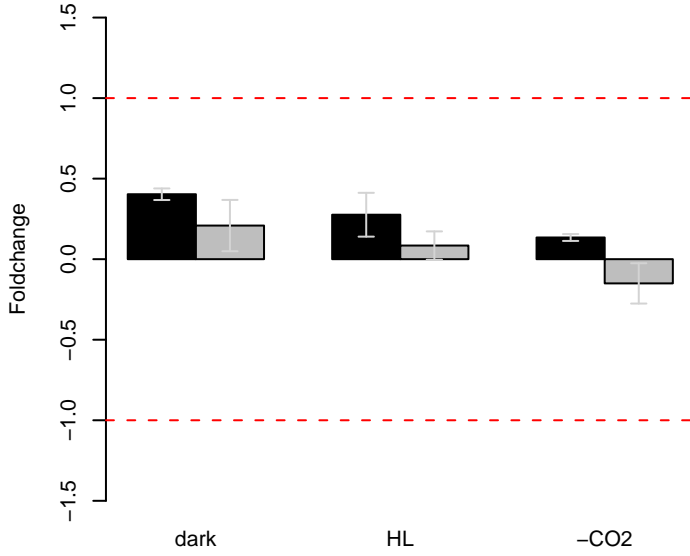
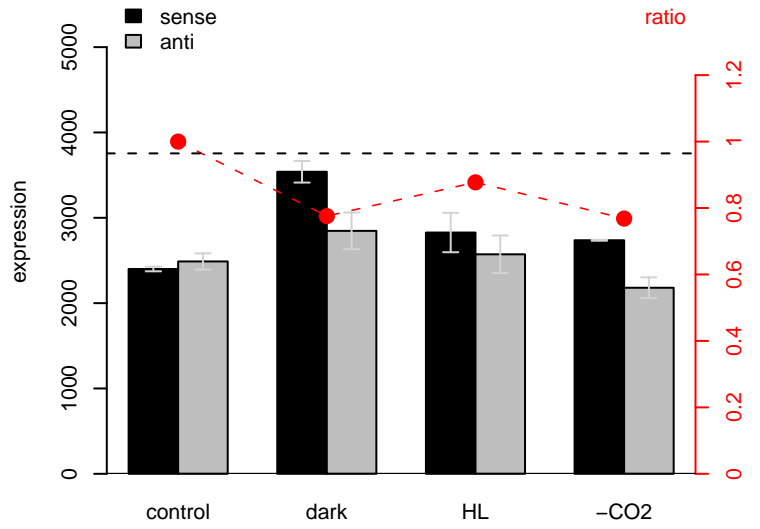
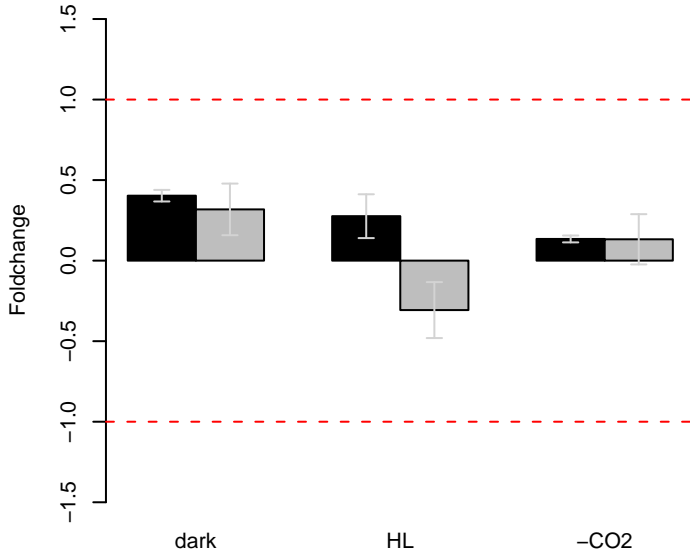
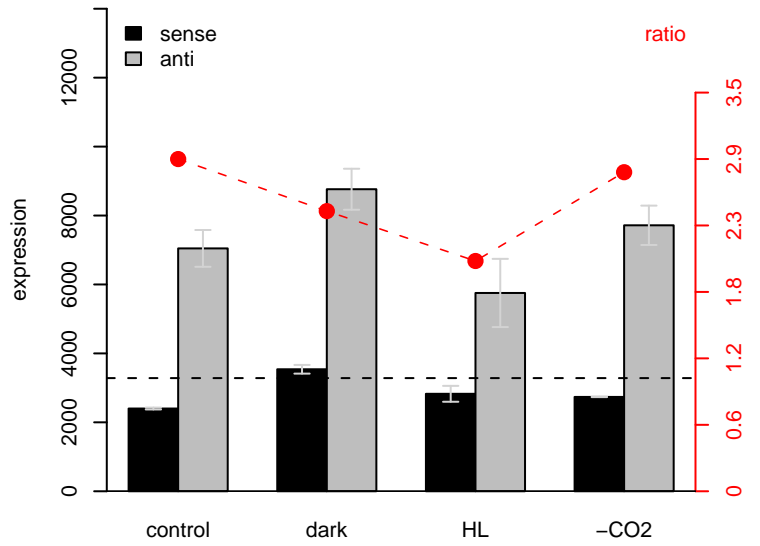
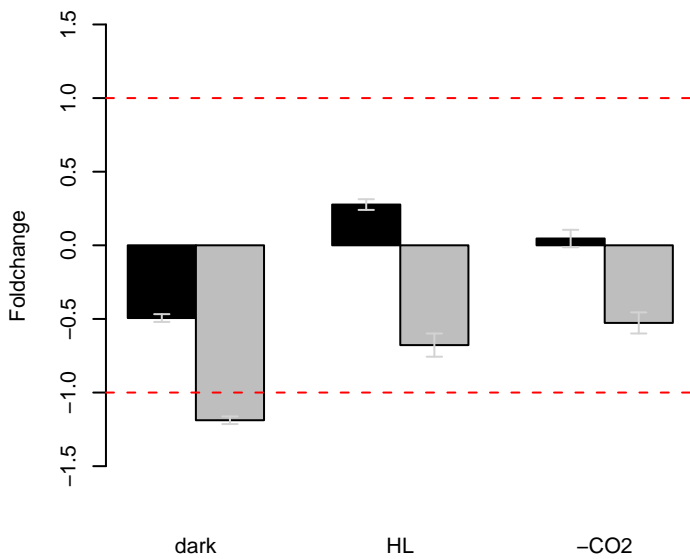
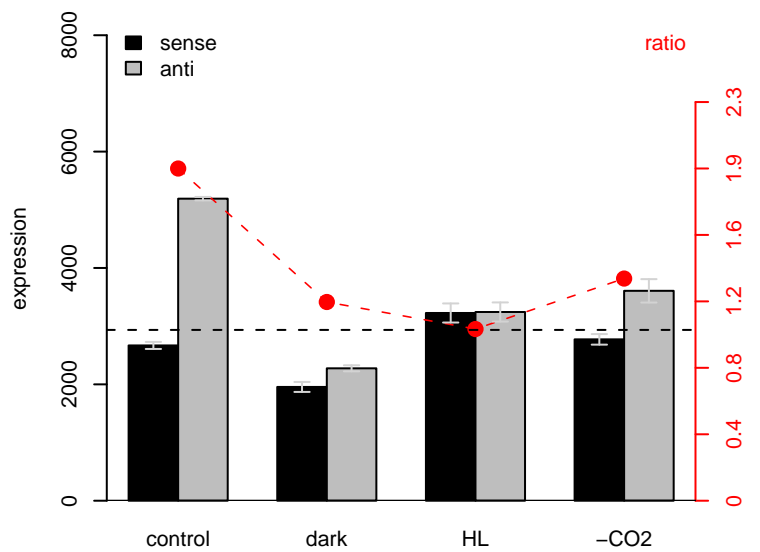


**prc(slr1751)**

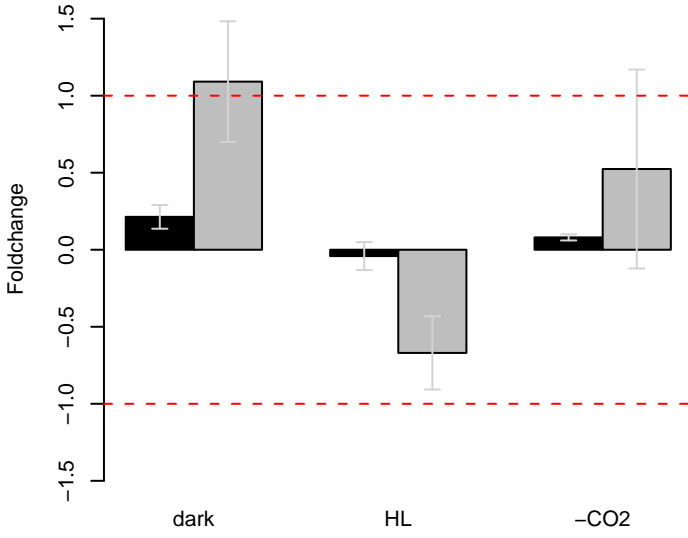


**genome\_1467**

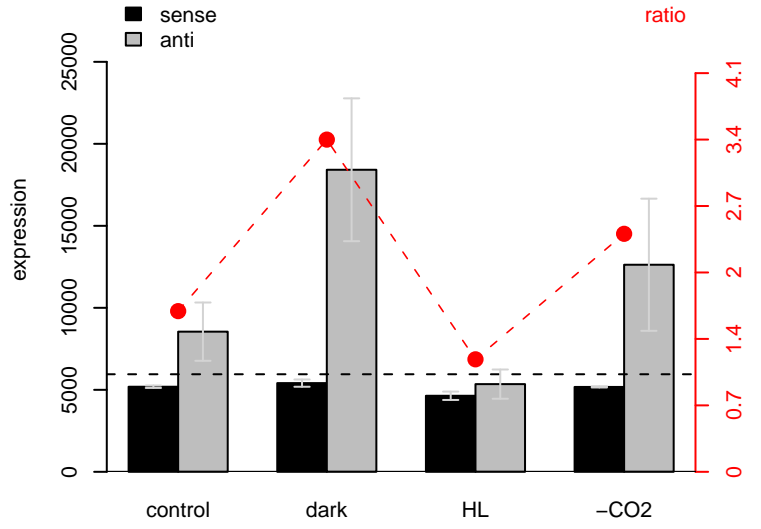


**slr1222****genome\_1477****slr1222****genome\_1477****uvrD(sll1143)****genome\_1481**

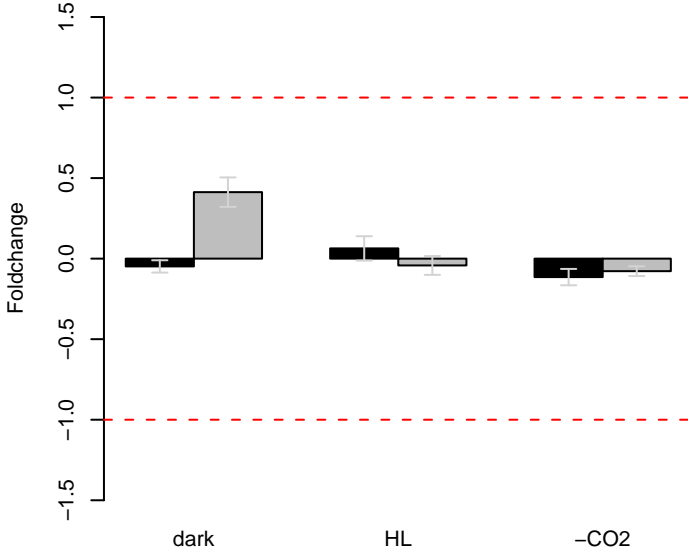
**sl11142**



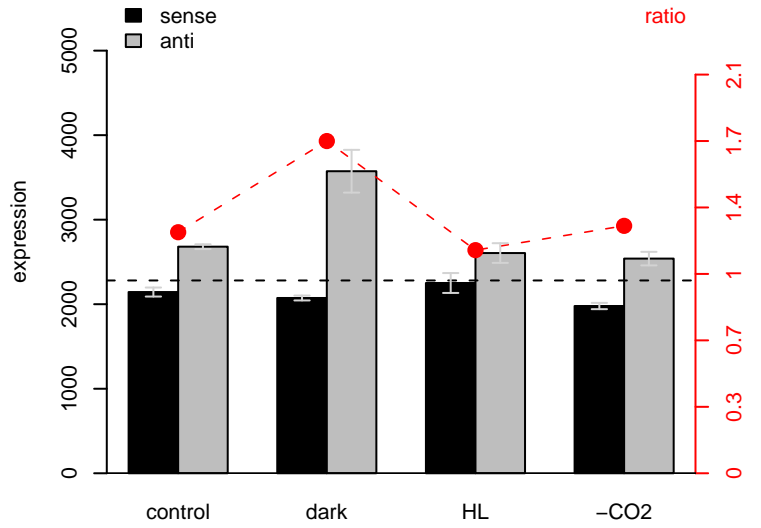
**genome\_1483**



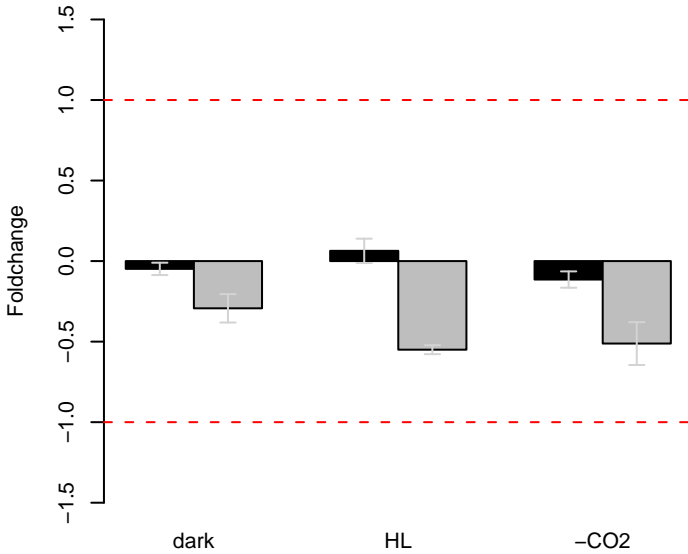
**malk(slr1224)**



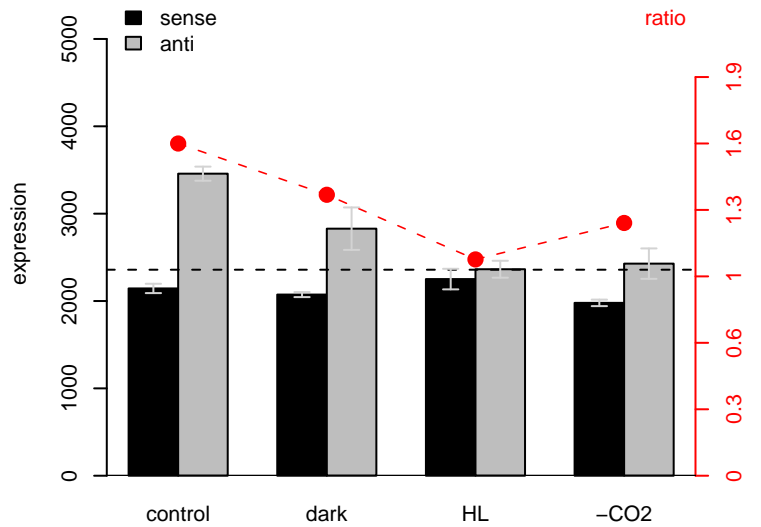
**genome\_1486**



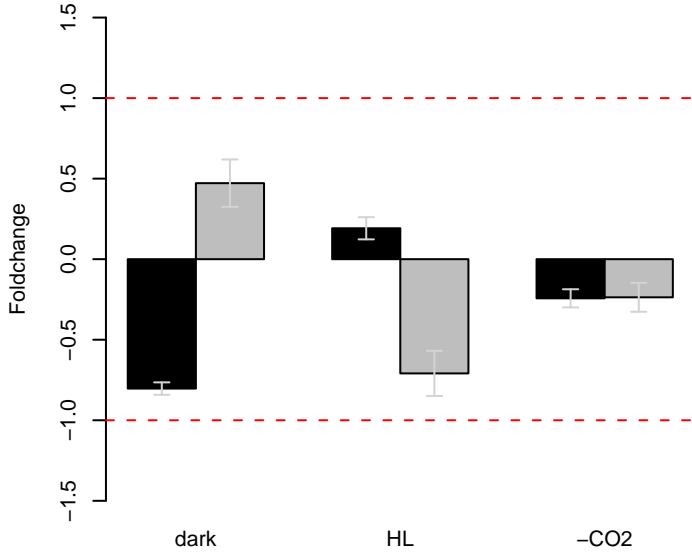
**malk(slr1224)**



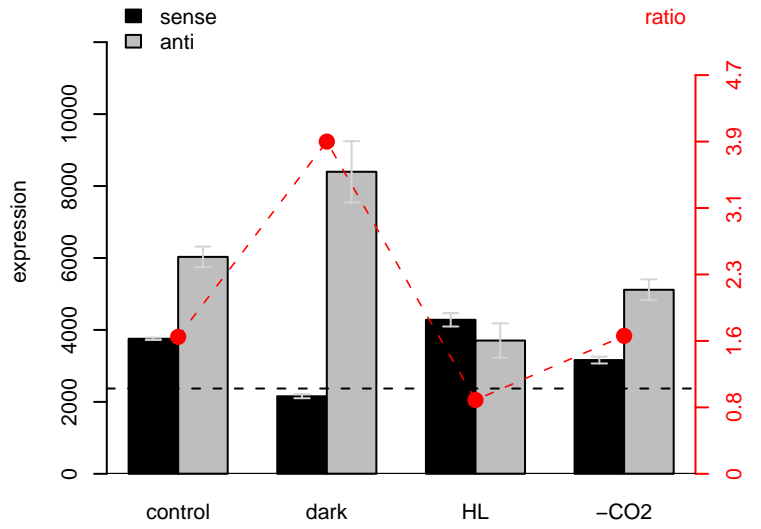
**genome\_1486**



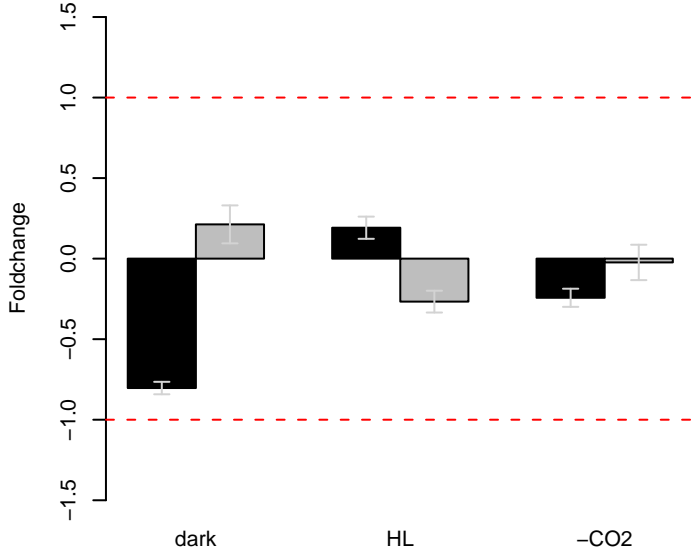
IAP75(slr1227)



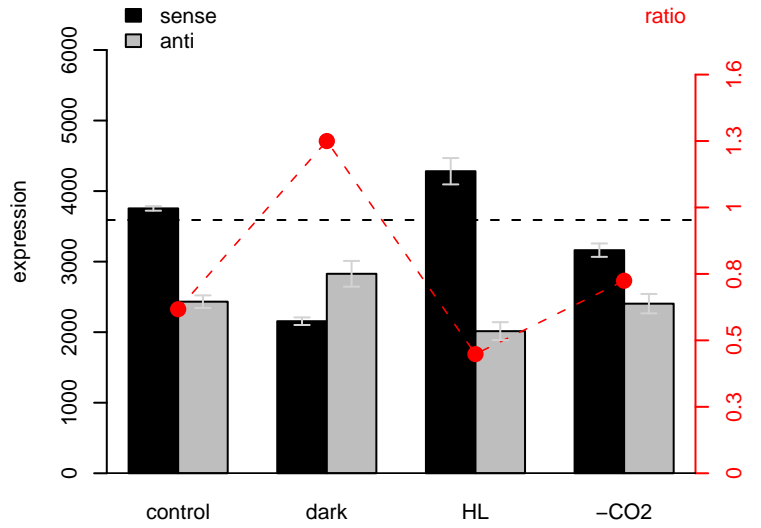
genome\_1493



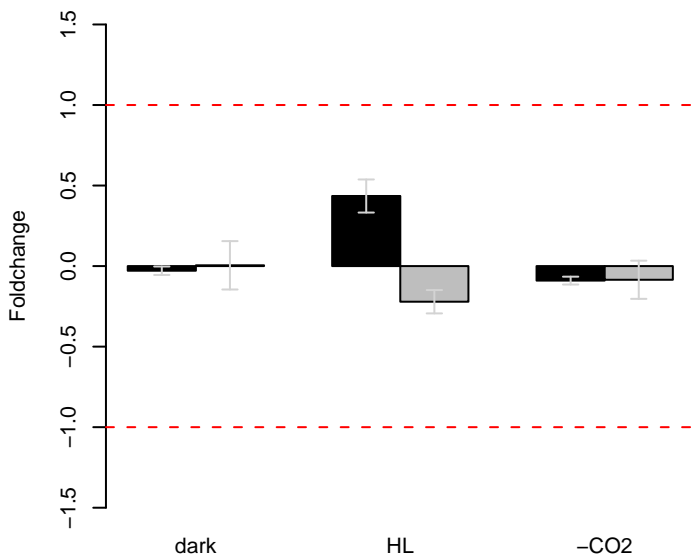
IAP75(slr1227)



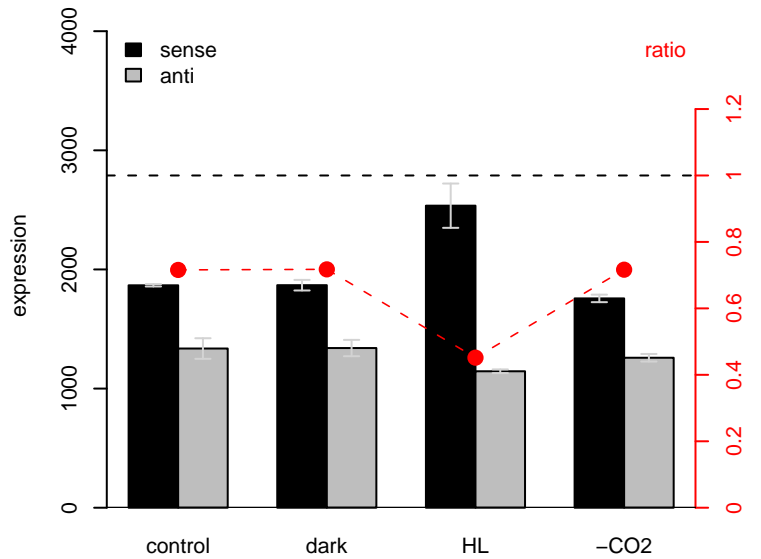
genome\_1493

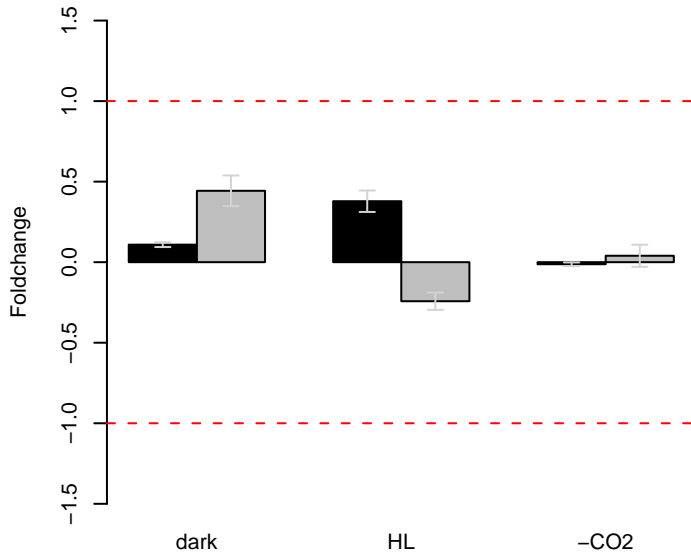
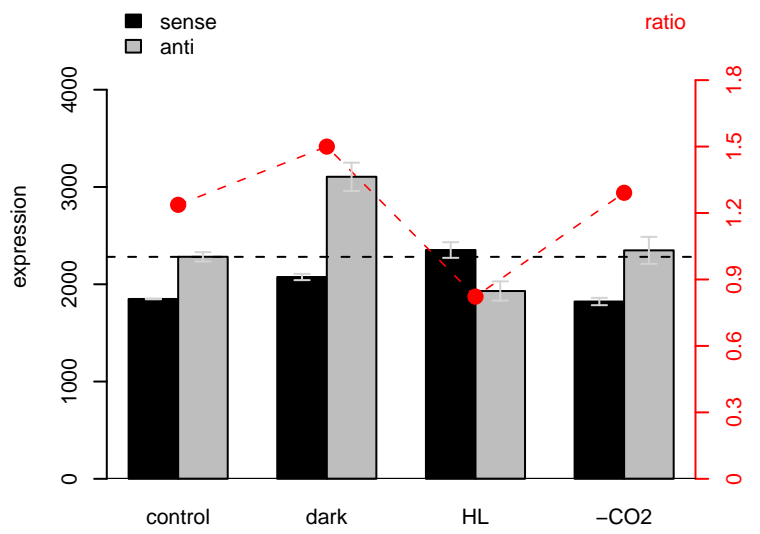
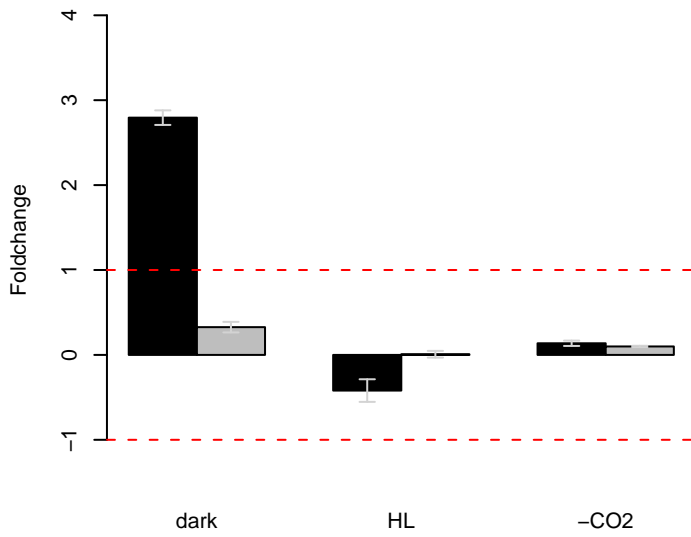
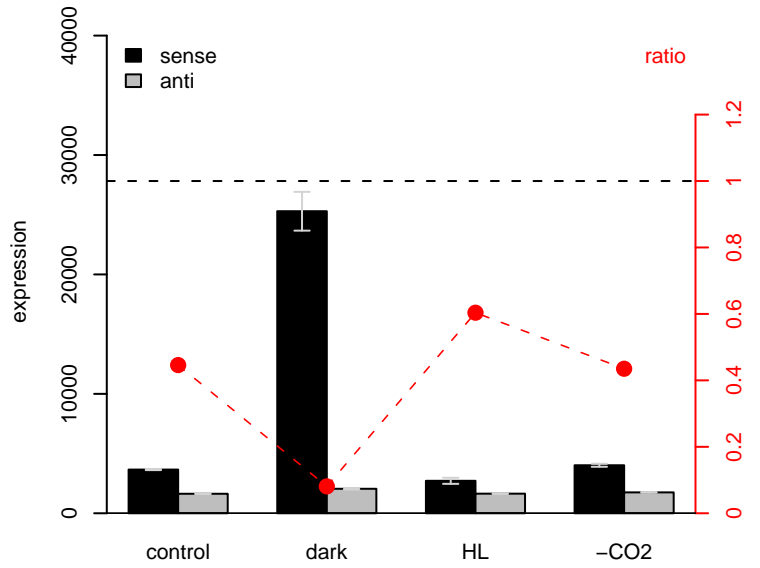
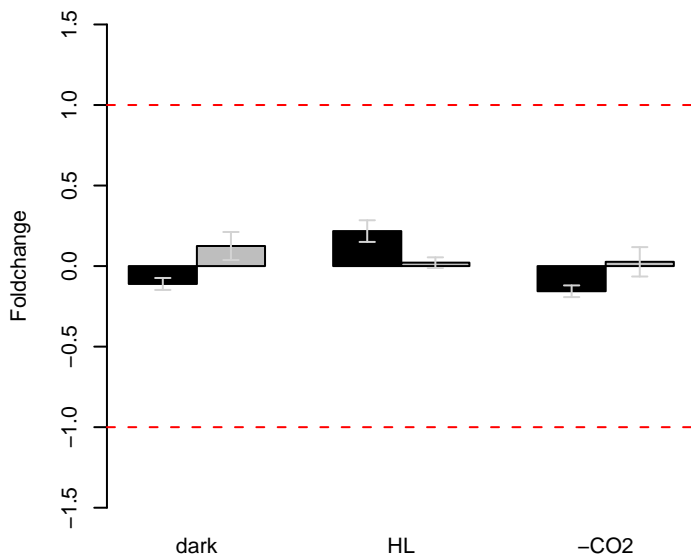
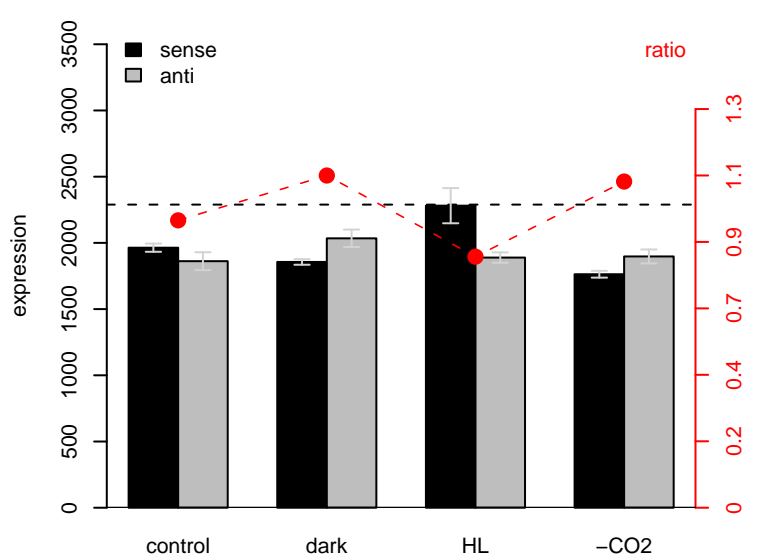


slr1229

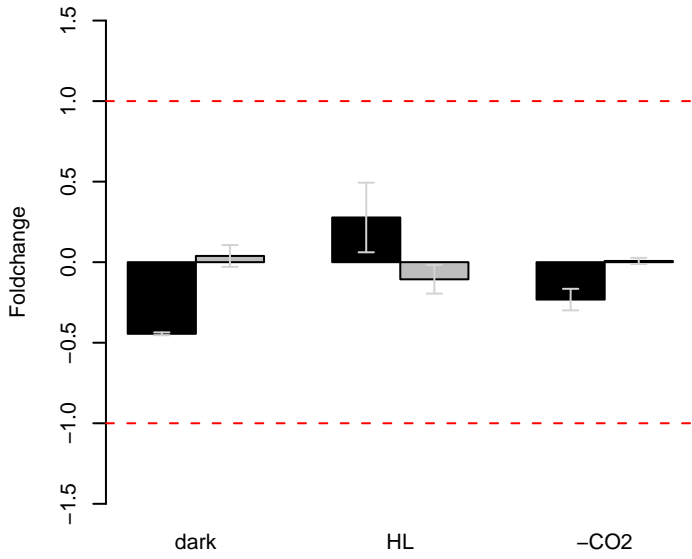


genome\_1499

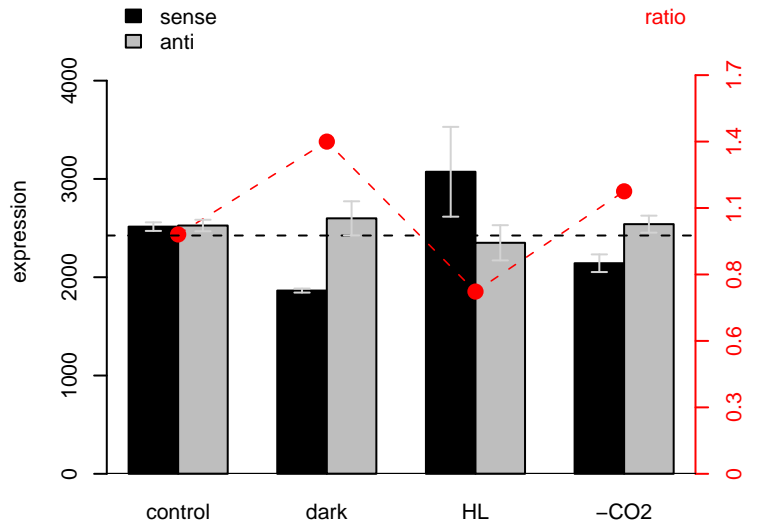


**slr1230****genome\_1500****slr1232****genome\_1503****slr1132****genome\_1512**

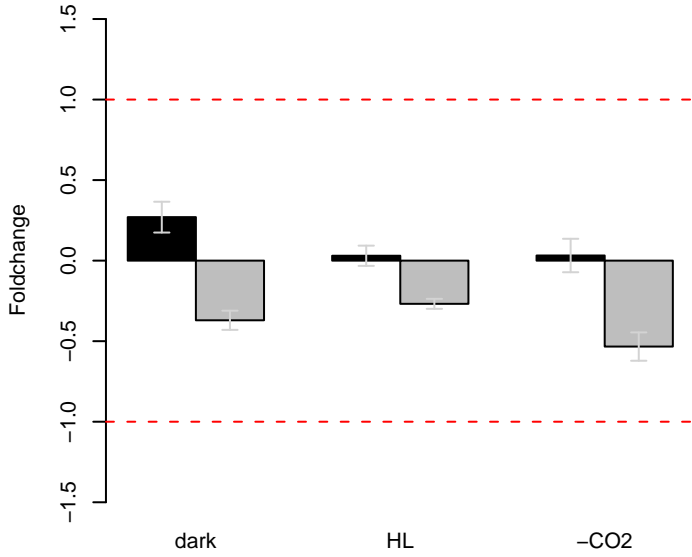
**slI1131**



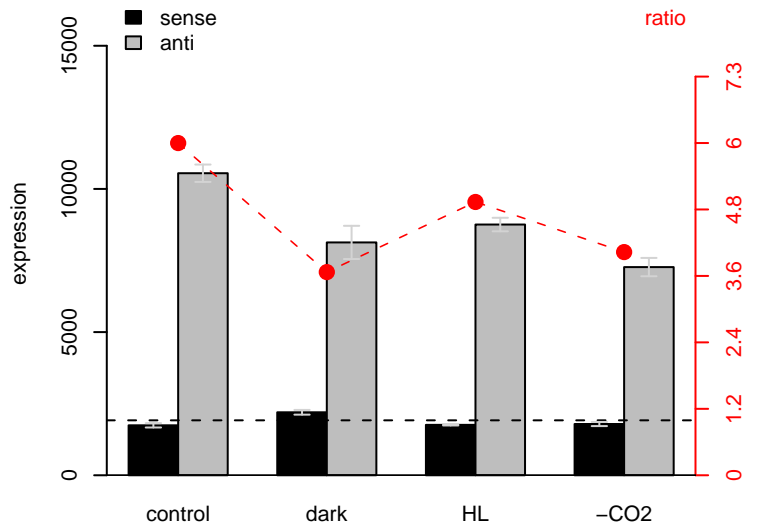
**genome\_1514**



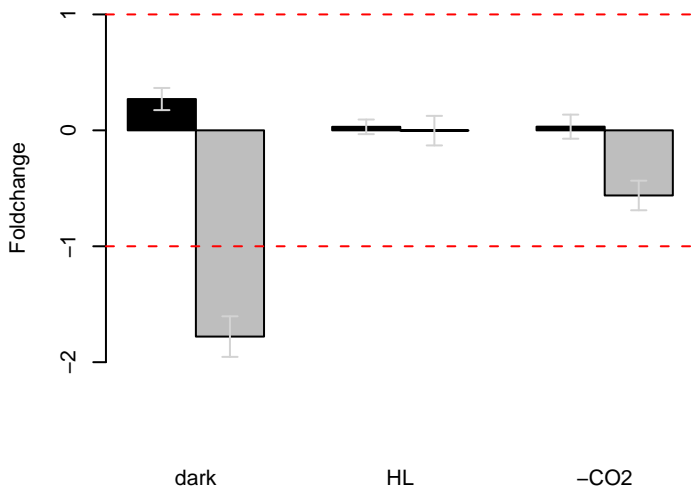
**codA(slr1237)**



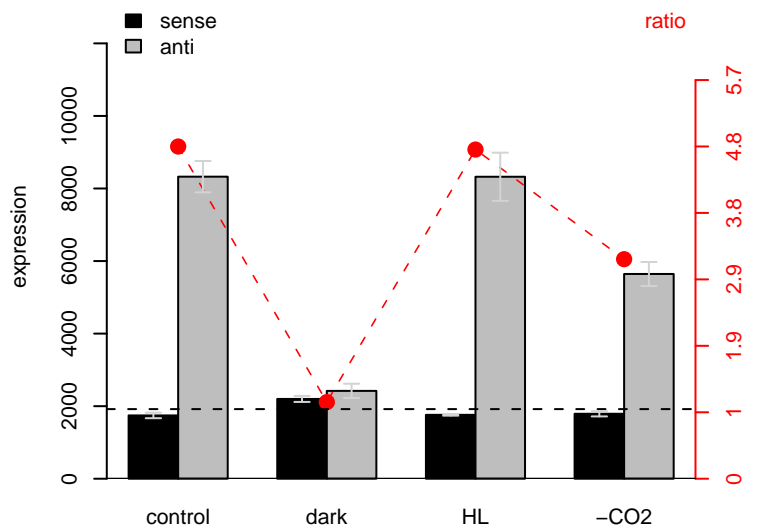
**genome\_1516**

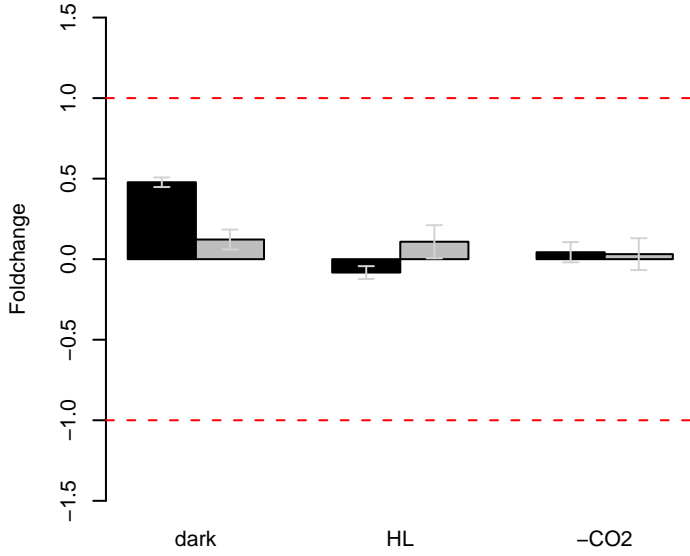
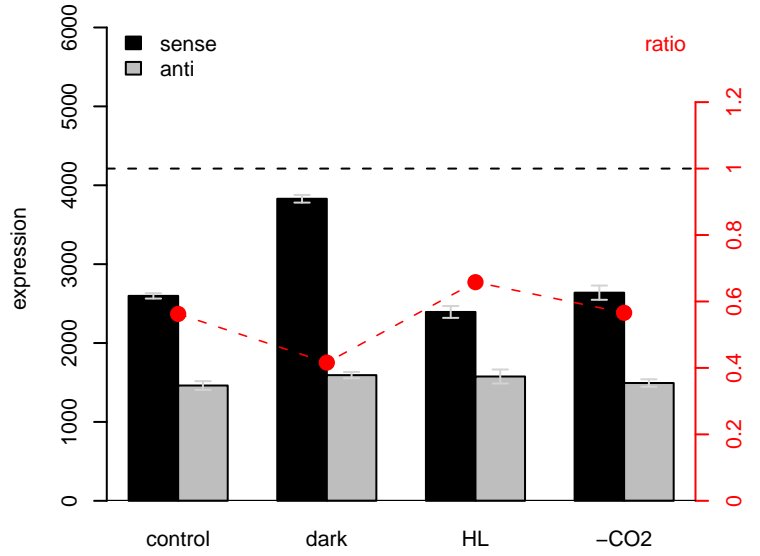
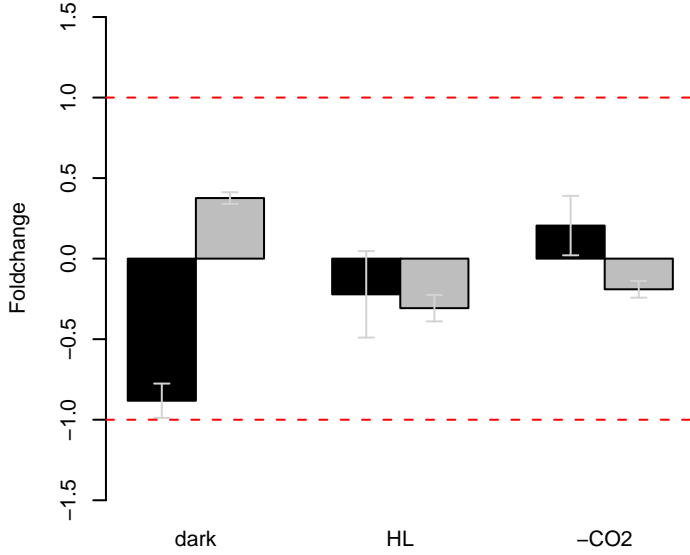
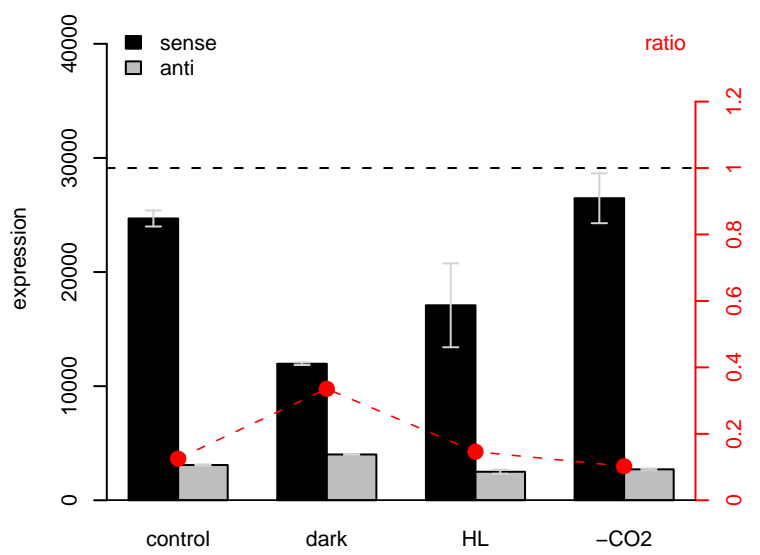
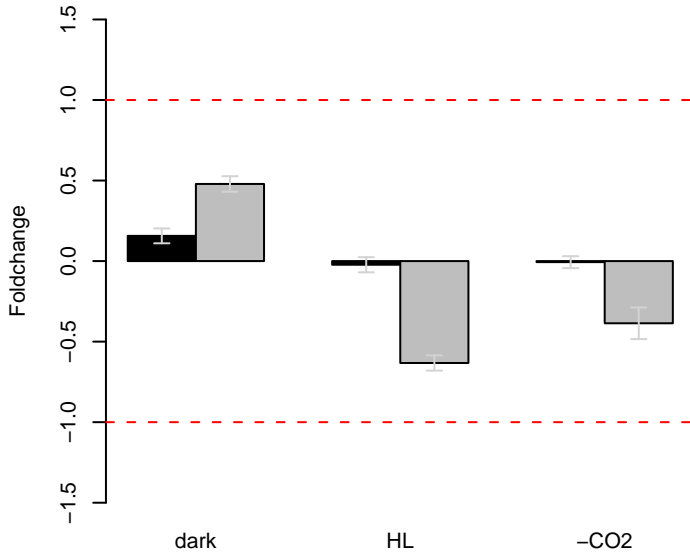
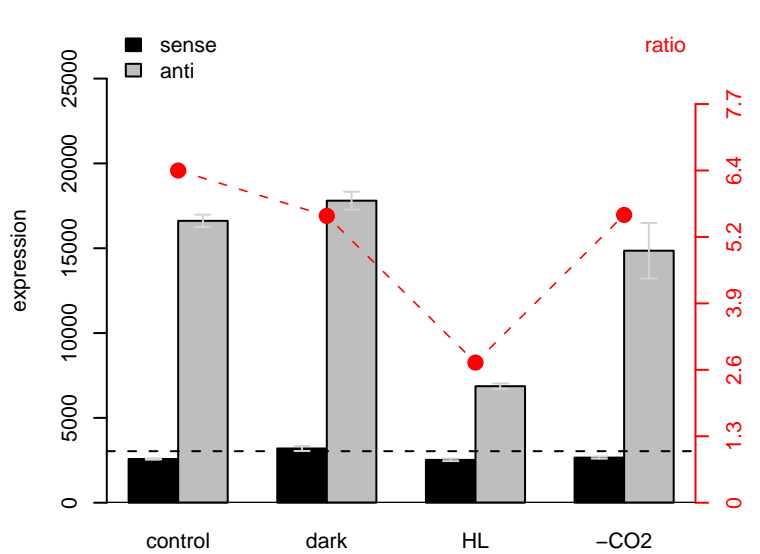


**codA(slr1237)**



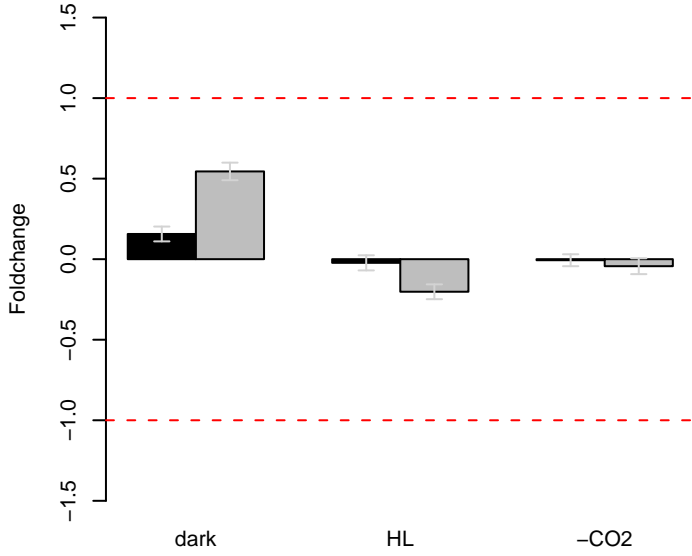
**genome\_1516**



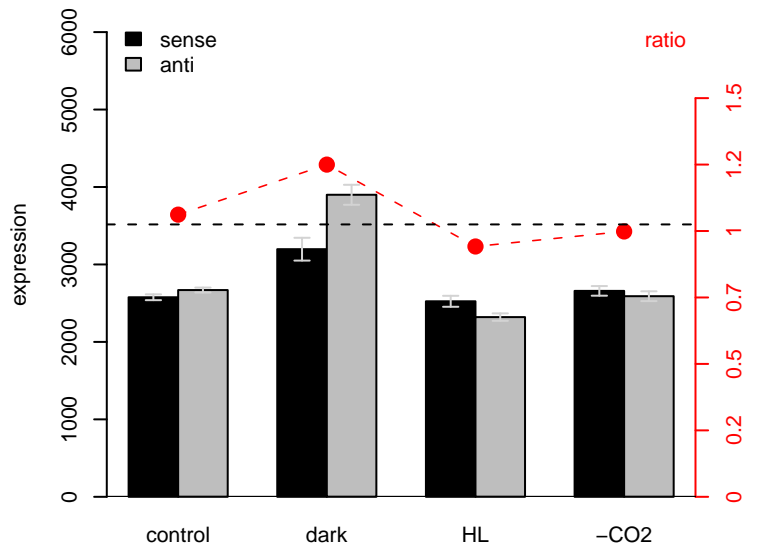
**todF(sll1129)****genome\_1521****grxC(ssr2061)****genome\_1524****menB(sll1127)****genome\_1530**



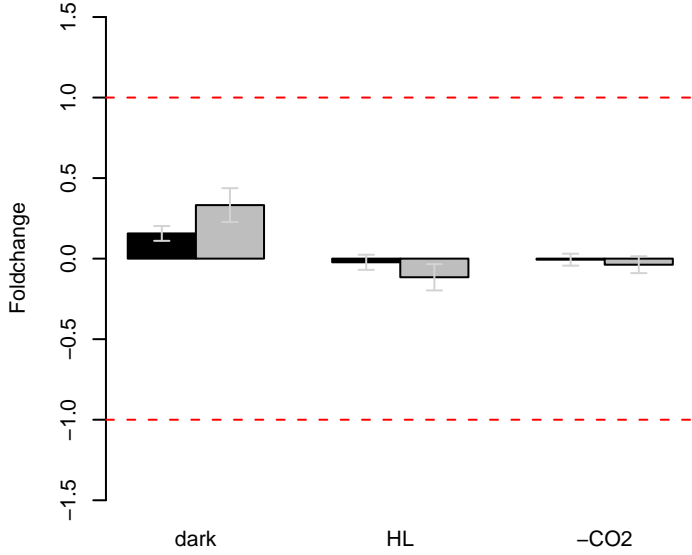
**menB(sll1127)**



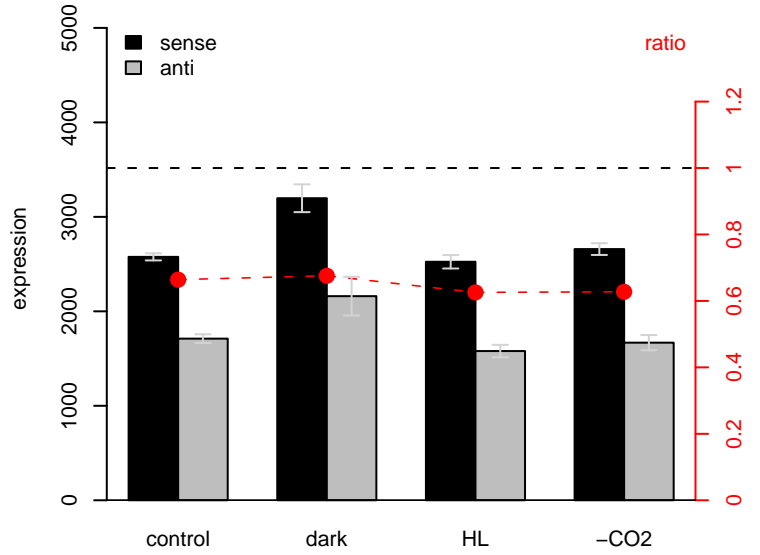
**genome\_1530**



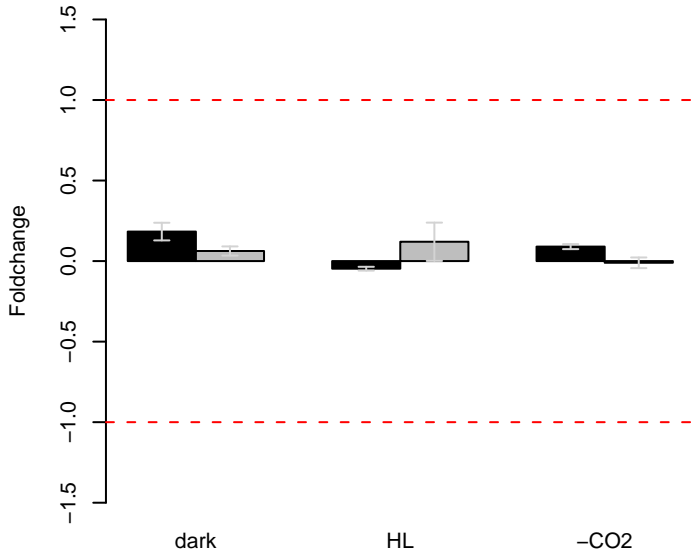
**menB(sll1127)**



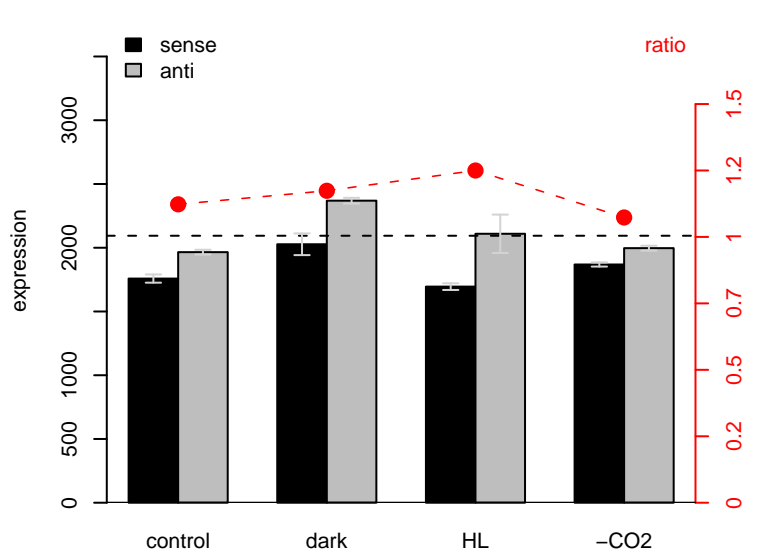
**genome\_1530**

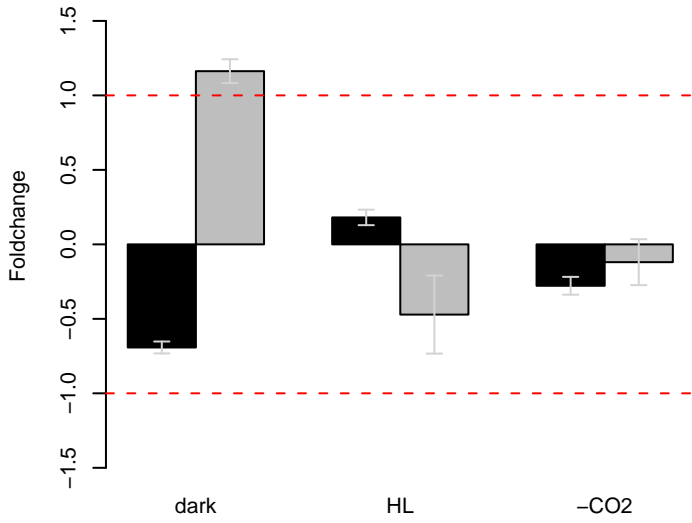
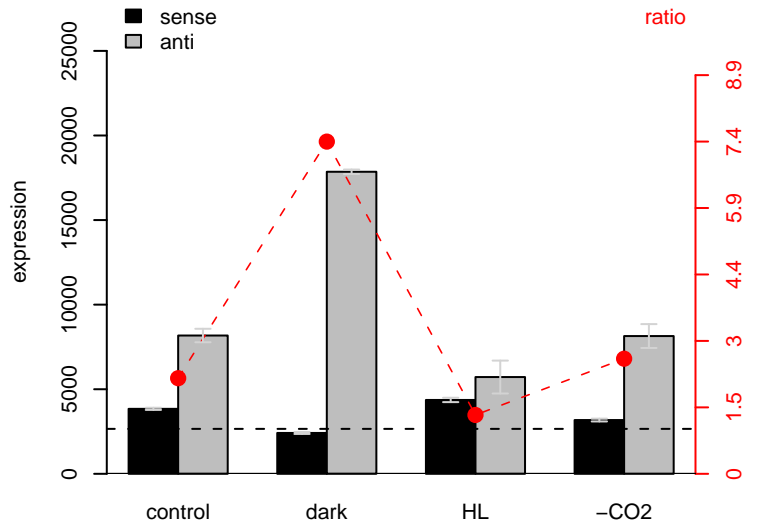
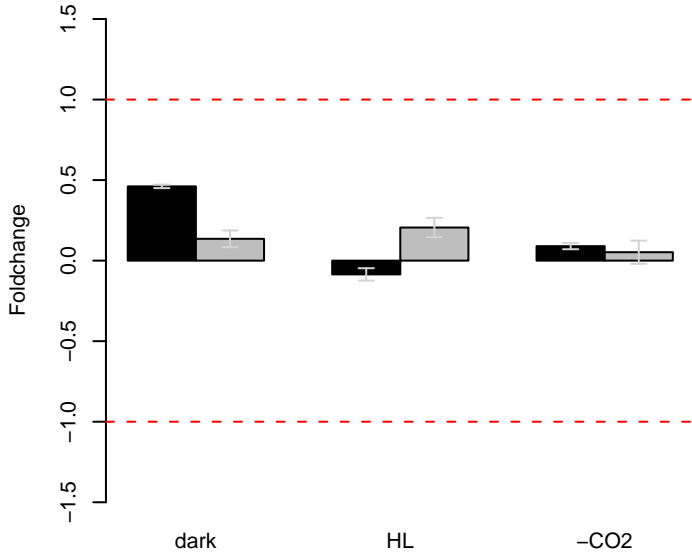
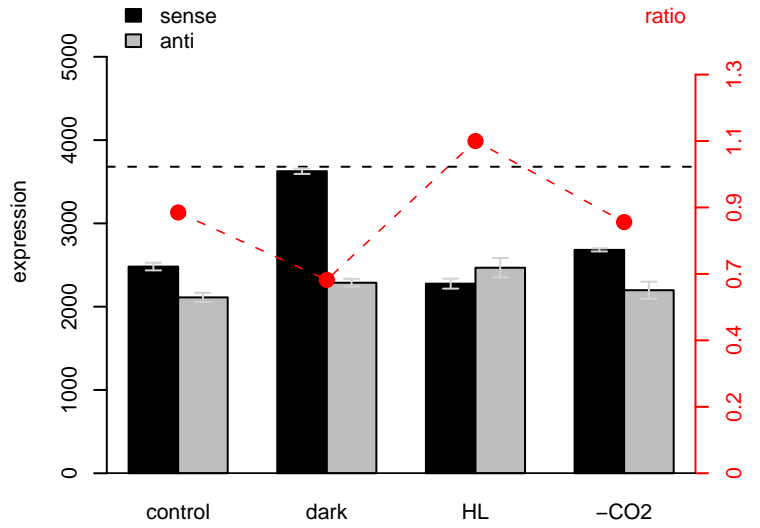
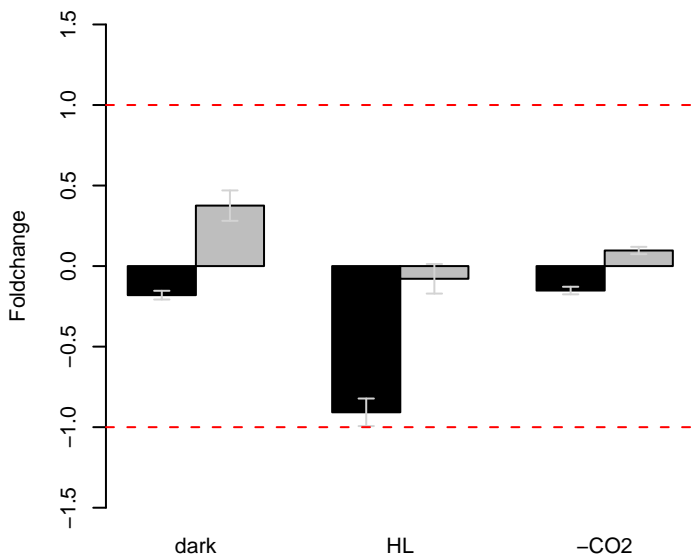
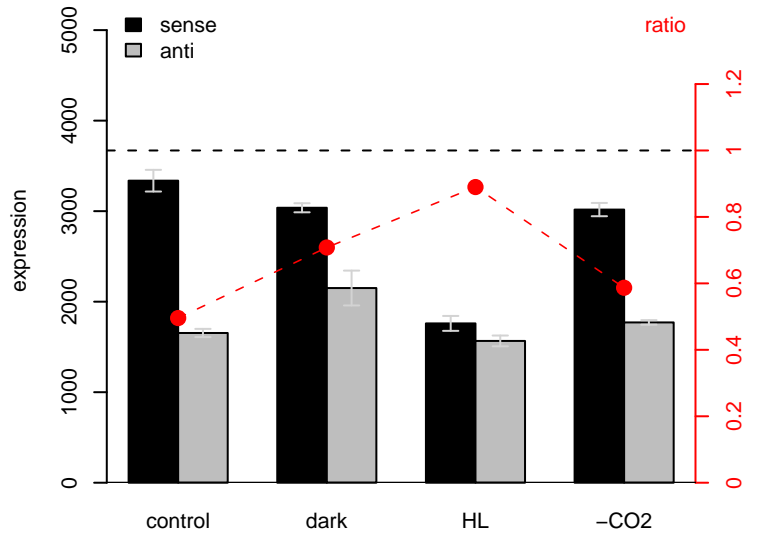


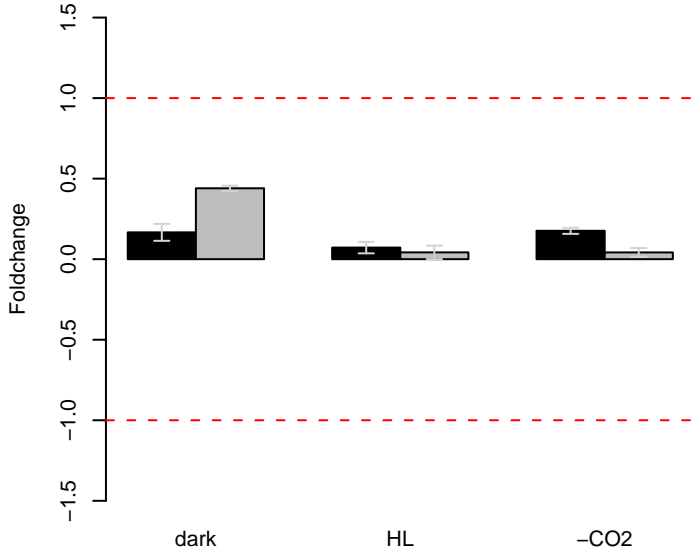
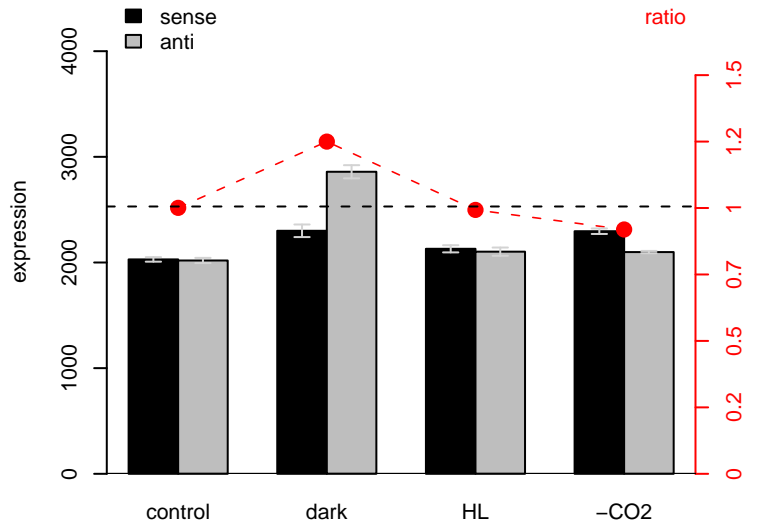
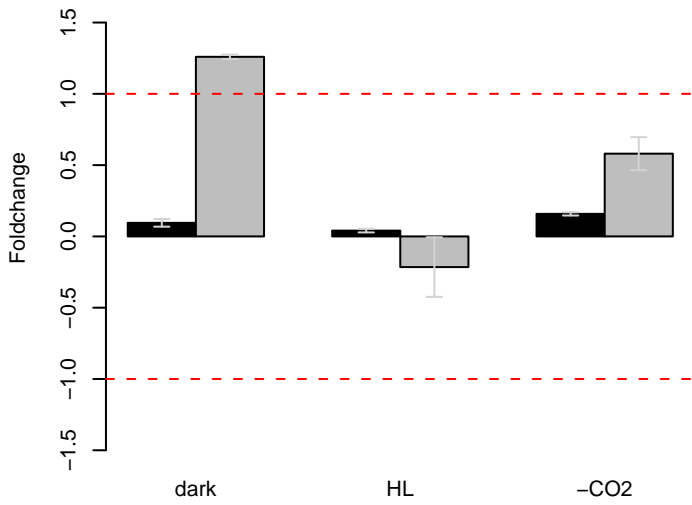
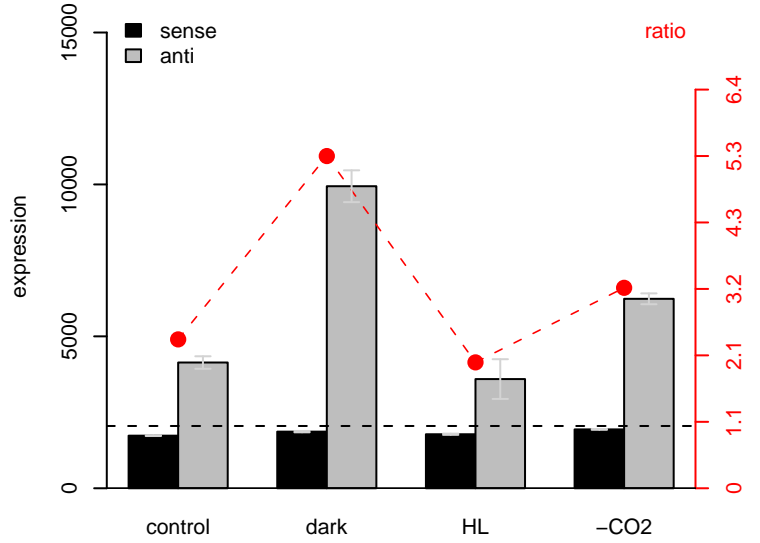
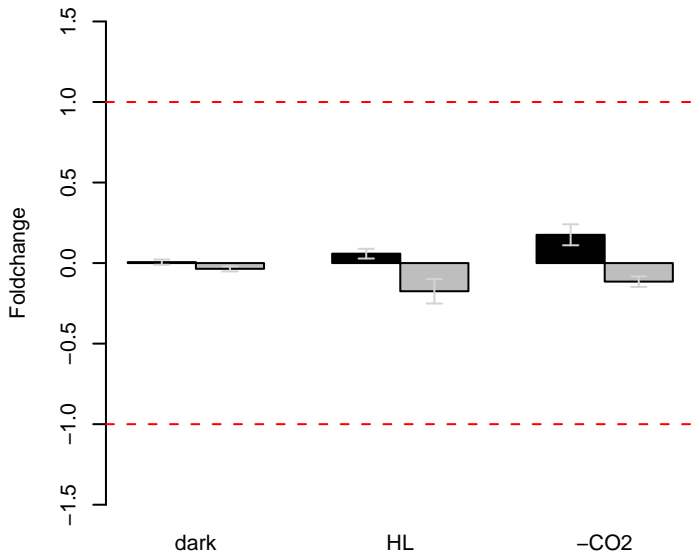
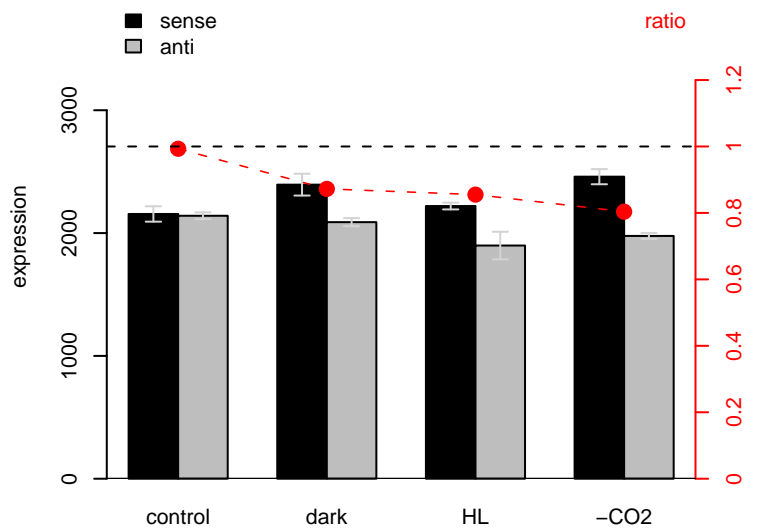
**sll0703**

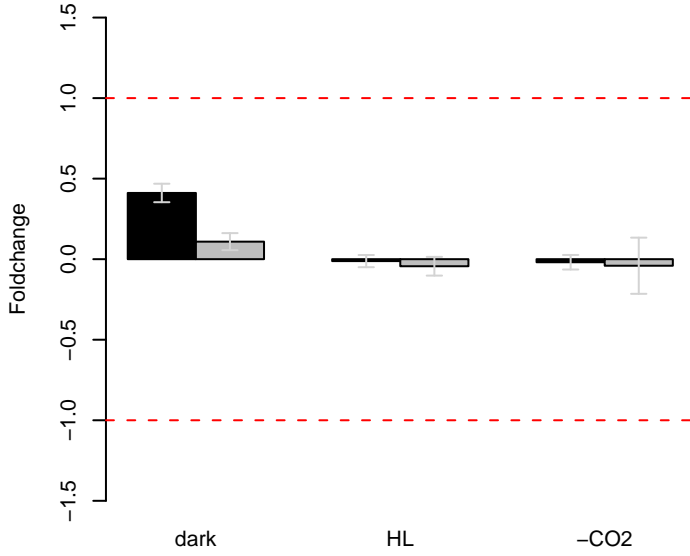
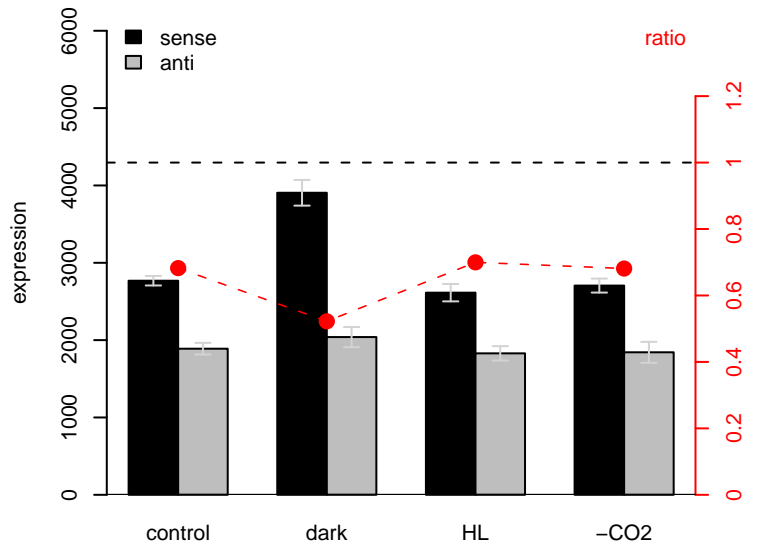
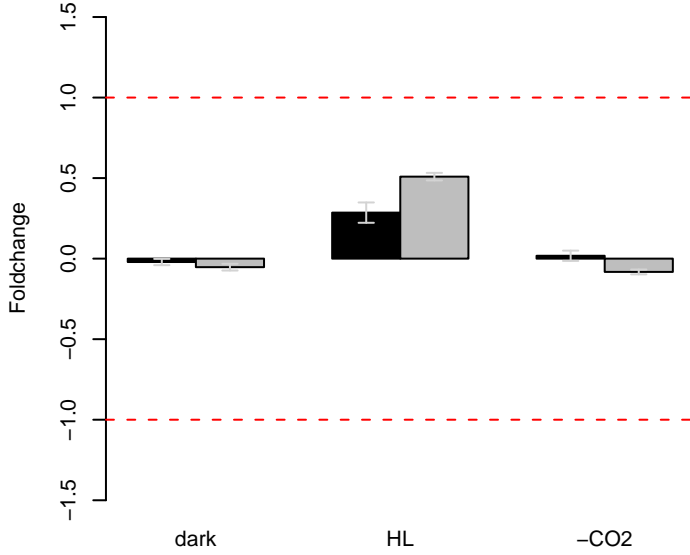
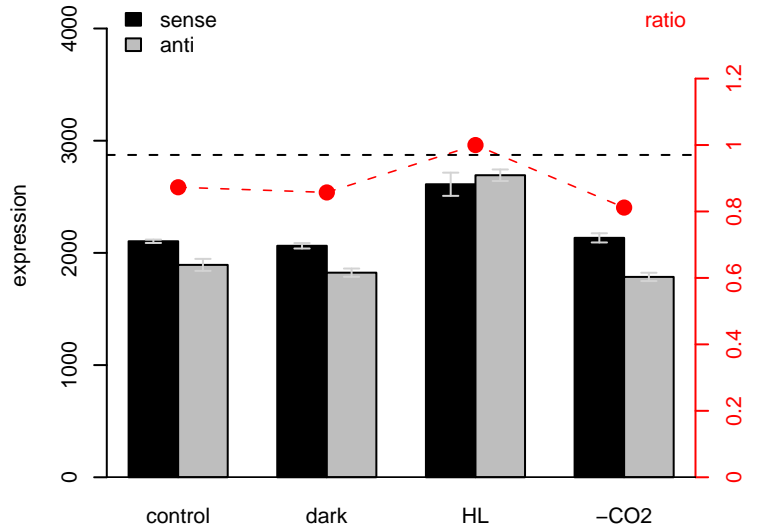
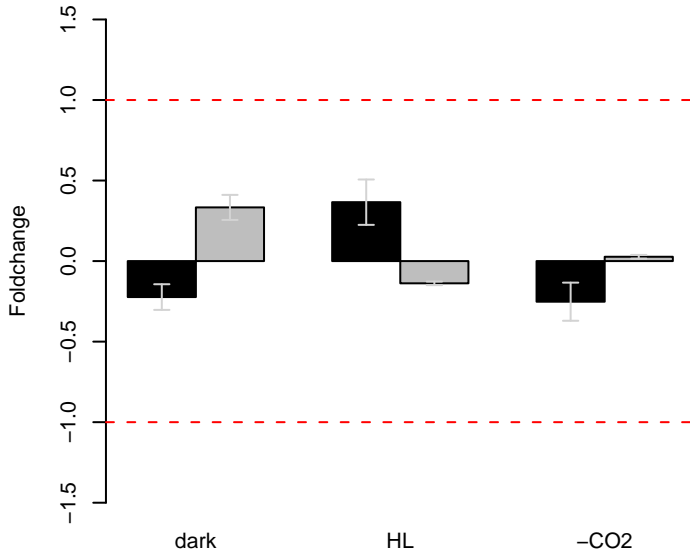
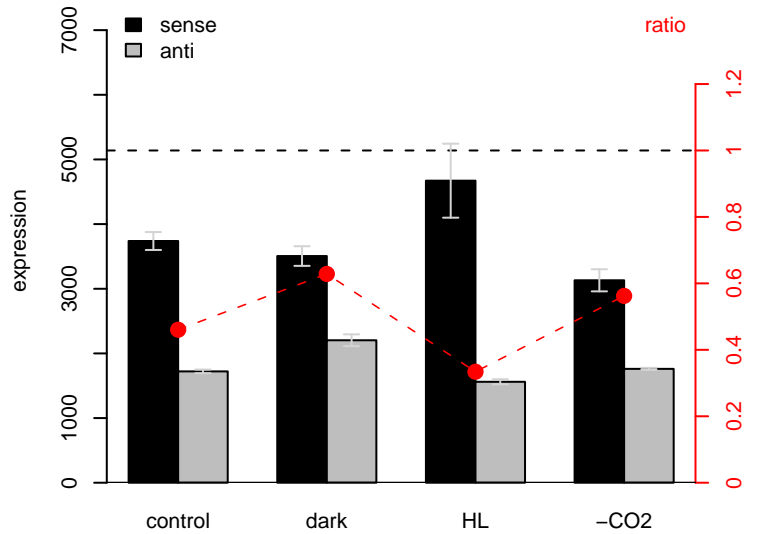


**genome\_155**

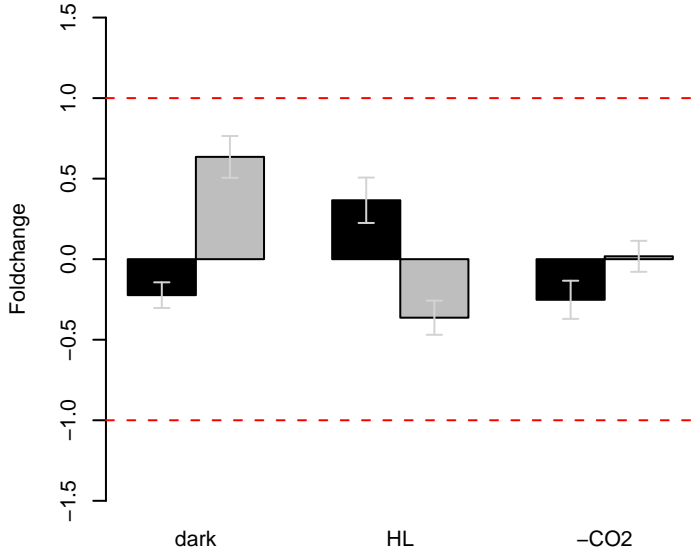


**ileS(sll1362)****genome\_1543****dnaX(sll1360)****genome\_1547****glgP(sll1356)****genome\_1551**

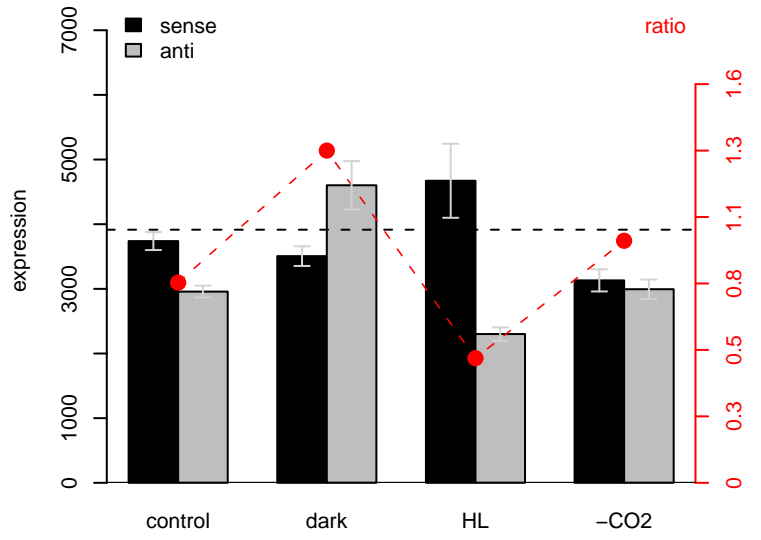
**recJ(sll1354)****genome\_1564****sll1353****genome\_1565****sll1350****genome\_1572**

**recF(sll1277)****genome\_1584****IspA(slr1366)****genome\_1595****glgP(slr1367)****genome\_1608**

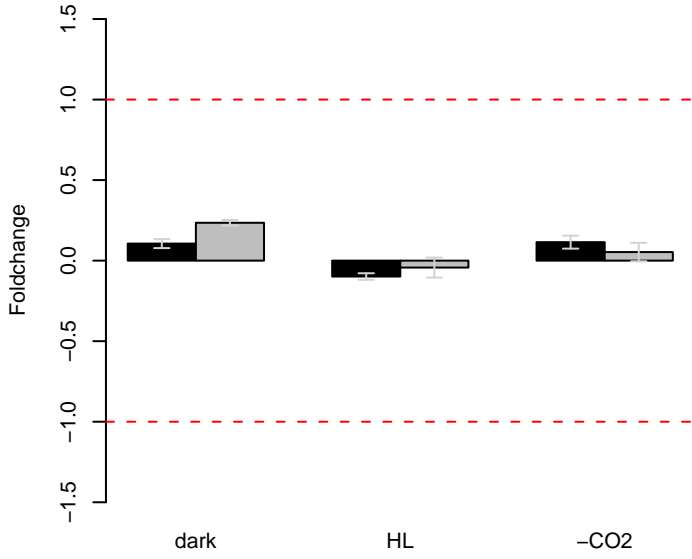
**glgP(slr1367)**



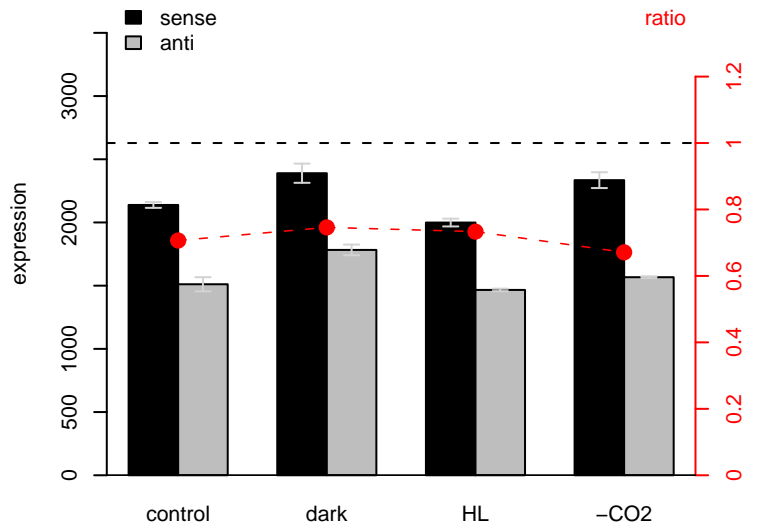
**genome\_1608**



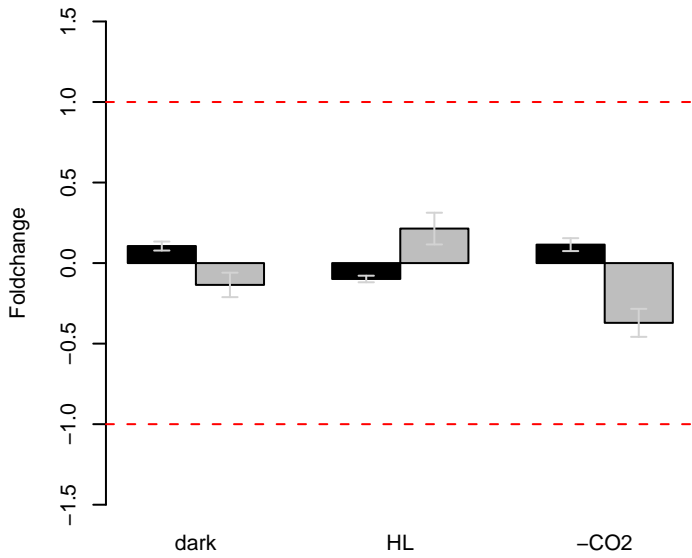
**slI1265**



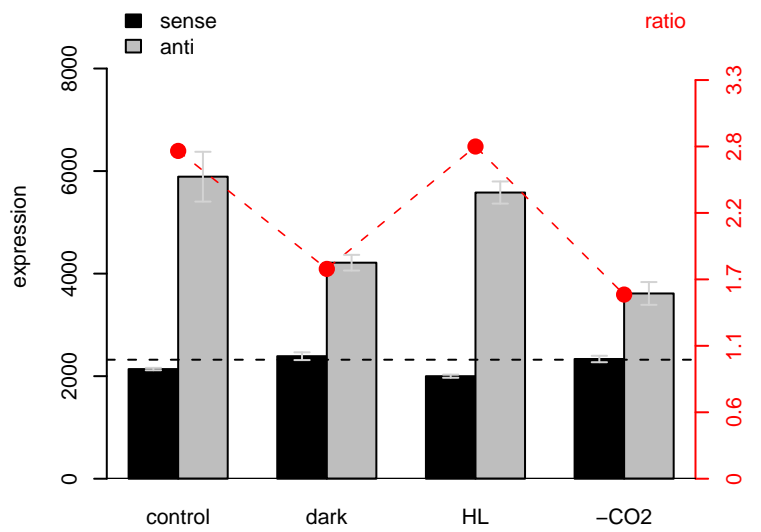
**genome\_1619**

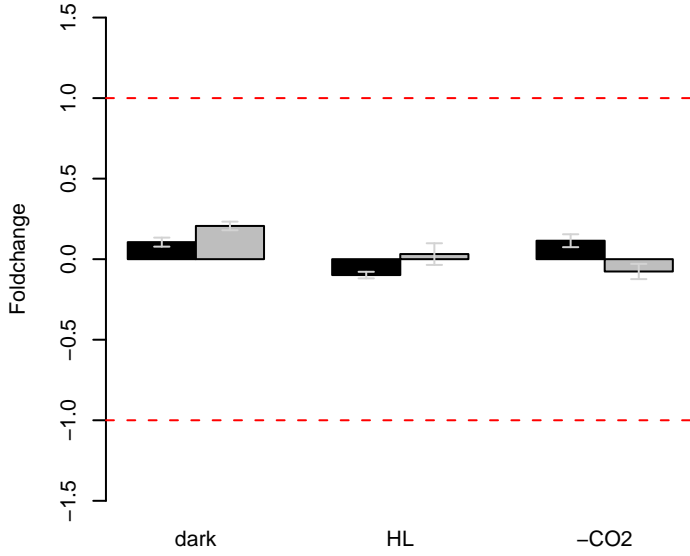
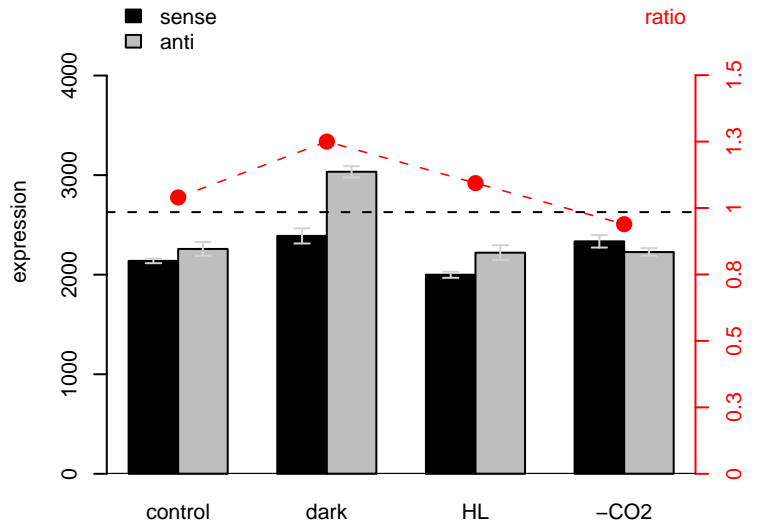
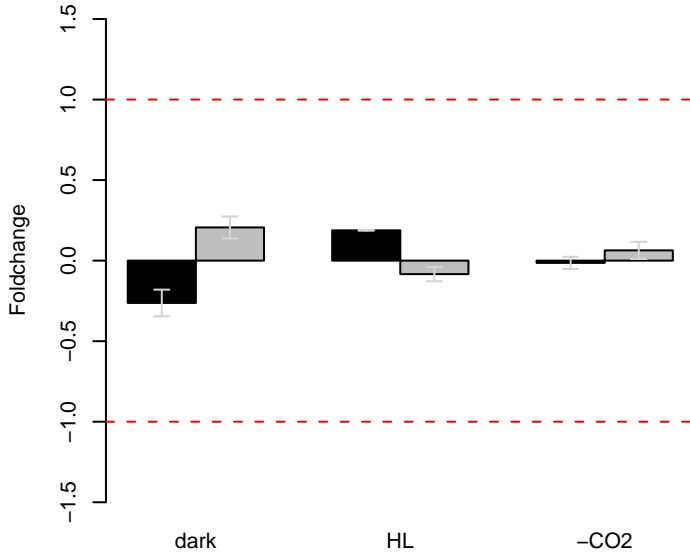
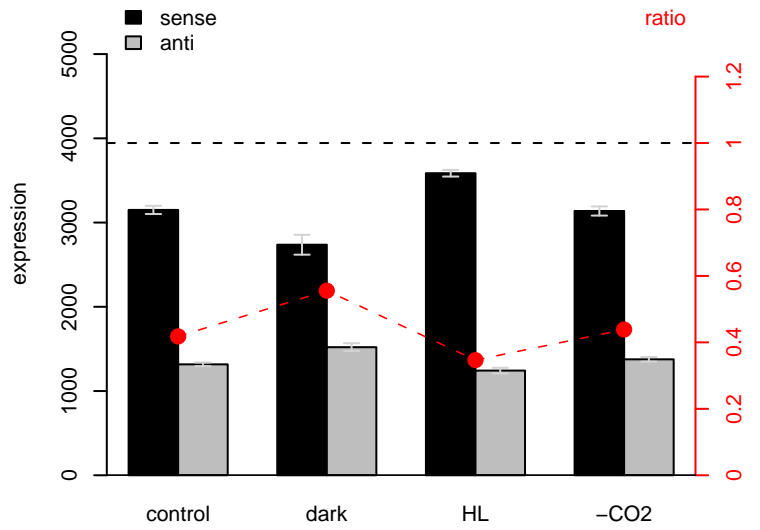
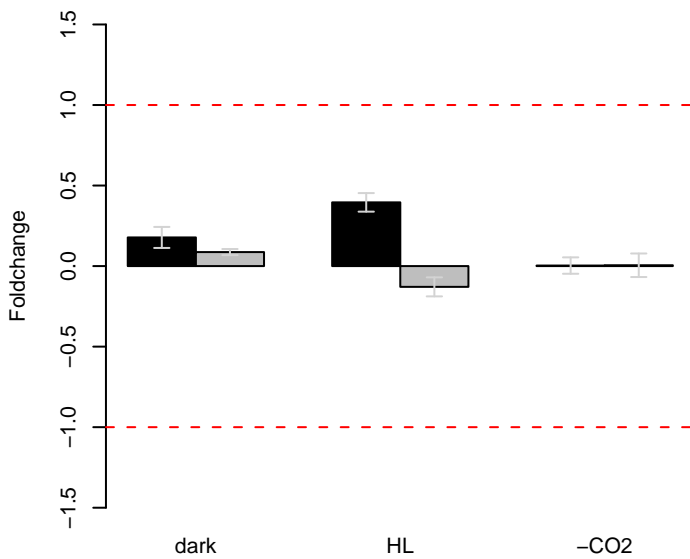
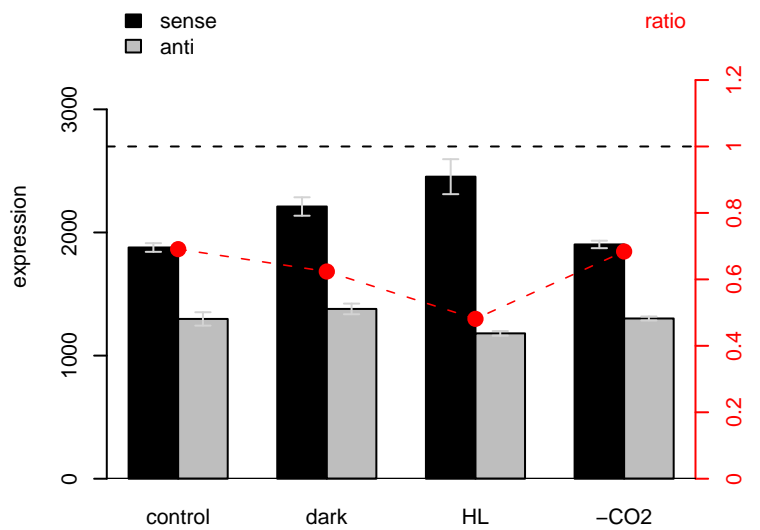


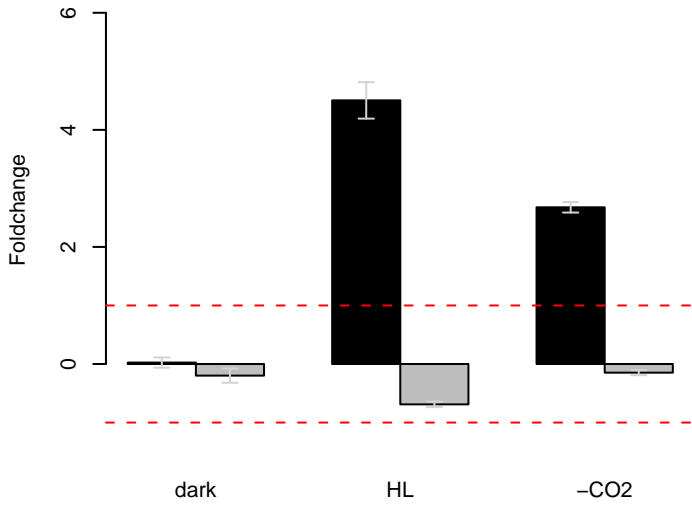
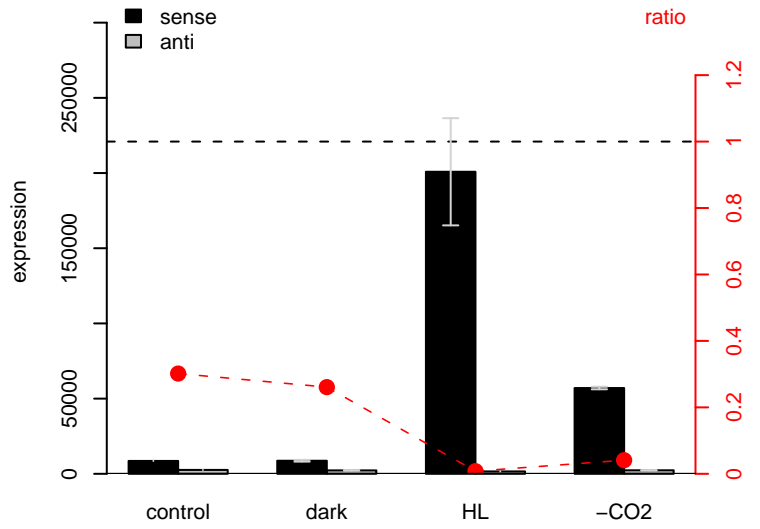
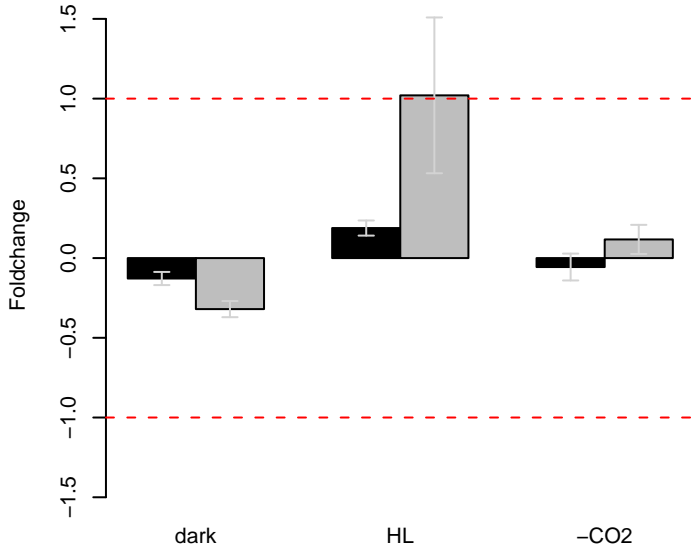
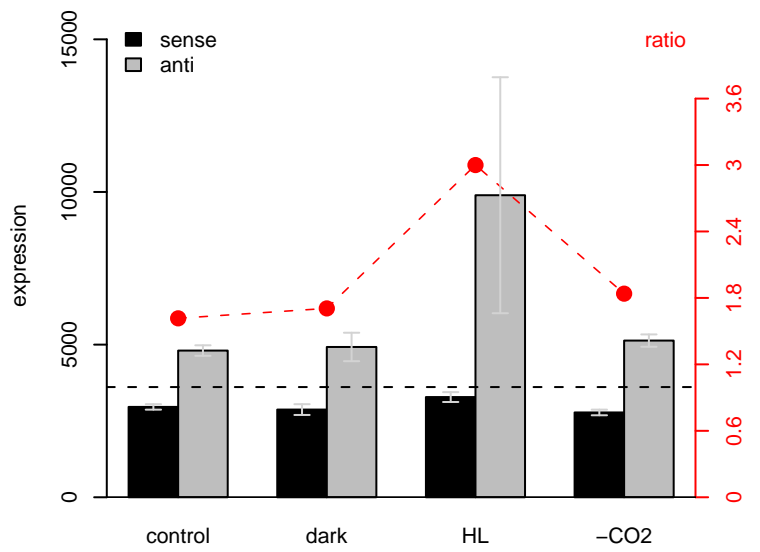
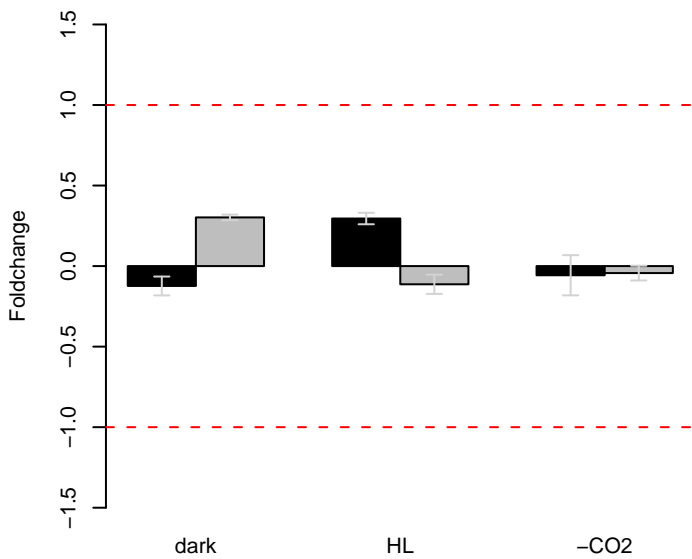
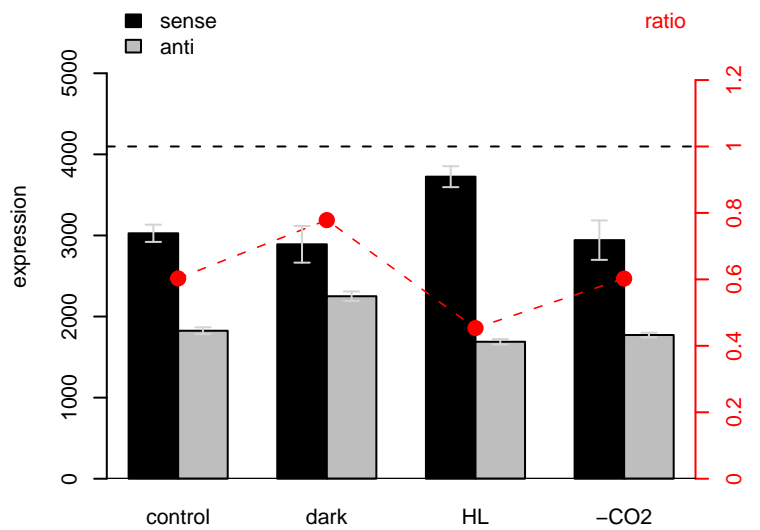
**slI1265**



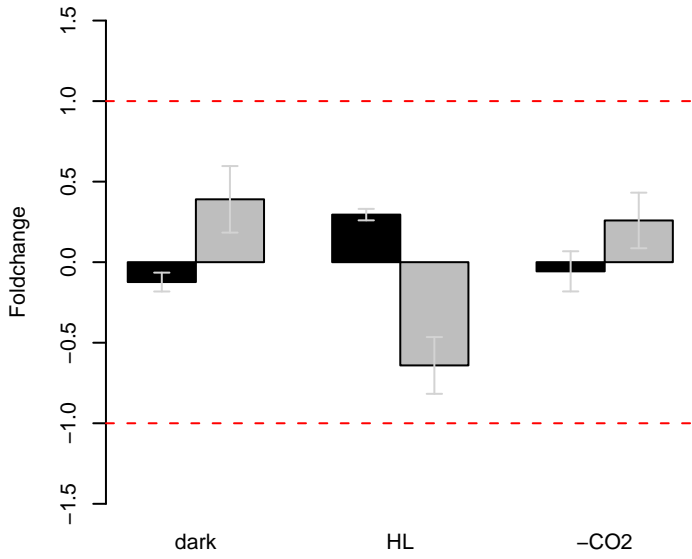
**genome\_1619**



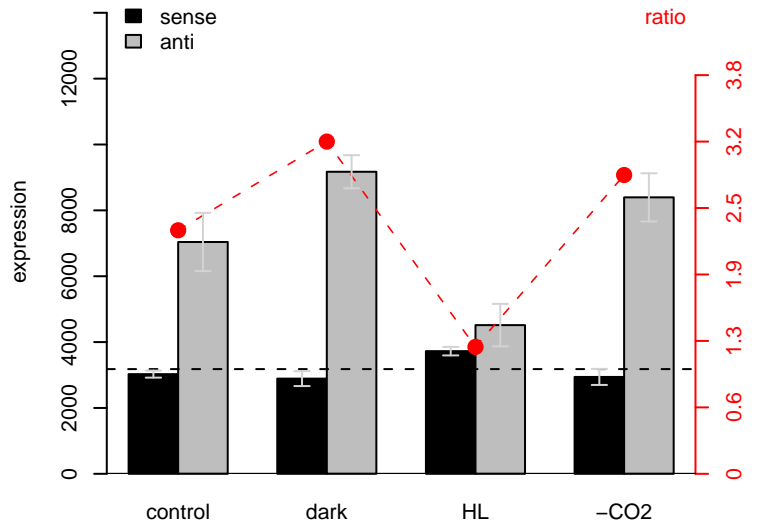
**sll1265****genome\_1619****slr0876****genome\_1627****napC(sll0873)****genome\_1635**

**ssl1633****genome\_1638****slr0882****genome\_1642****slI0862****genome\_1666**

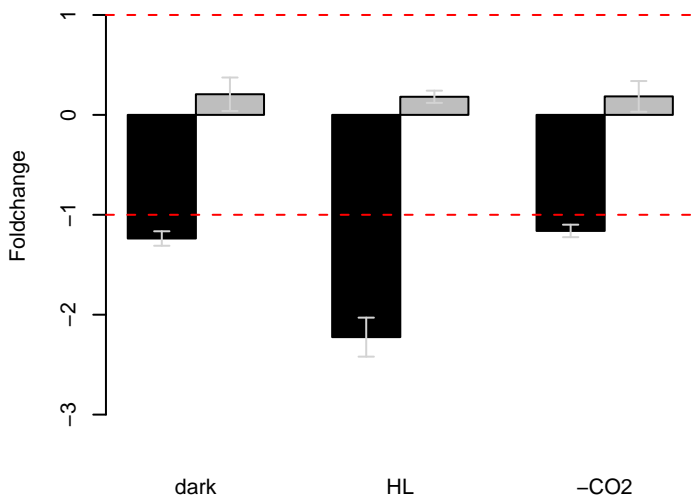
**sII0862**



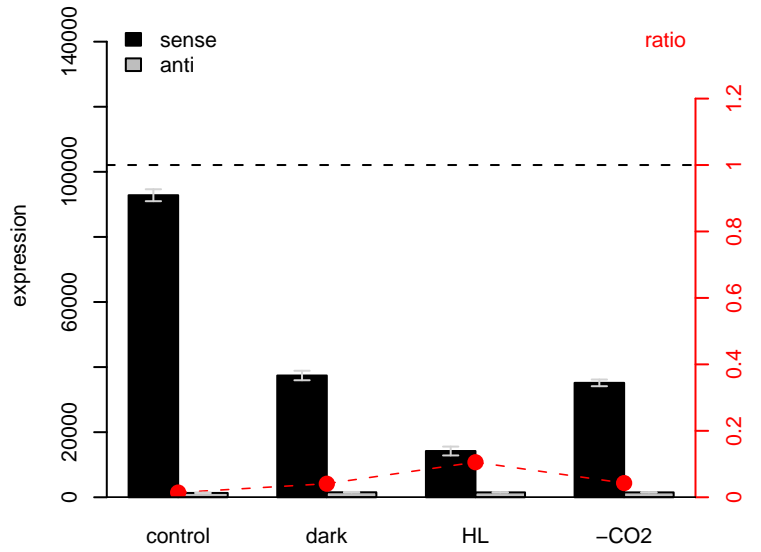
**genome\_1666**



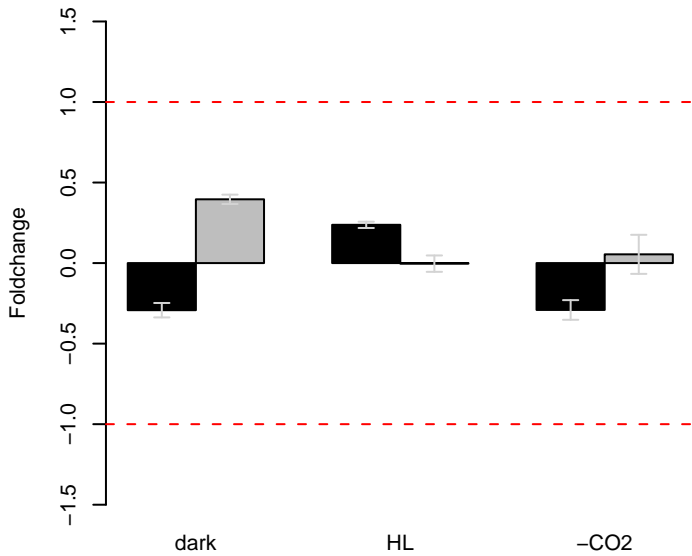
**psaD(slr0737)**



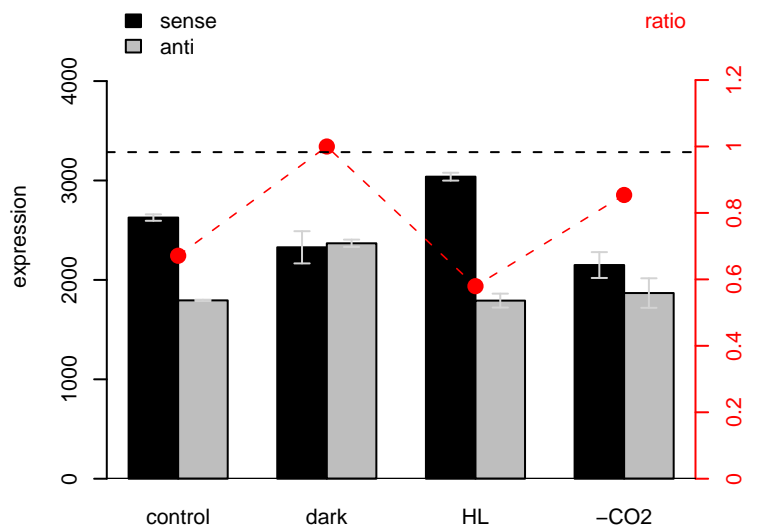
**genome\_166**



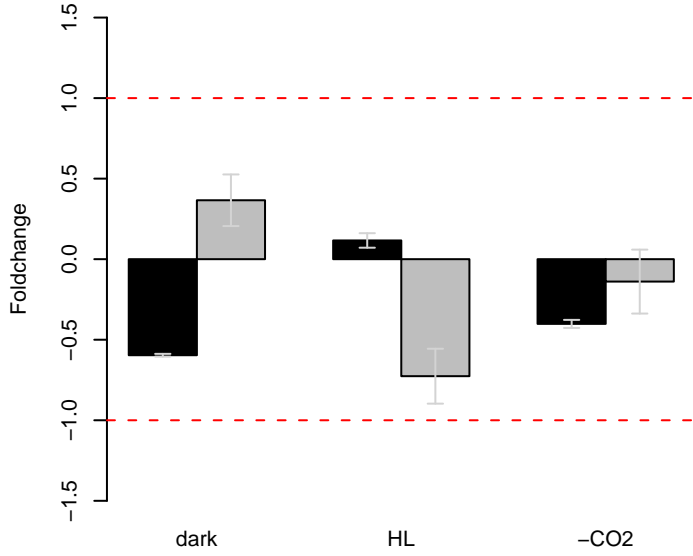
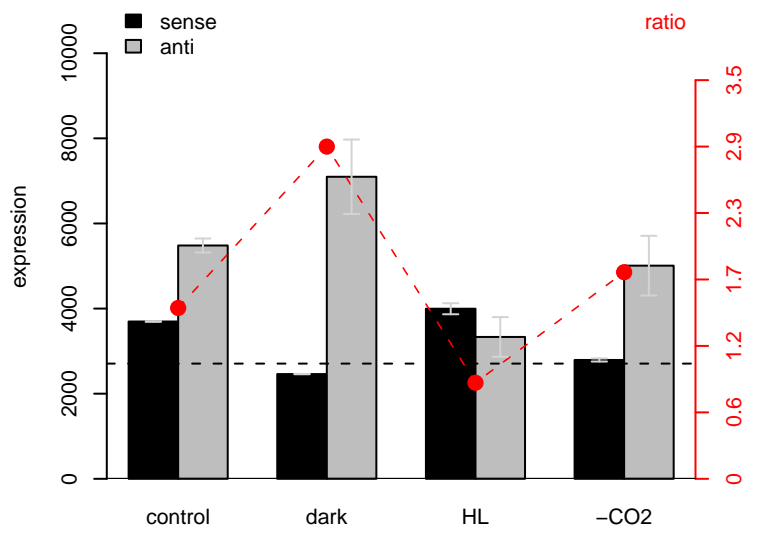
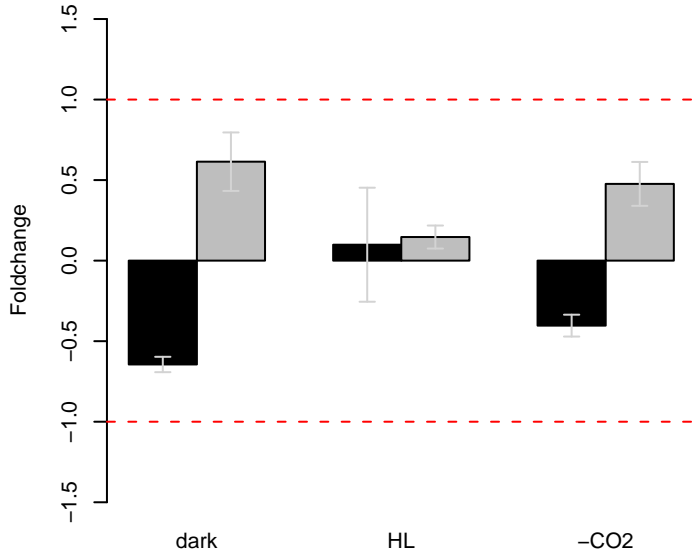
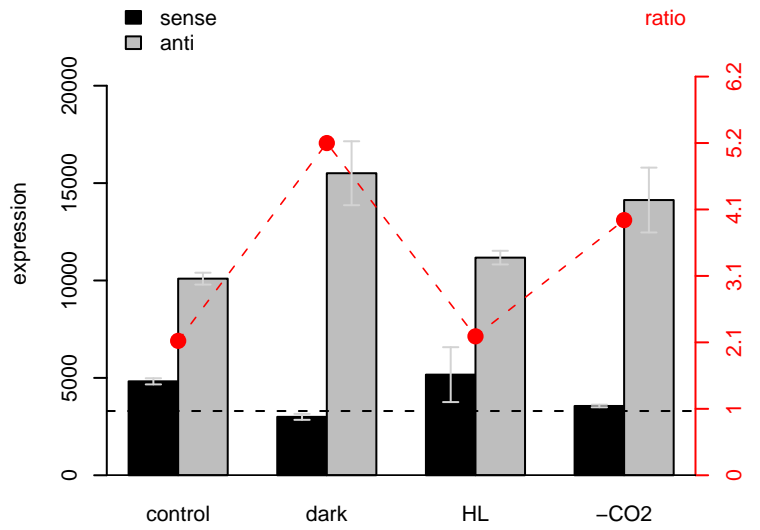
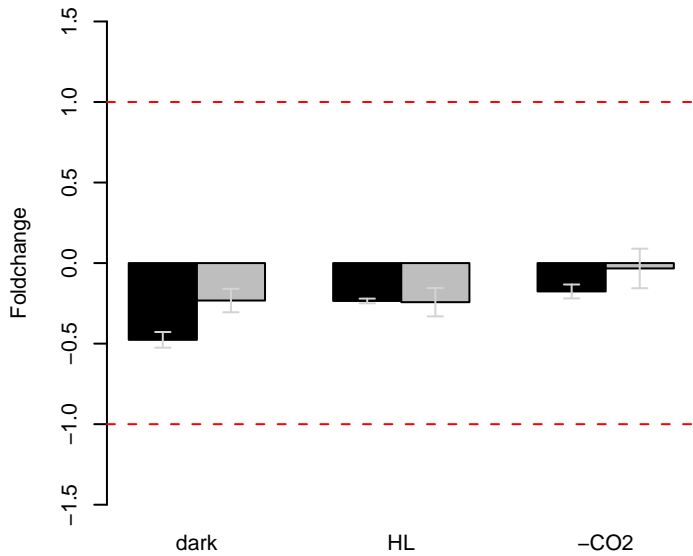
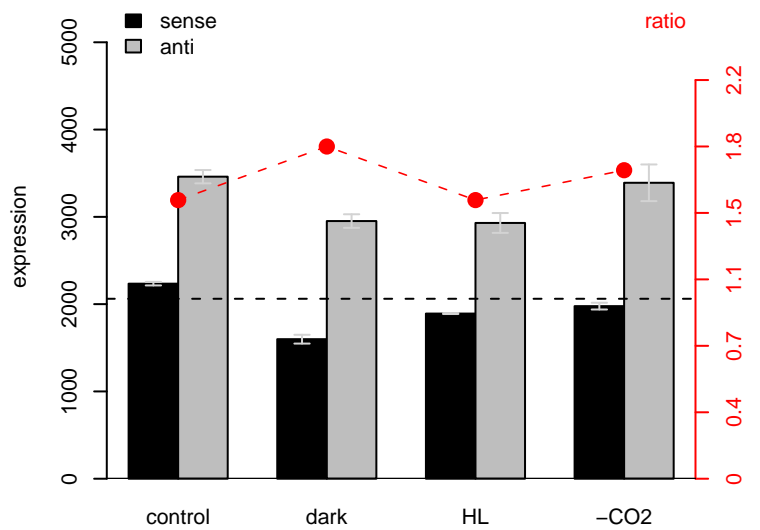
**murQ(sII0861)**

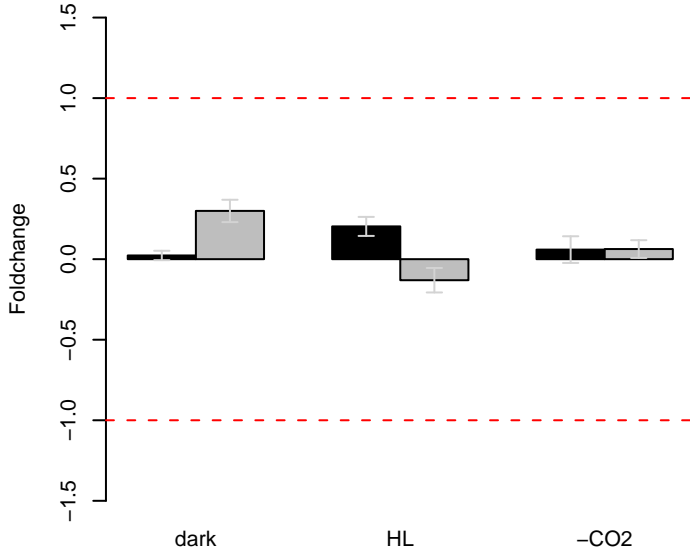
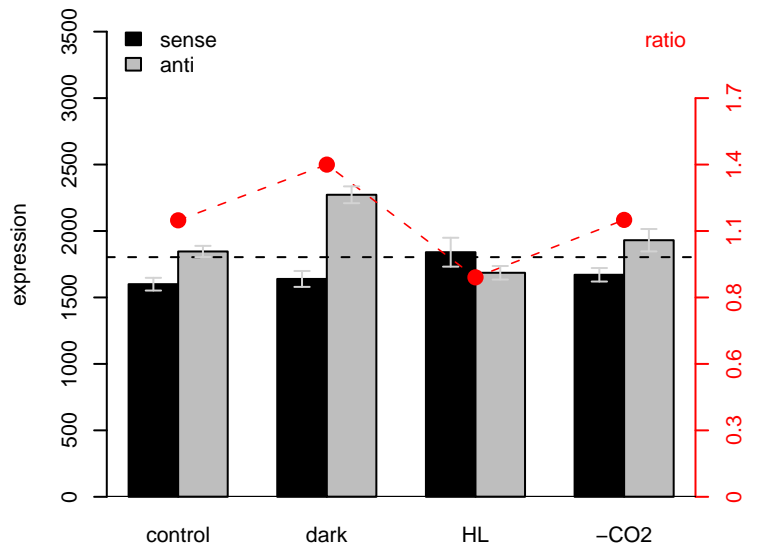
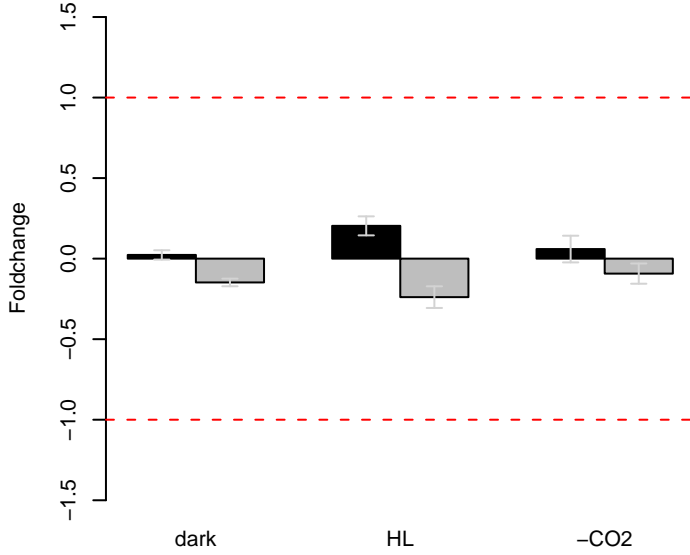
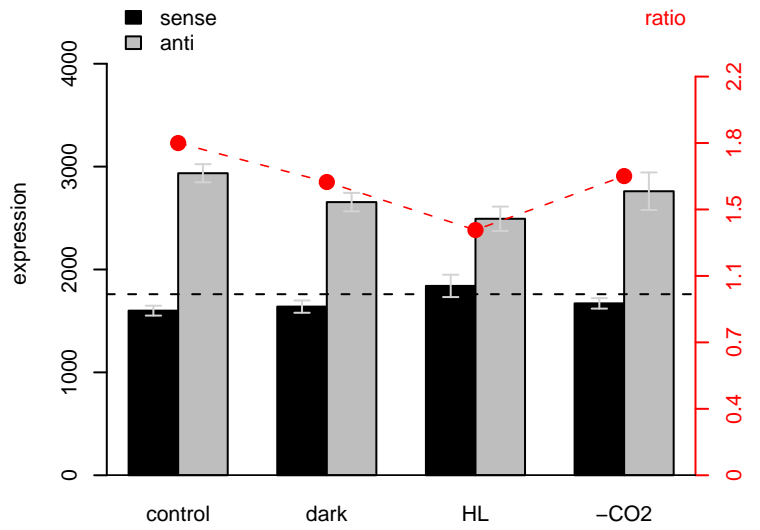
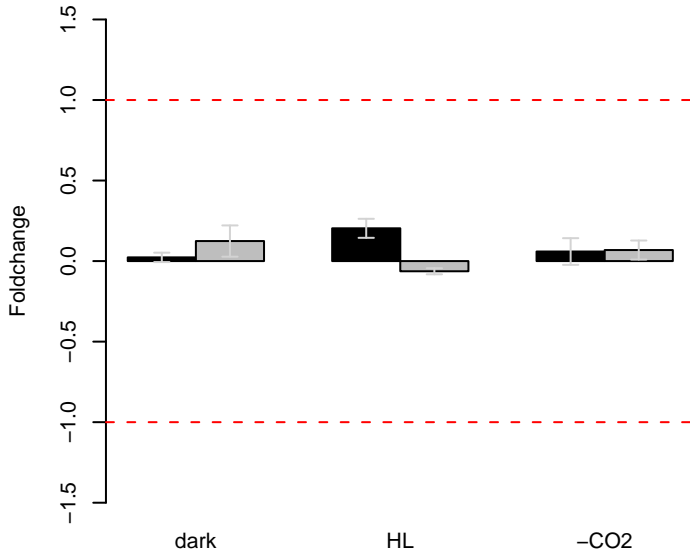
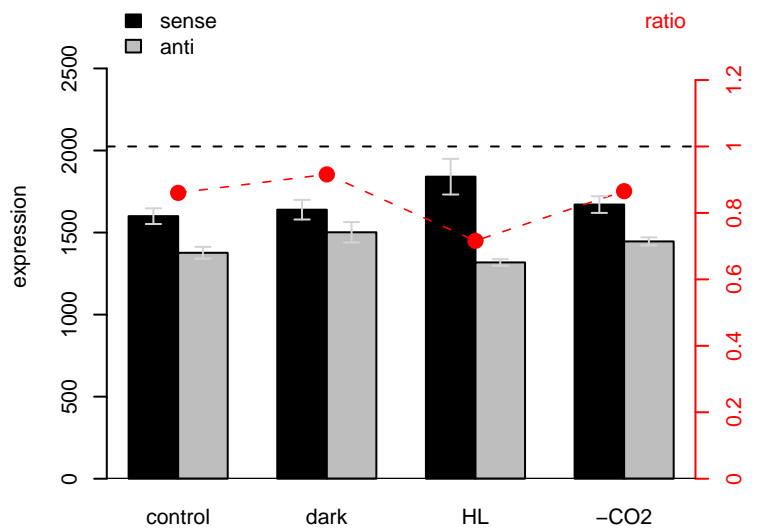


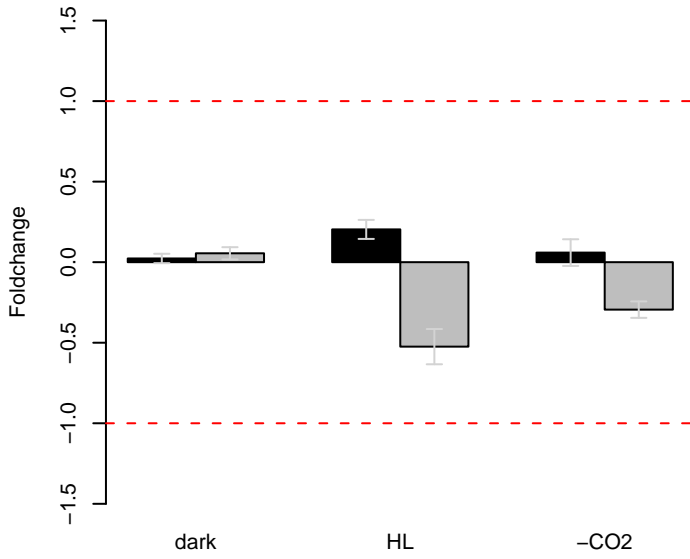
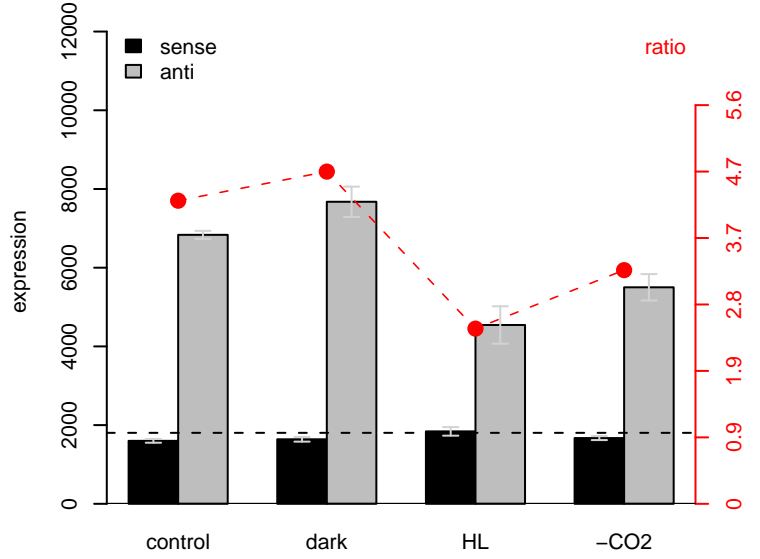
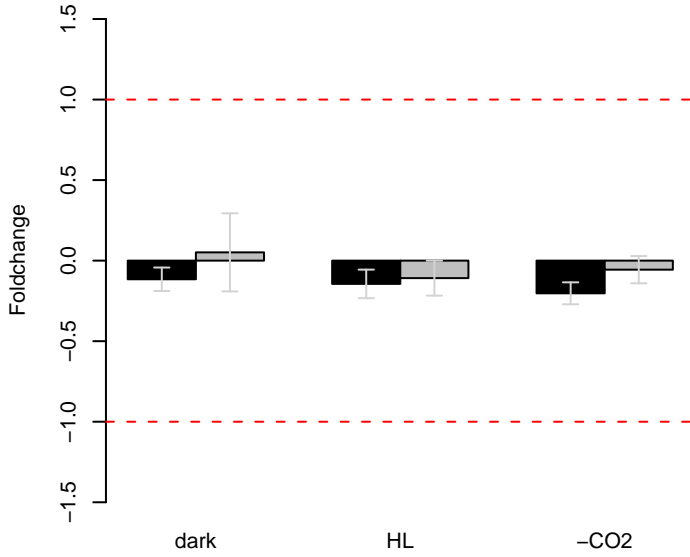
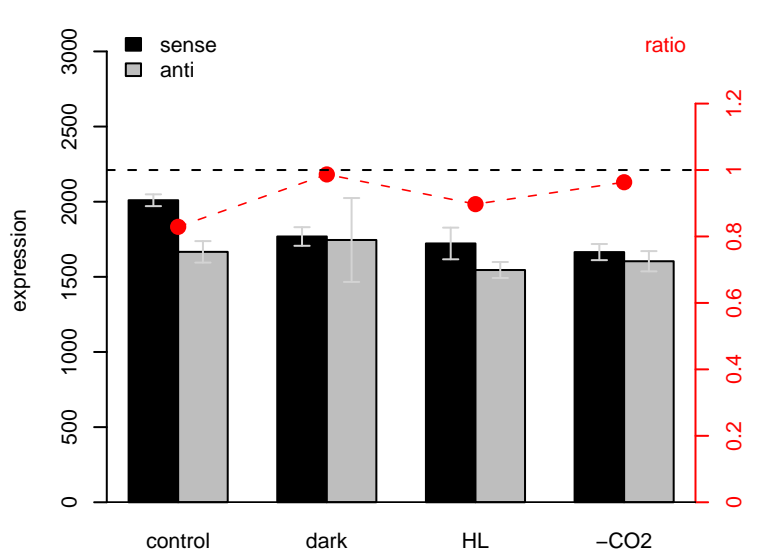
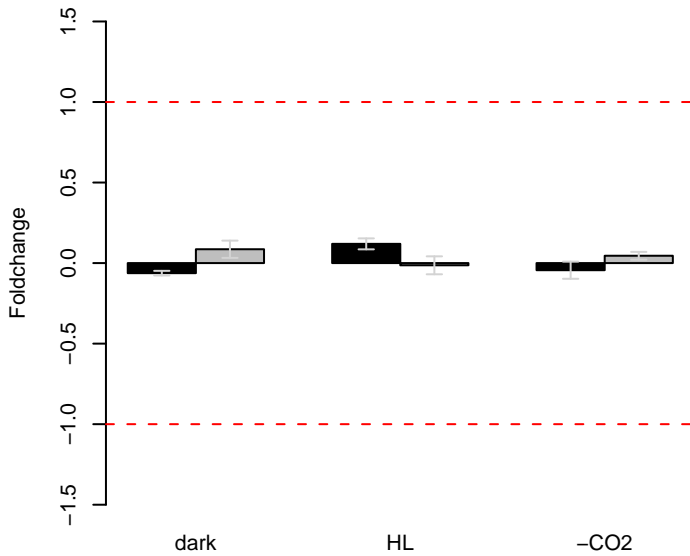
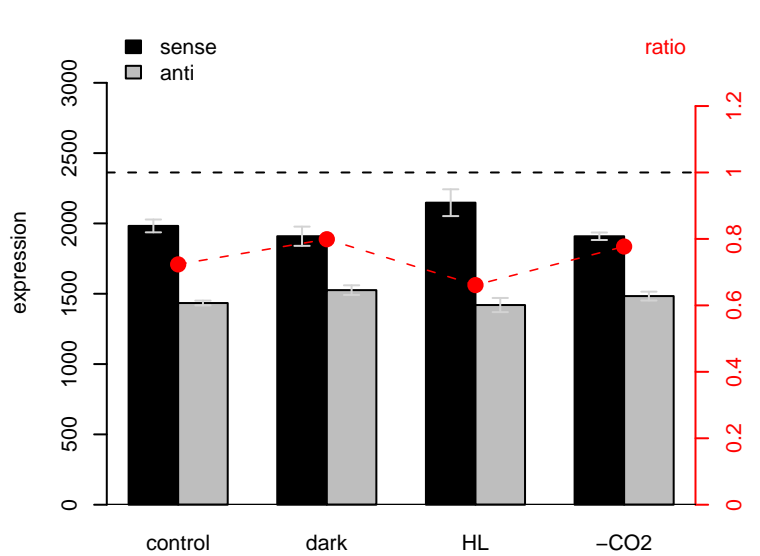
**genome\_1669**

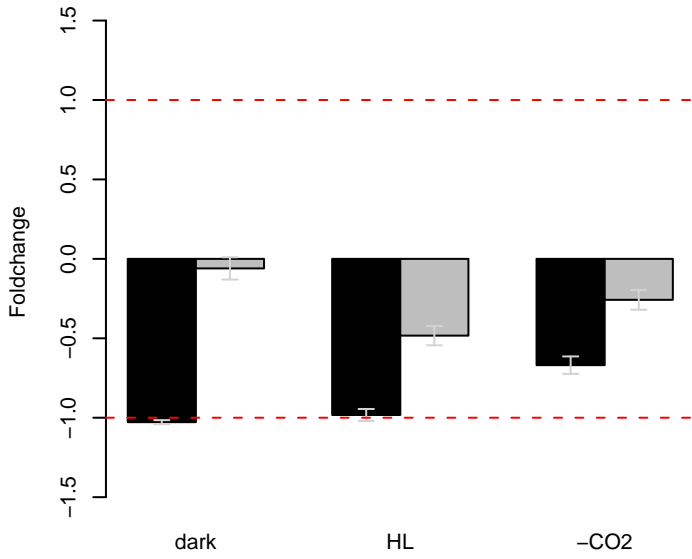
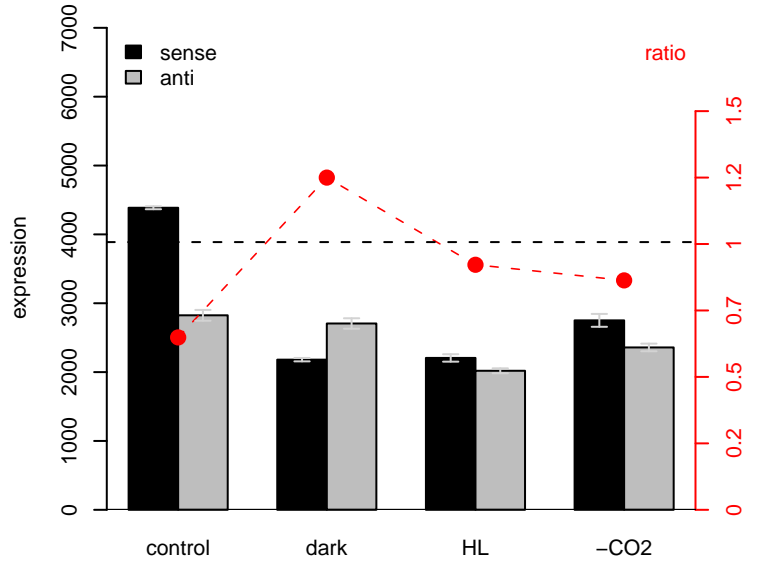
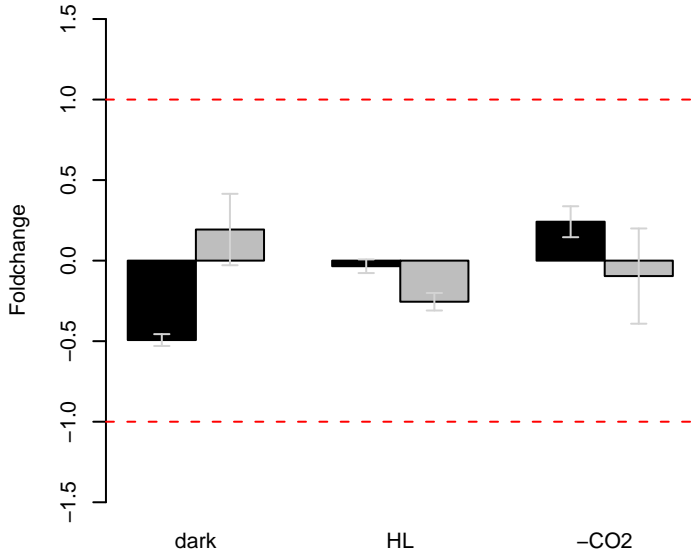
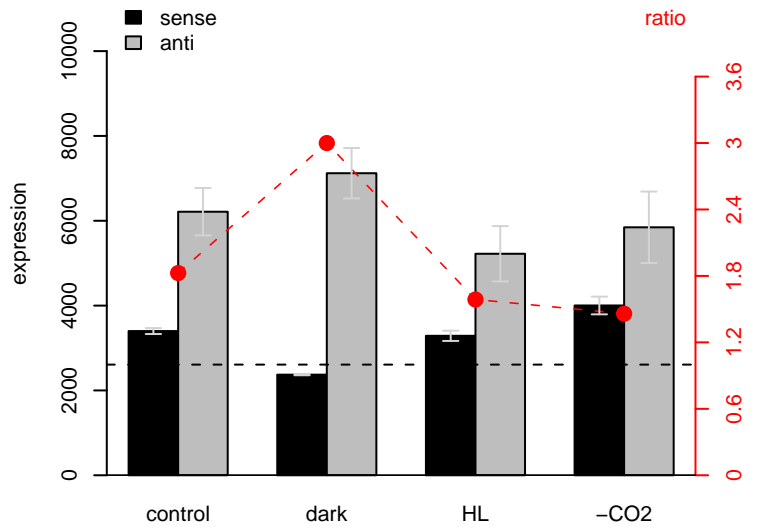
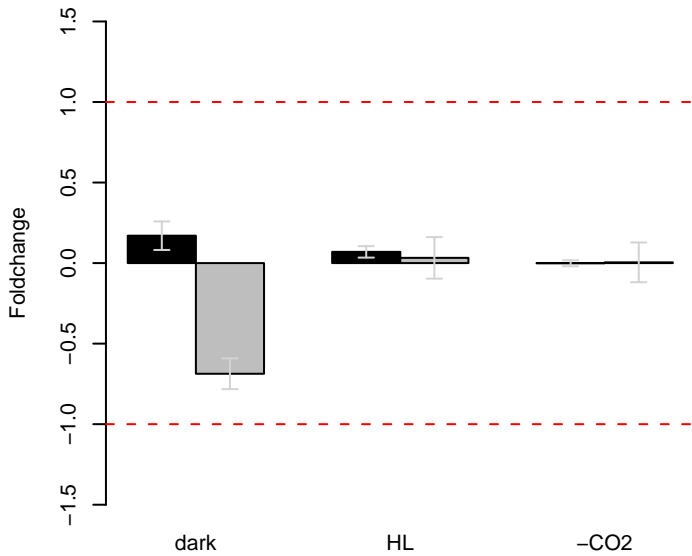
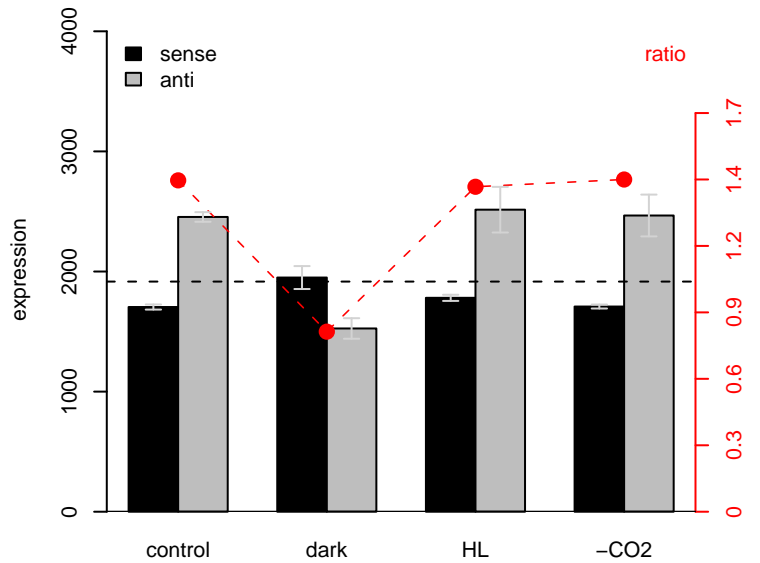




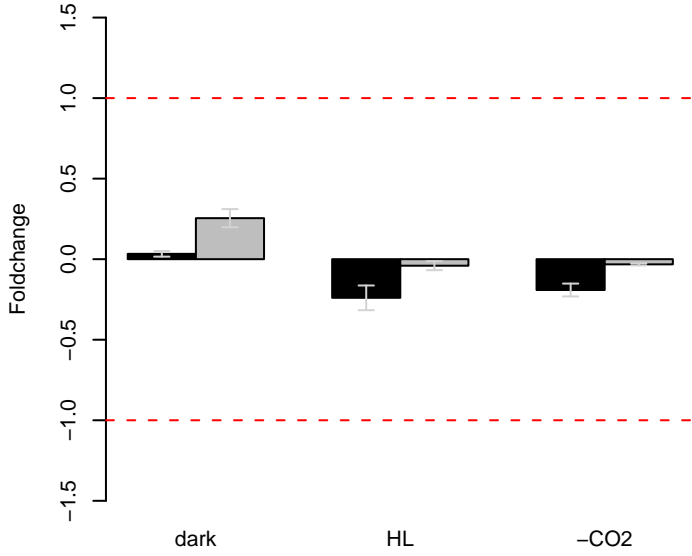
**sli0860****genome\_1672****ssl2595****genome\_1677****sli1315****genome\_1679**

**slr1403****genome\_1682****slr1403****genome\_1682****slr1403****genome\_1682**

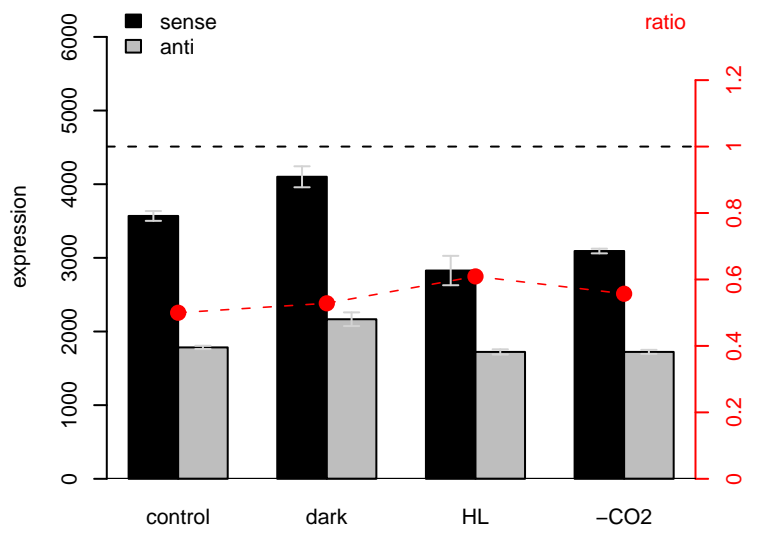
**slr1403****genome\_1682****sll1308****genome\_1687****ligA(sll1209)****genome\_16**

**slr1855****genome\_1705****slr0740****genome\_170****slr1866****genome\_1720**

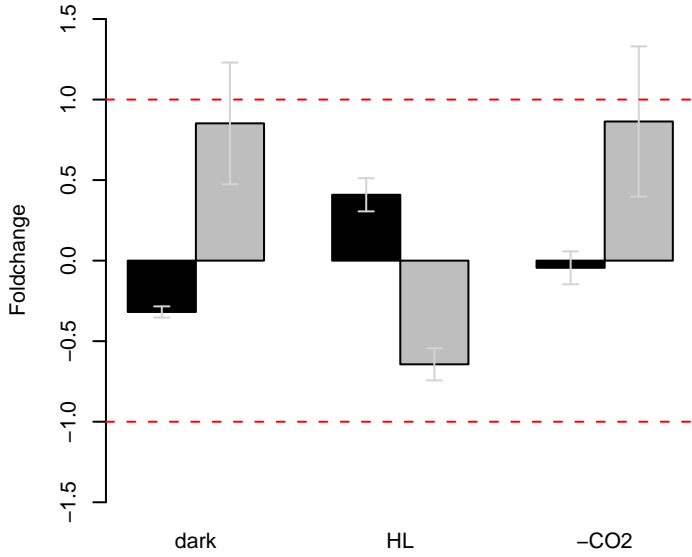
**trpD(slr1867)**



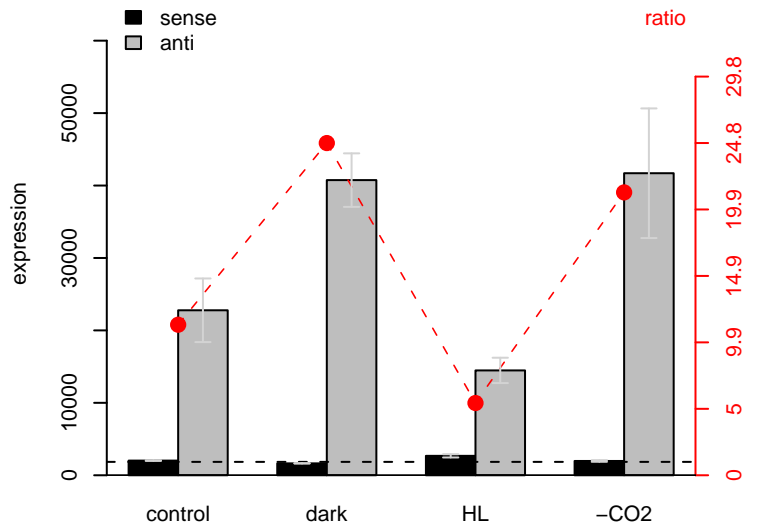
**genome\_1723**



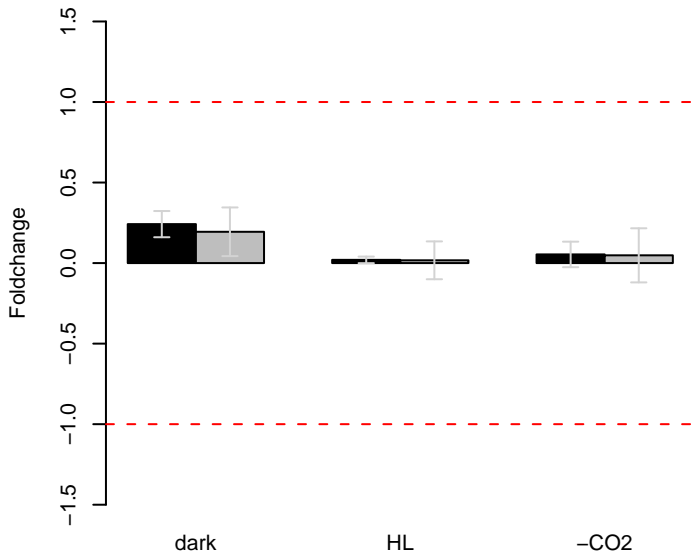
**sll1775**



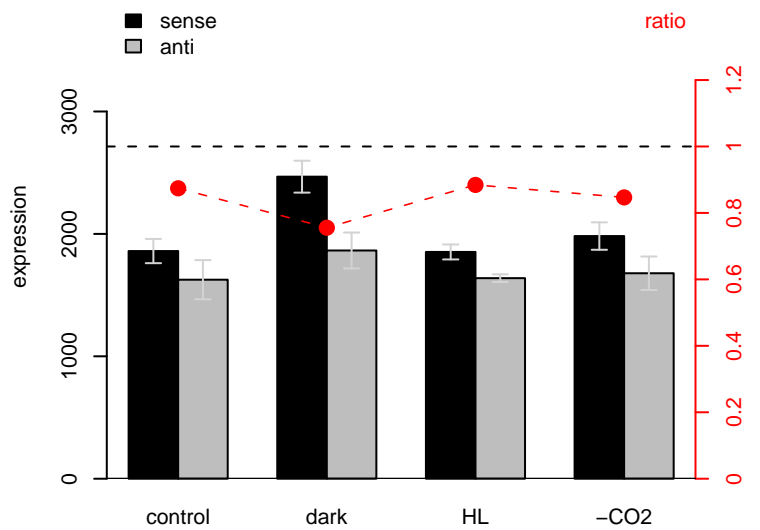
**genome\_1726**

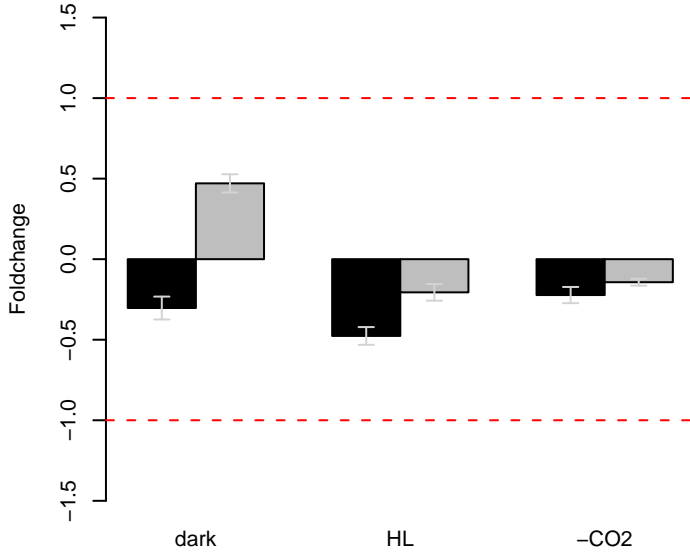
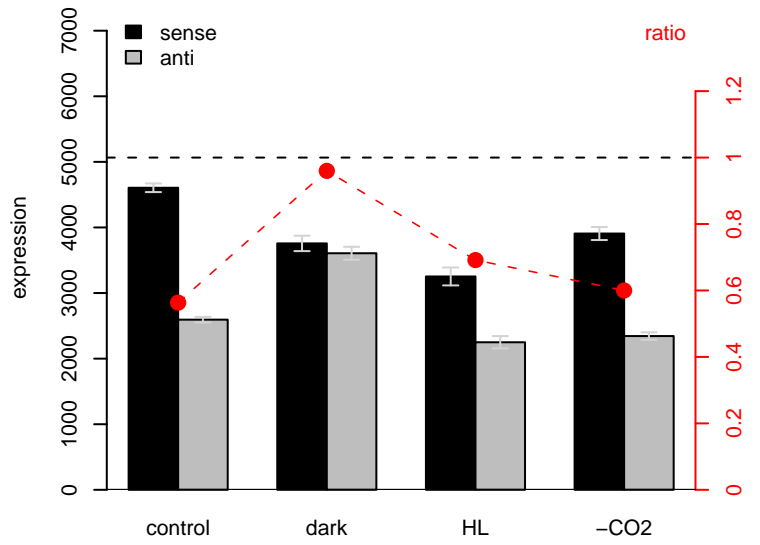
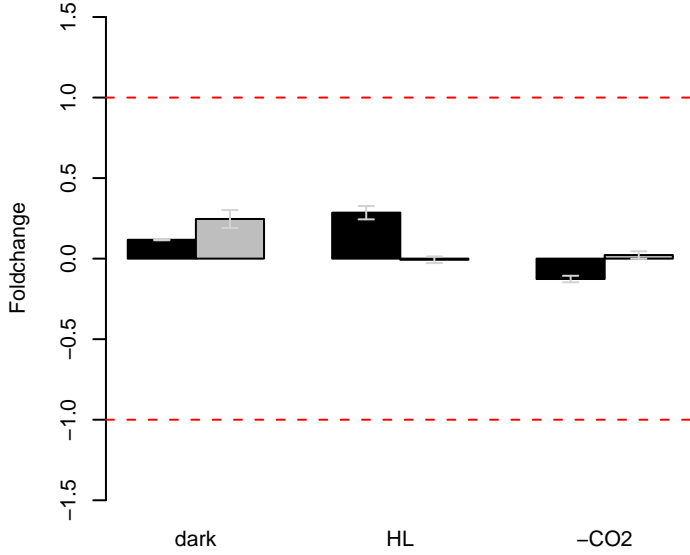
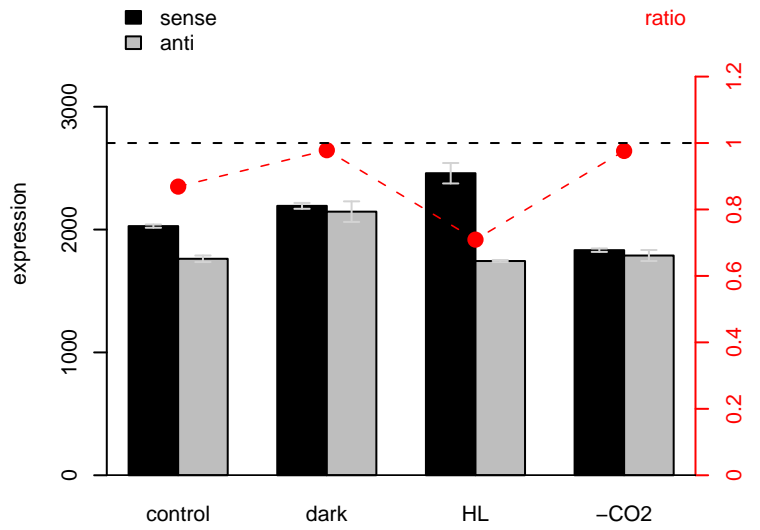
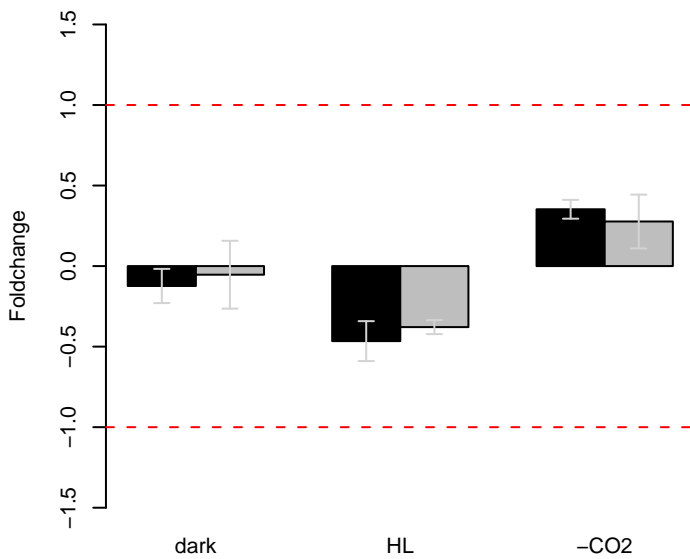
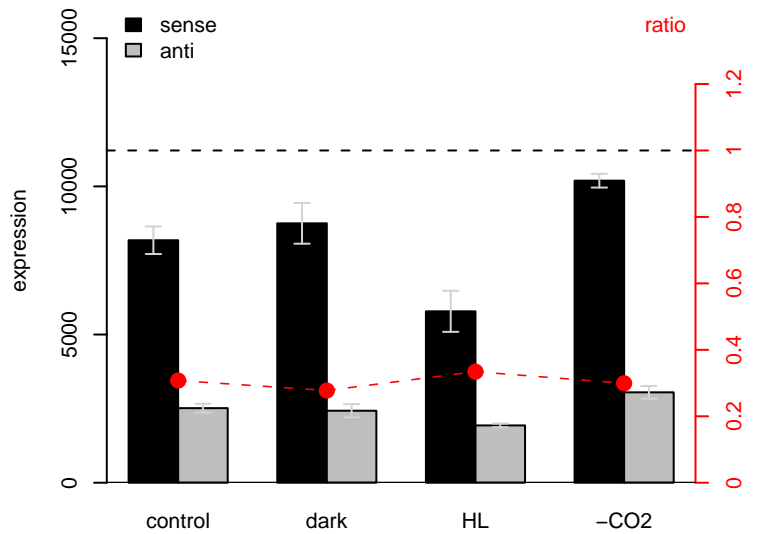


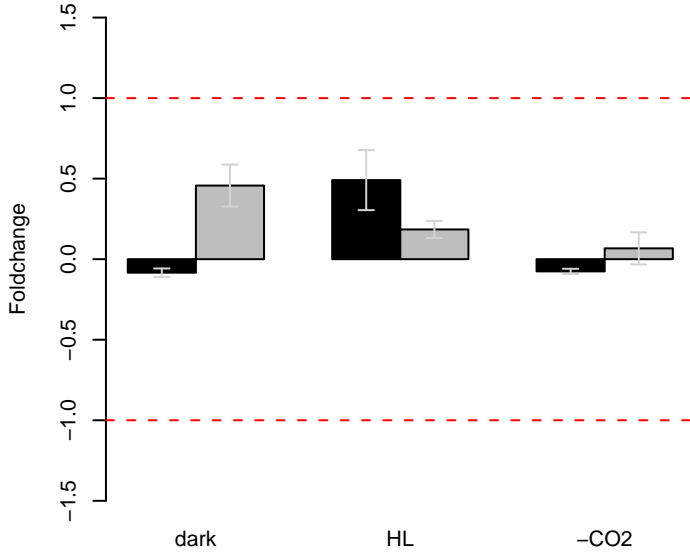
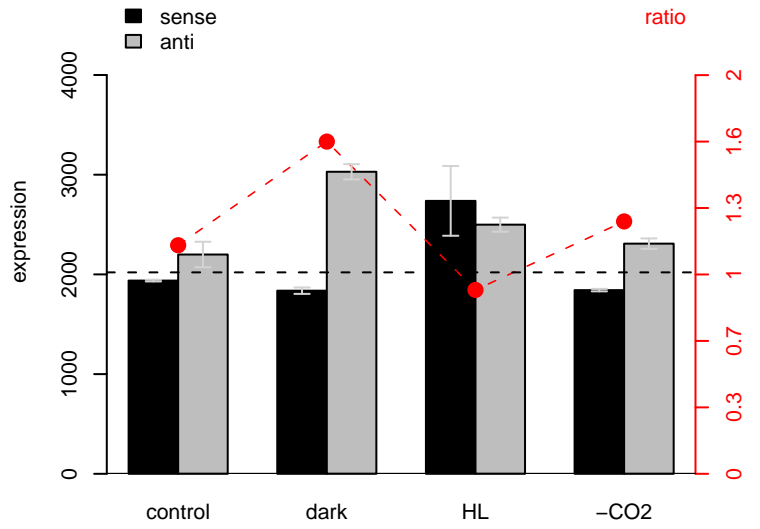
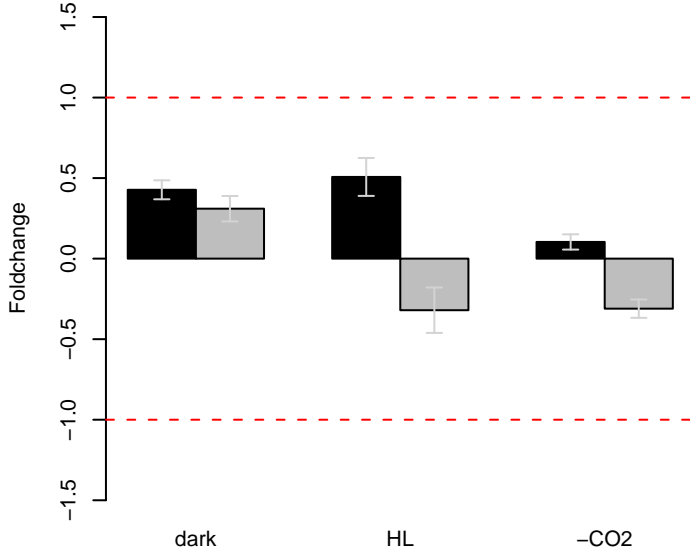
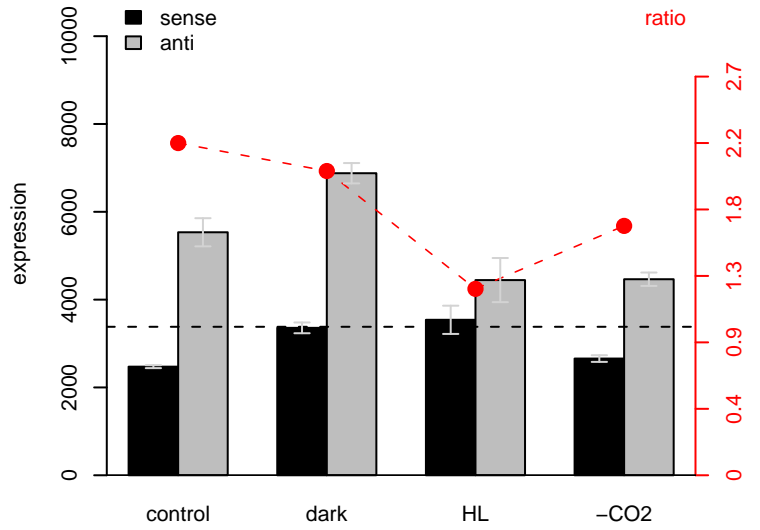
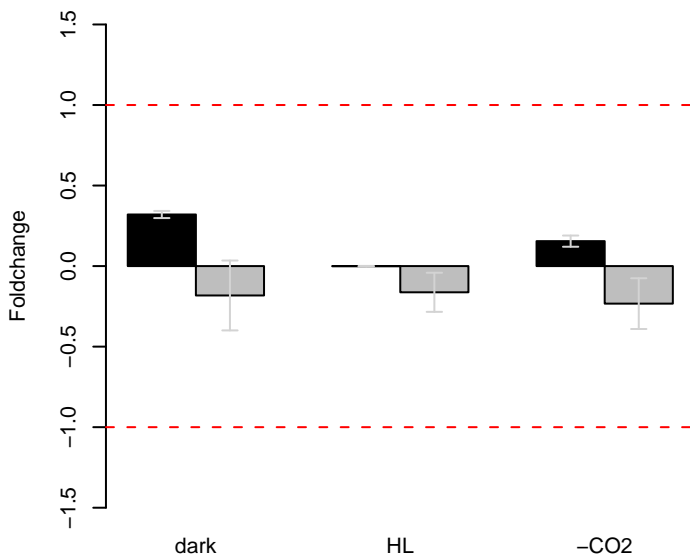
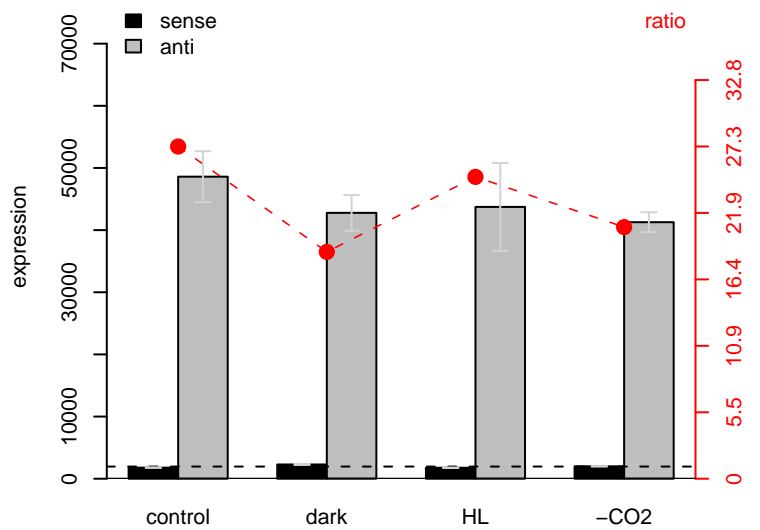
**sll0696**



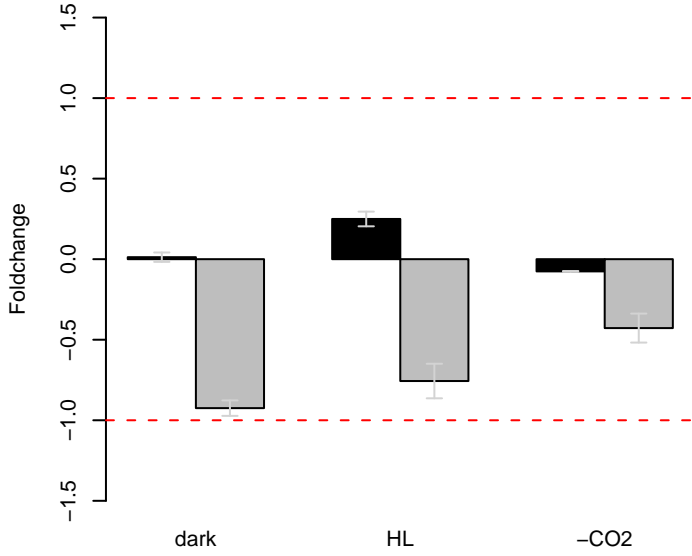
**genome\_172**



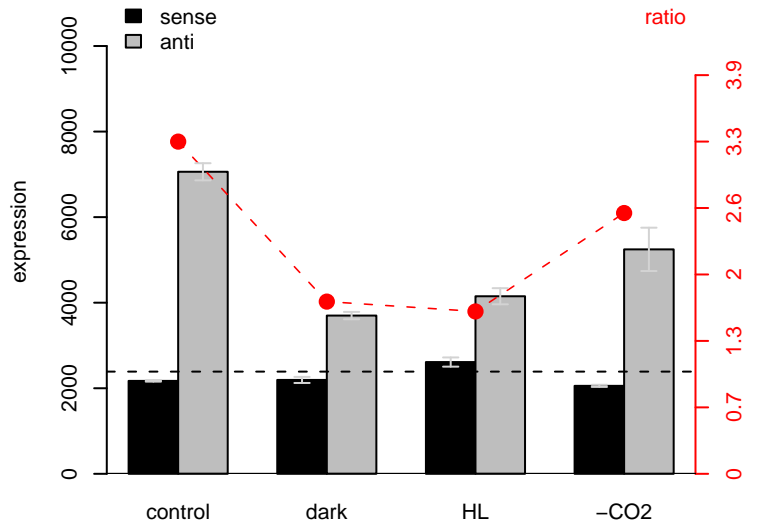
**slr1869****genome\_1729****mutS(sll1772)****genome\_1736****ssl3382****genome\_1745**

**exoD(slr1875)****genome\_1748****clpS(ssl3379)****genome\_1751****slr1876****genome\_1752**

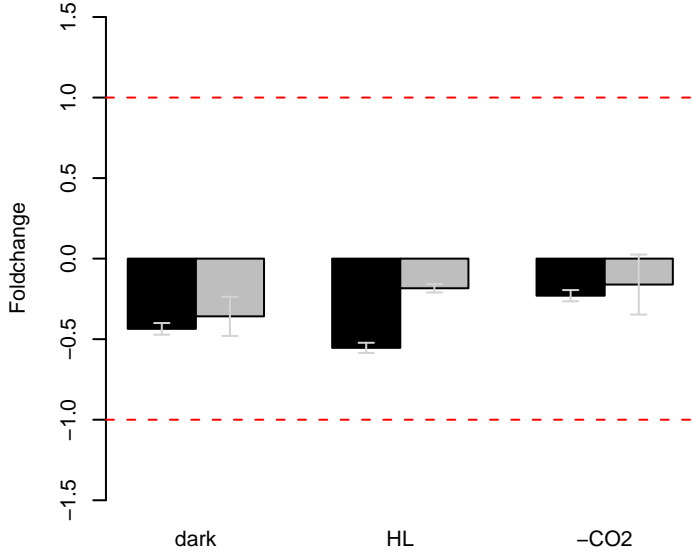
**cpcE(slr1878)**



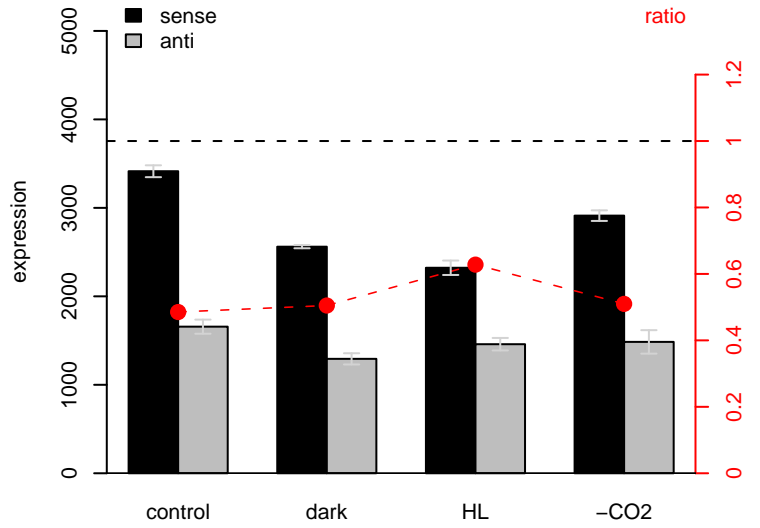
**genome\_1757**



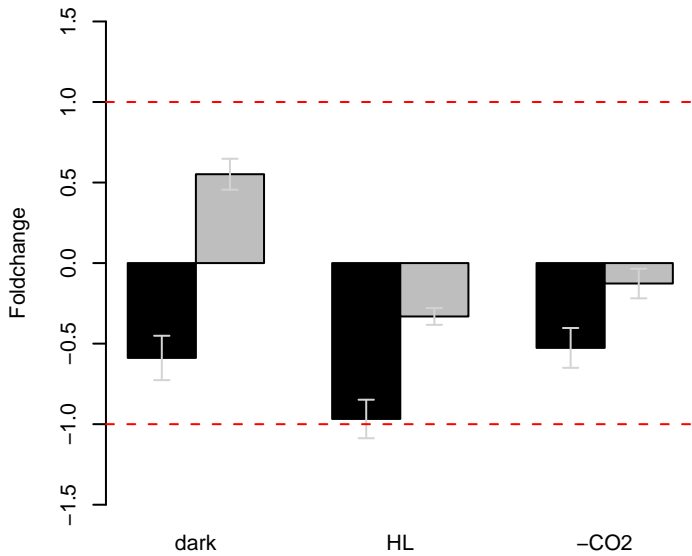
**asIB(sll1766)**



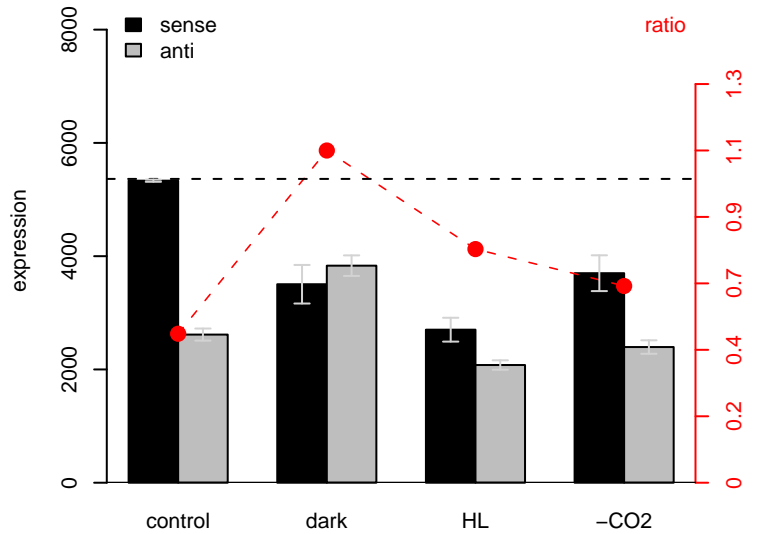
**genome\_1759**



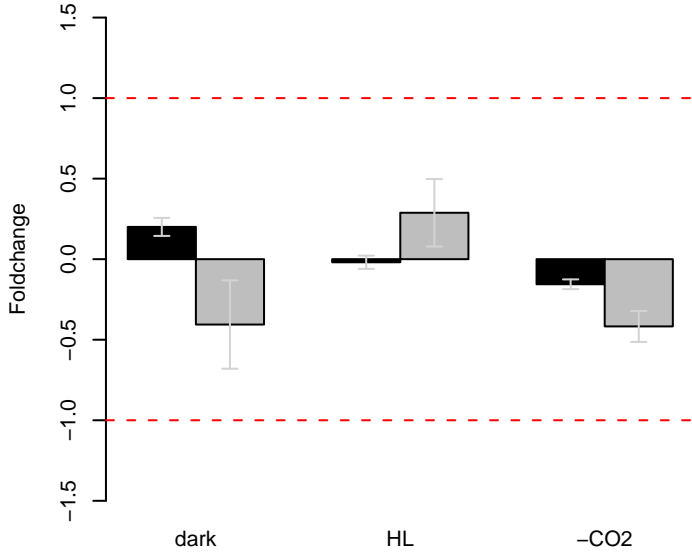
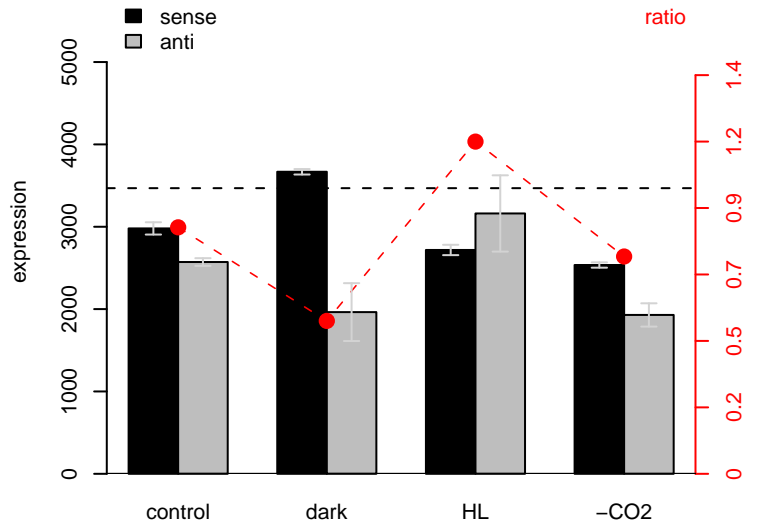
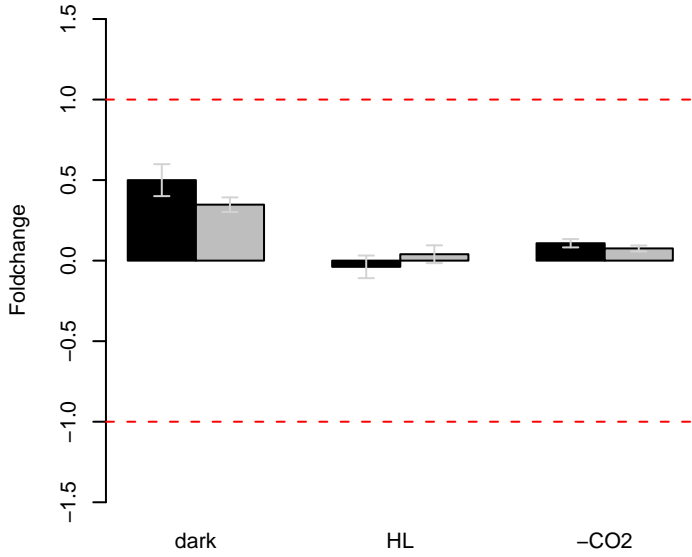
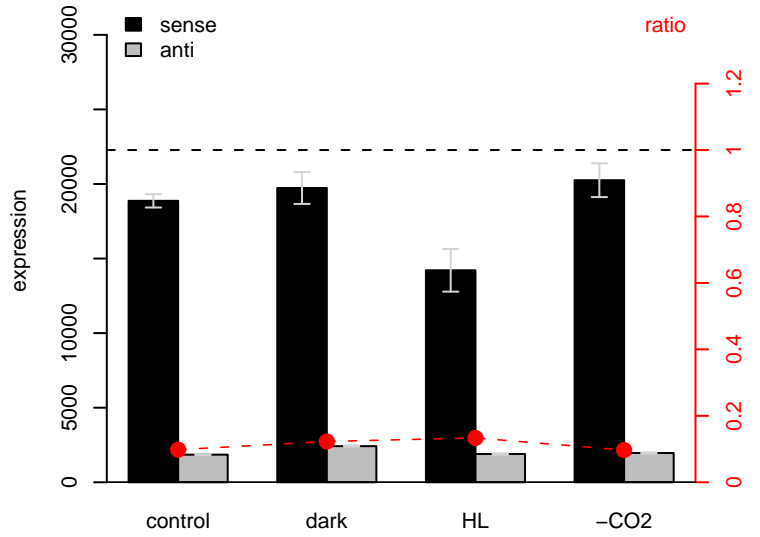
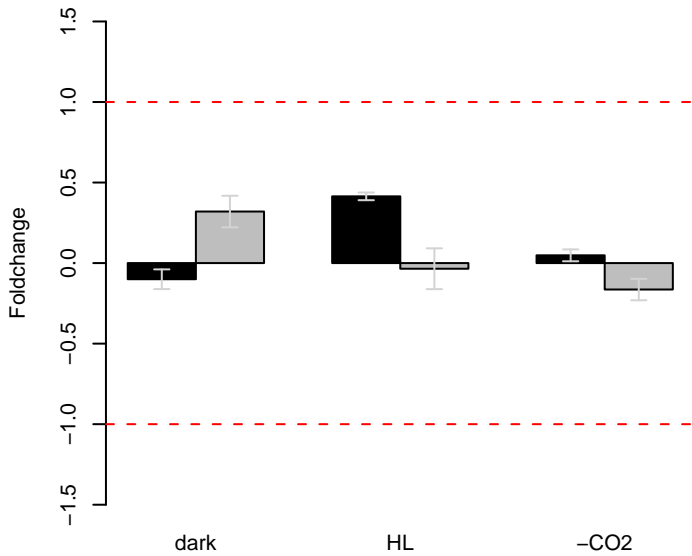
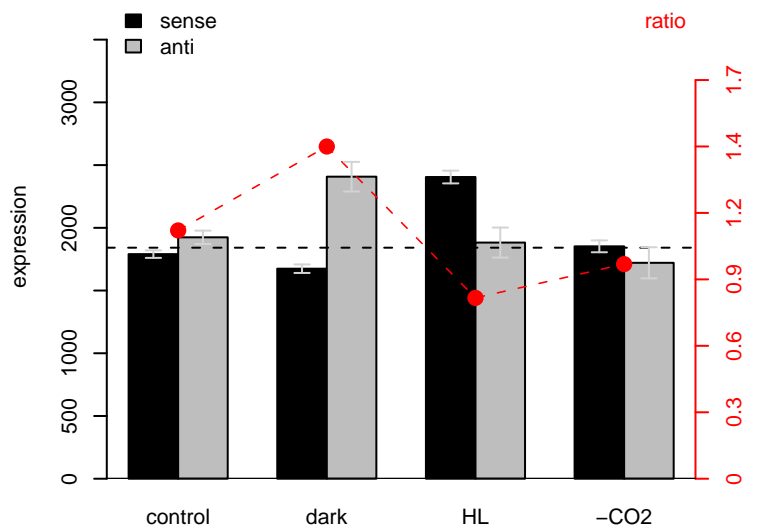
**sll1762**

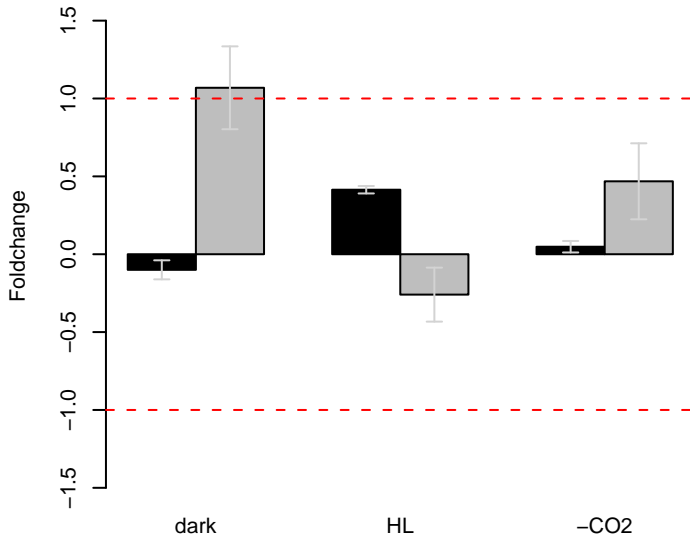
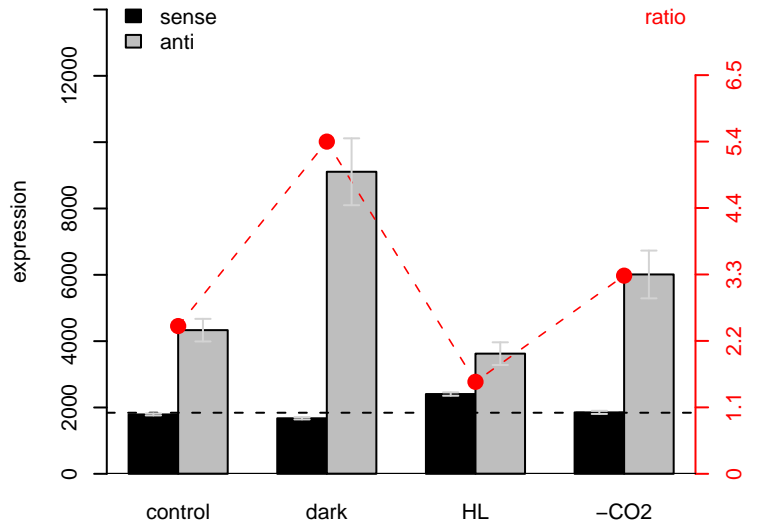
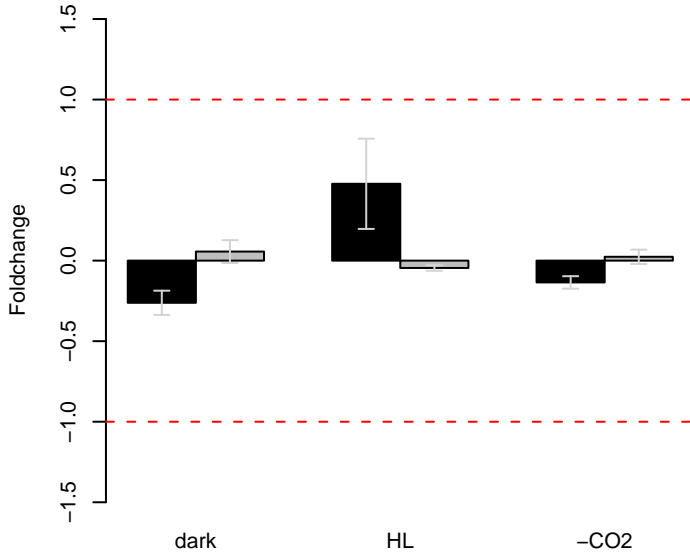
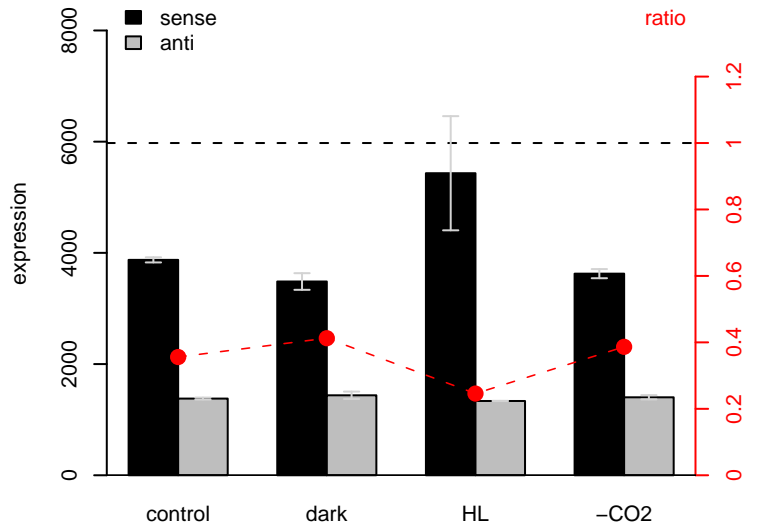
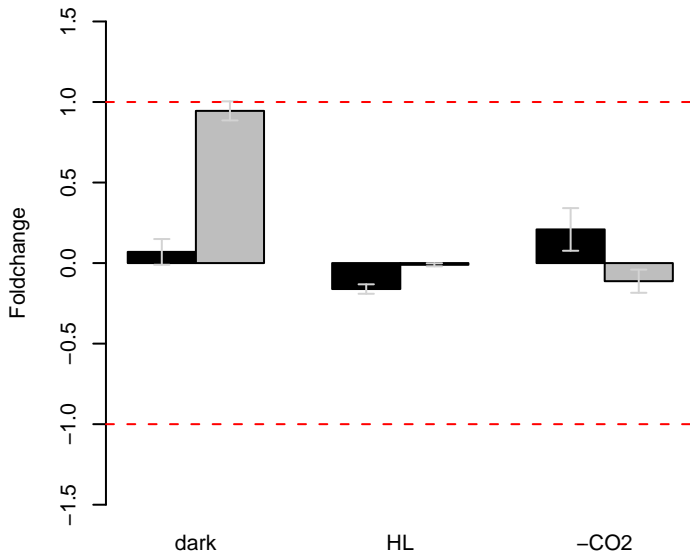
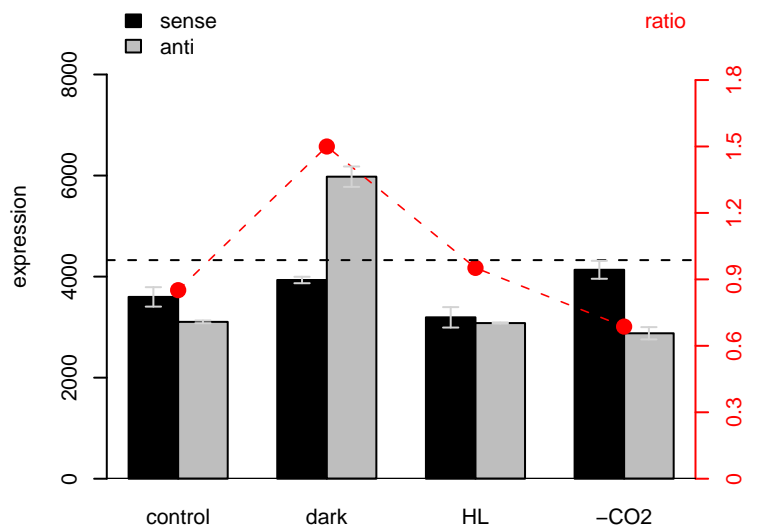


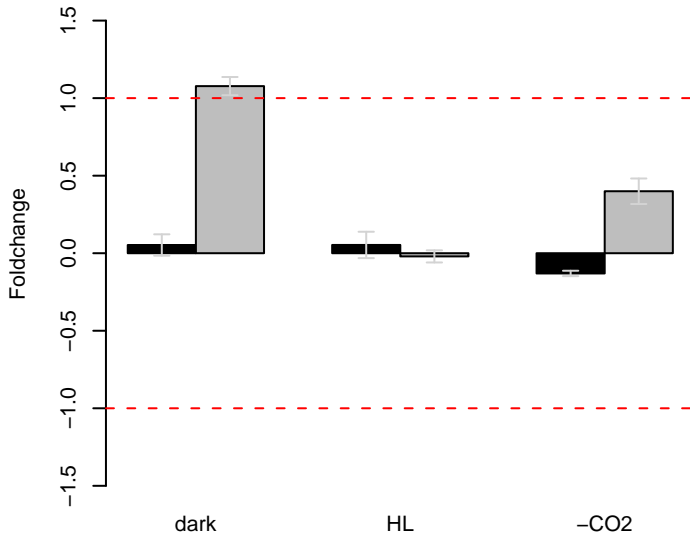
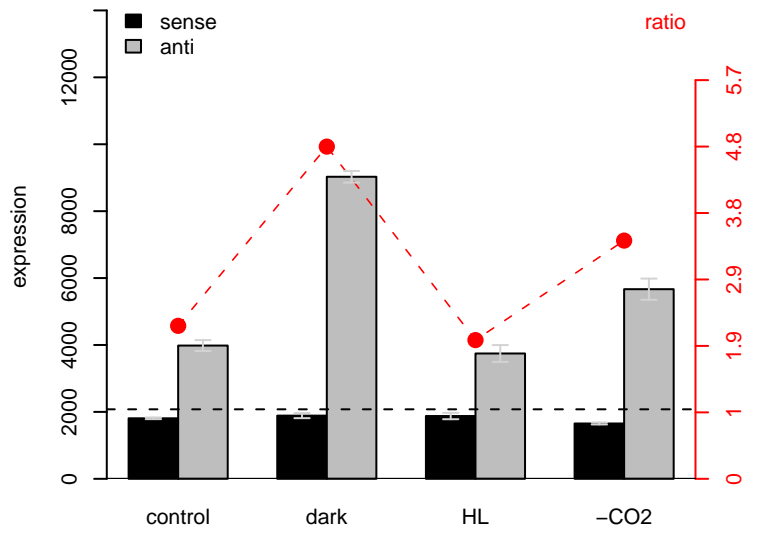
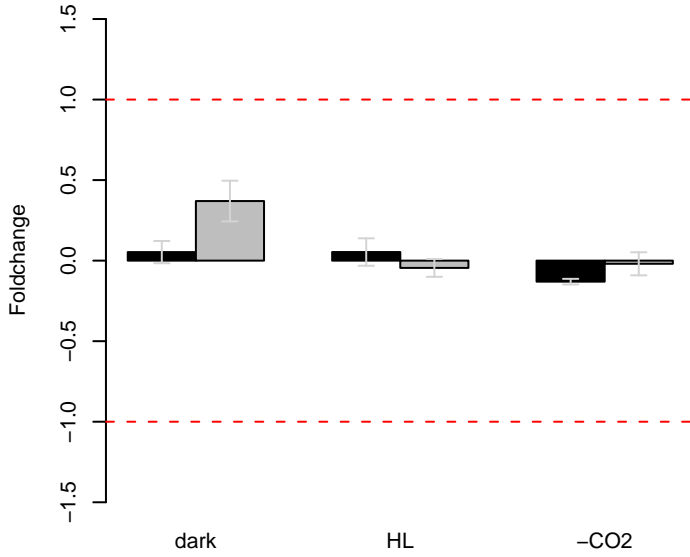
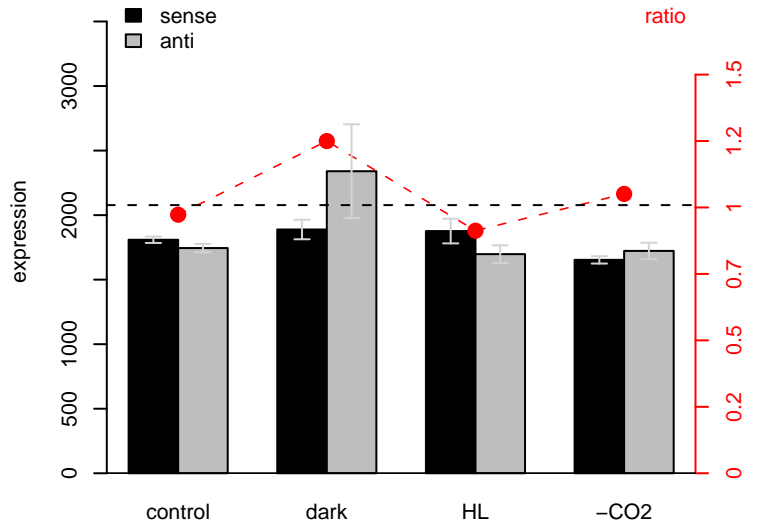
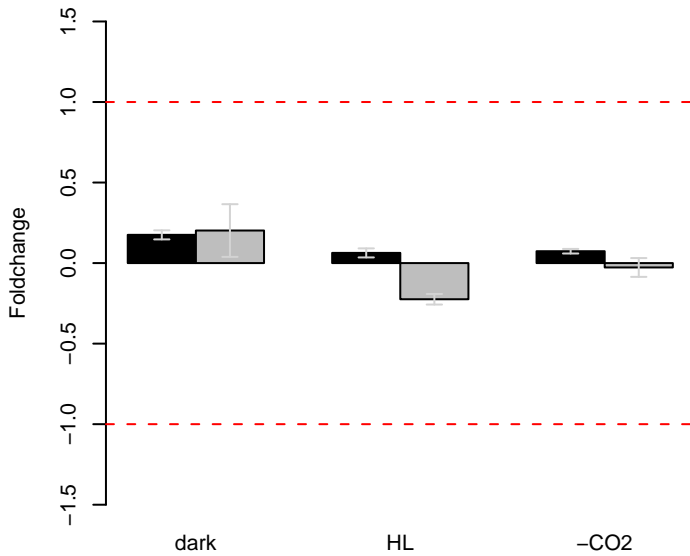
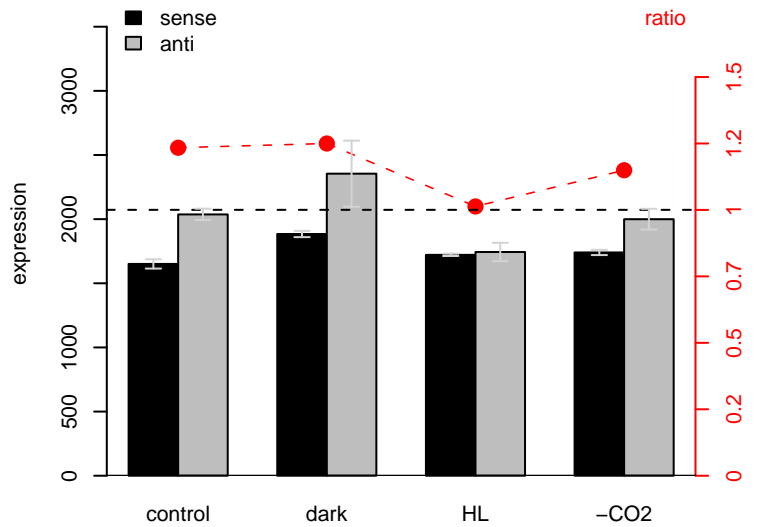
**genome\_1764**



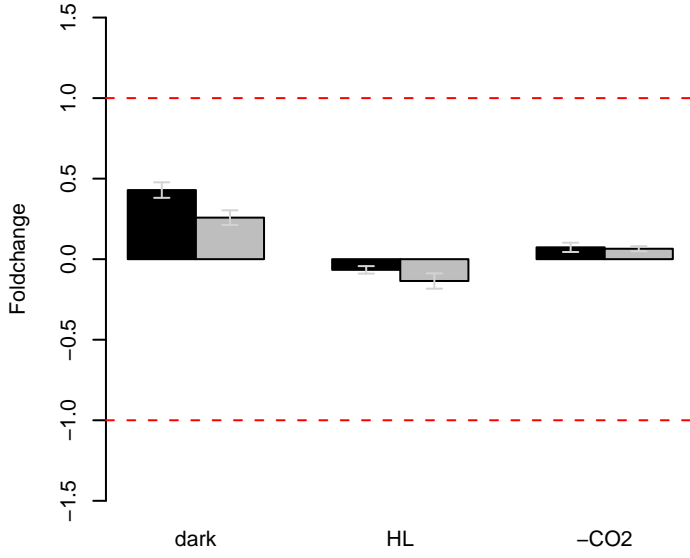


**thrB(sll1760)****genome\_1768****slr0743a****genome\_178****slr1882****genome\_1776**

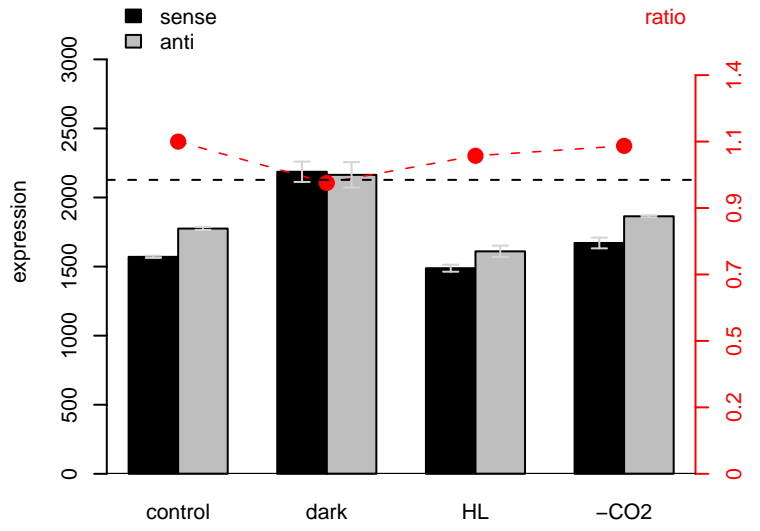
**slr1882****genome\_1776****sll1757****genome\_1778****ssr3188****genome\_1781**

**sll1755****genome\_1787****sll1755****genome\_1787****slr1888****genome\_1791**

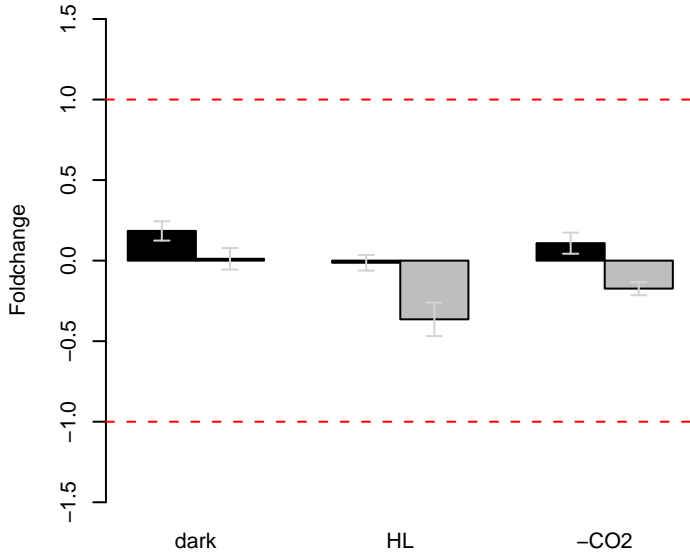
**pta(slr2132)**



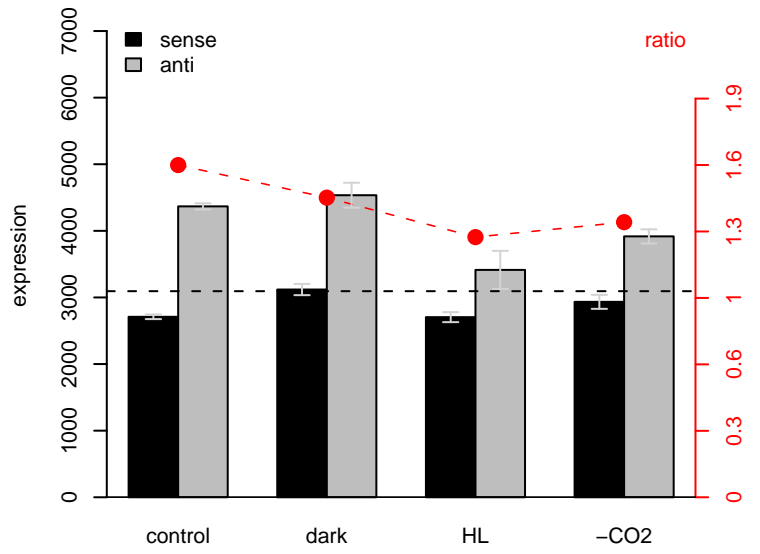
**genome\_1793**



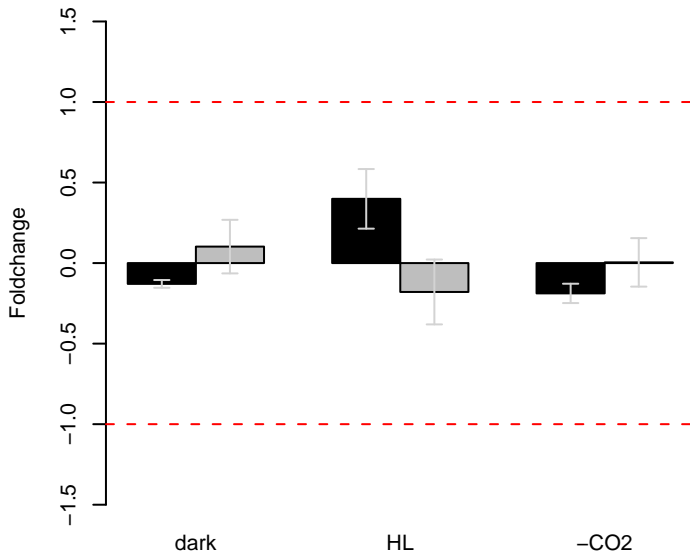
**slr1315**



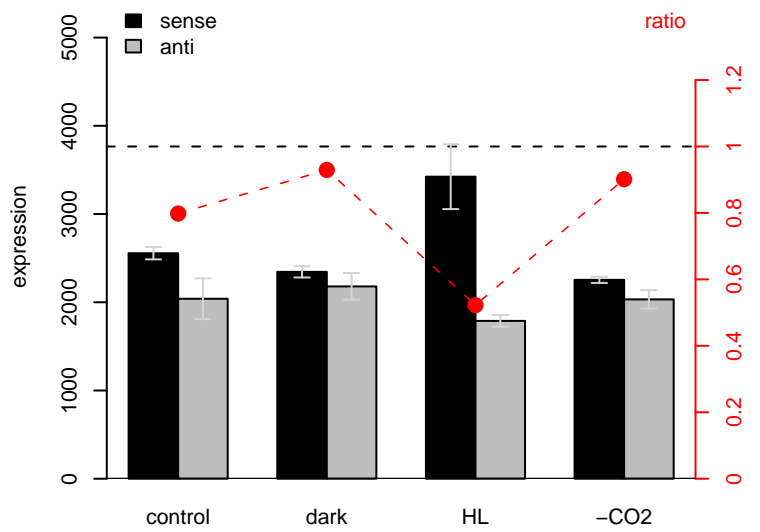
**genome\_19**



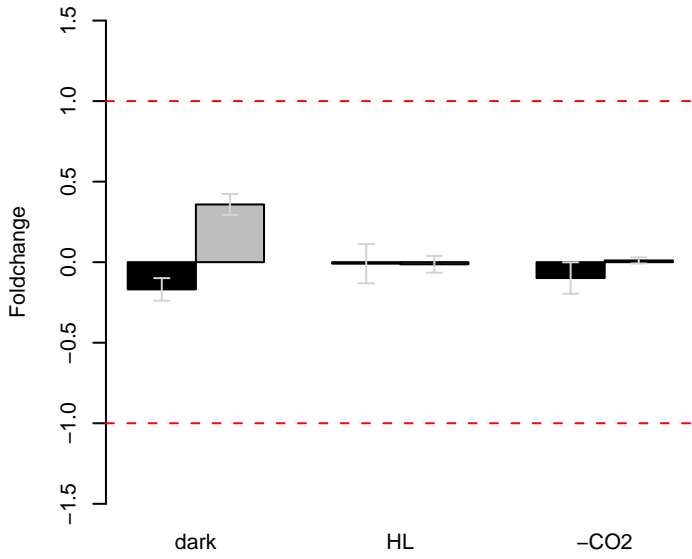
**murD(sll2010)**



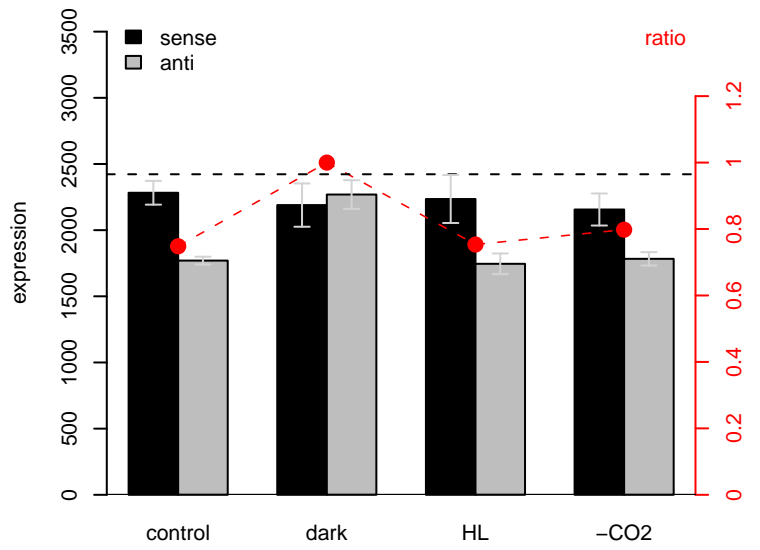
**genome\_1801**



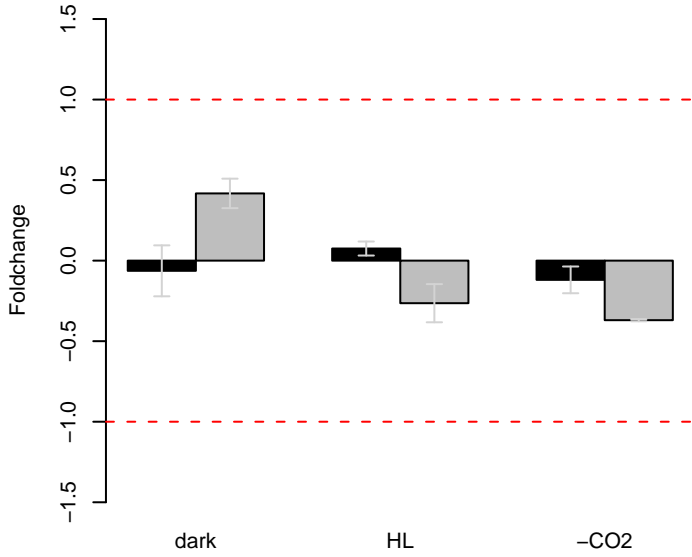
**sII2009**



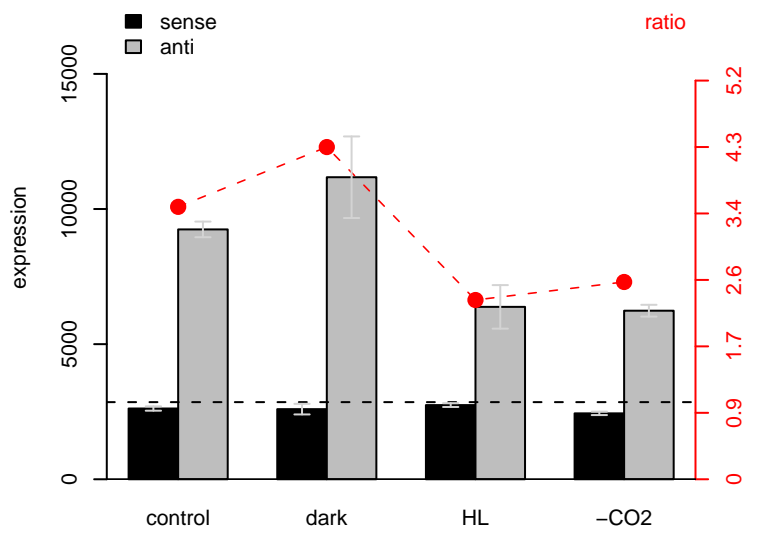
**genome\_1803**



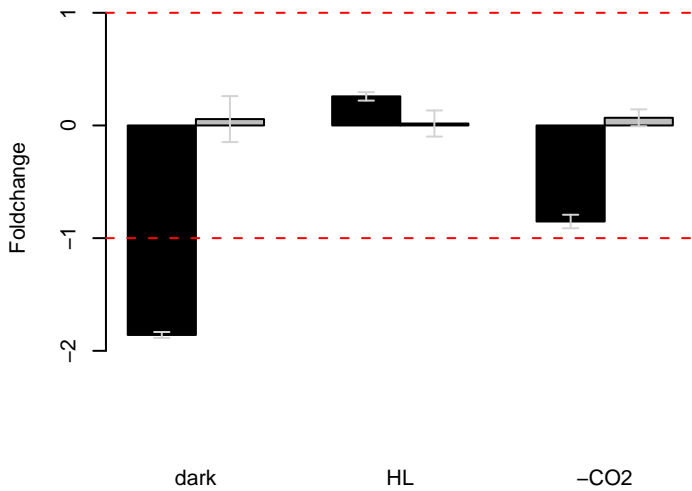
**sII2007**



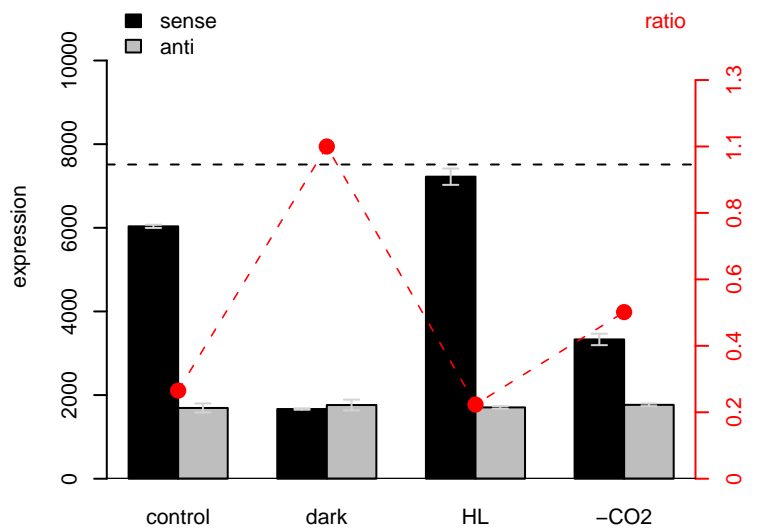
**genome\_1808**

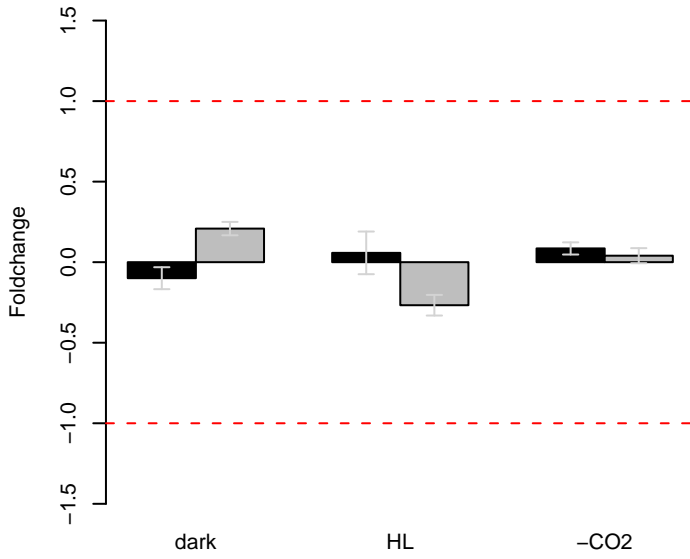
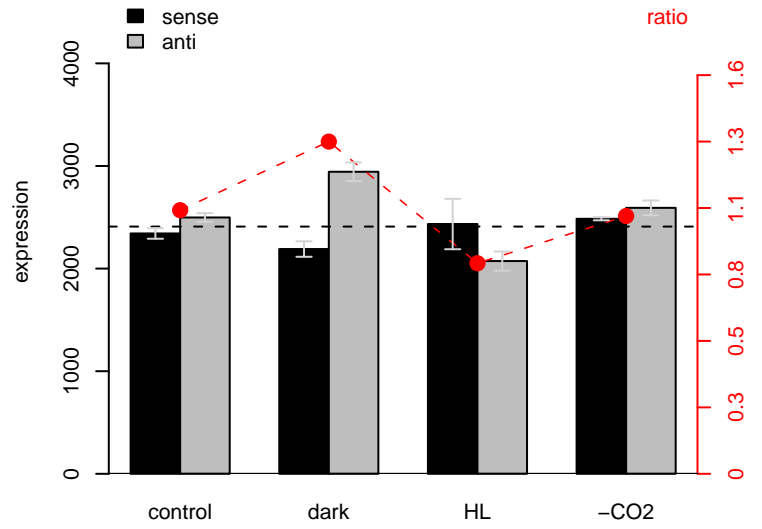
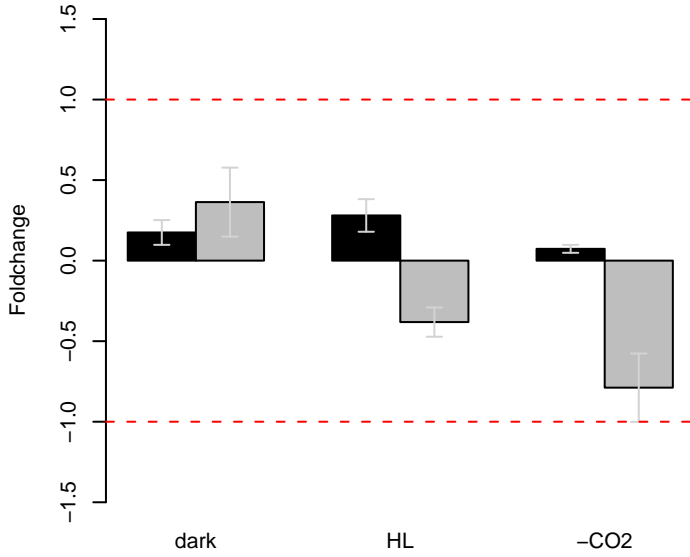
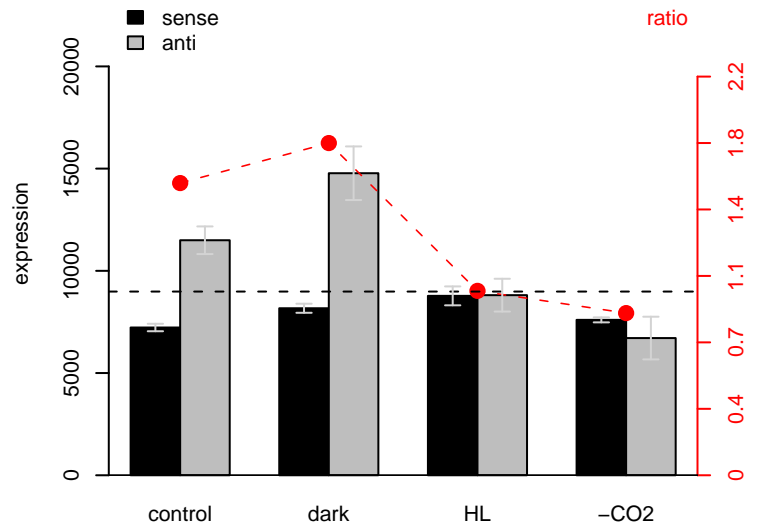
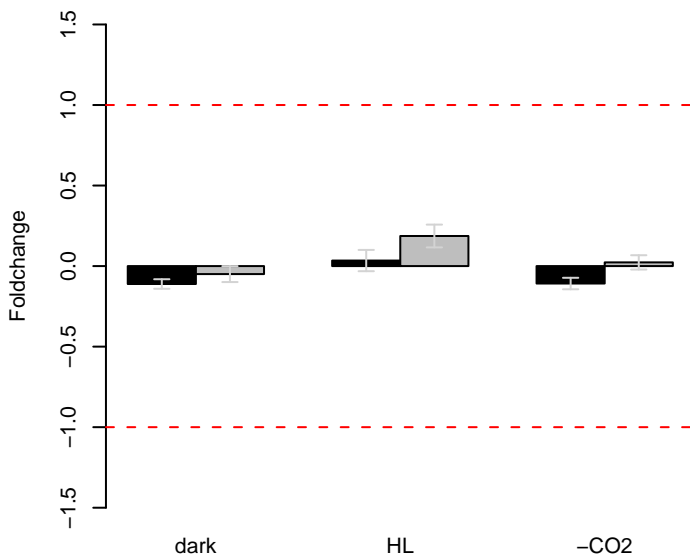
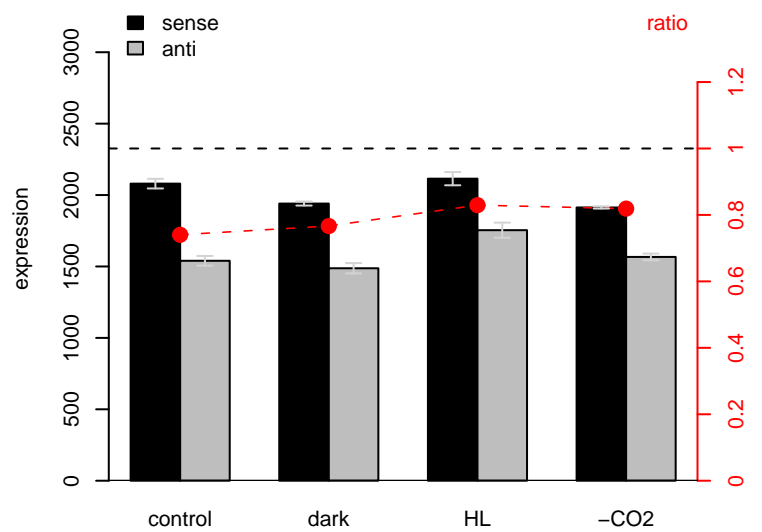


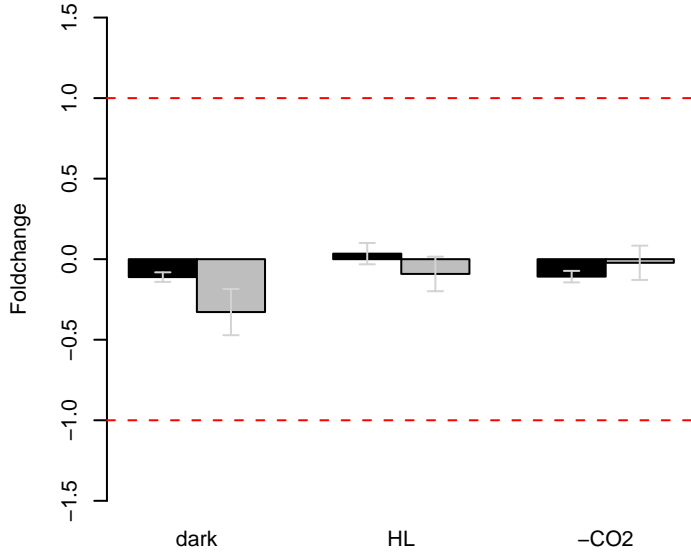
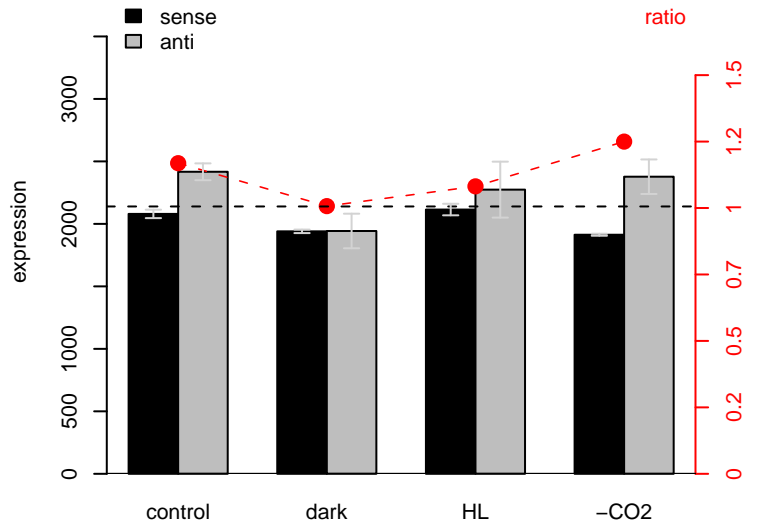
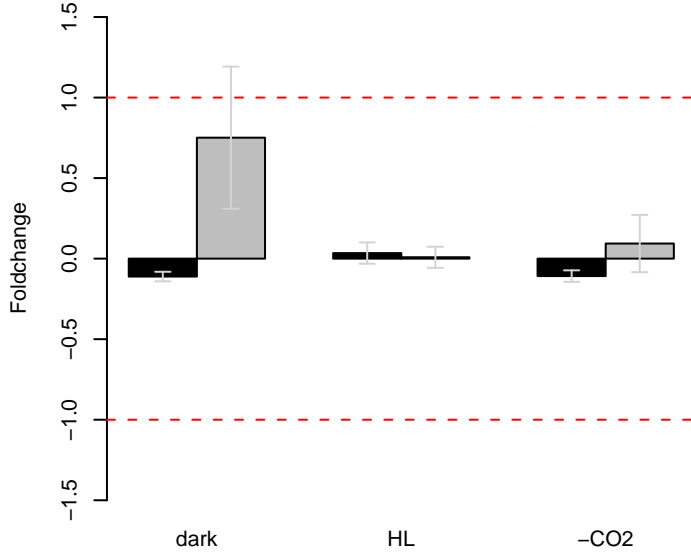
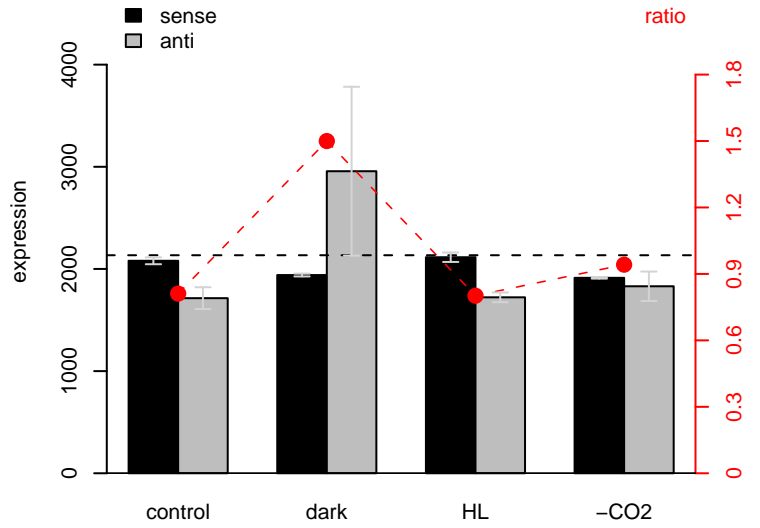
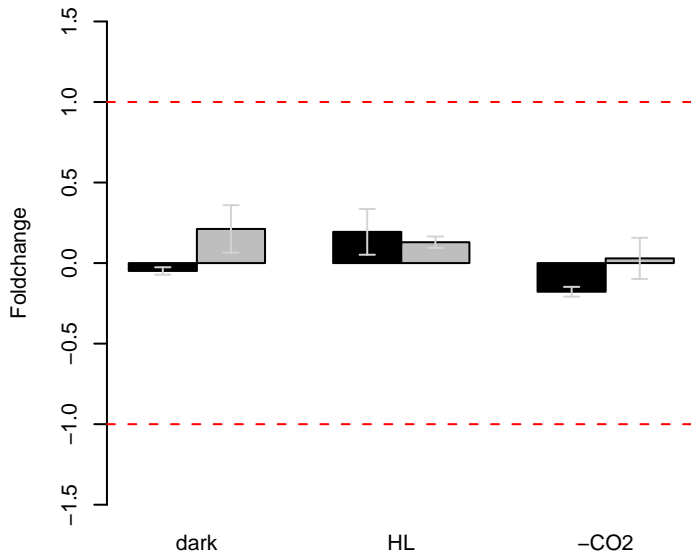
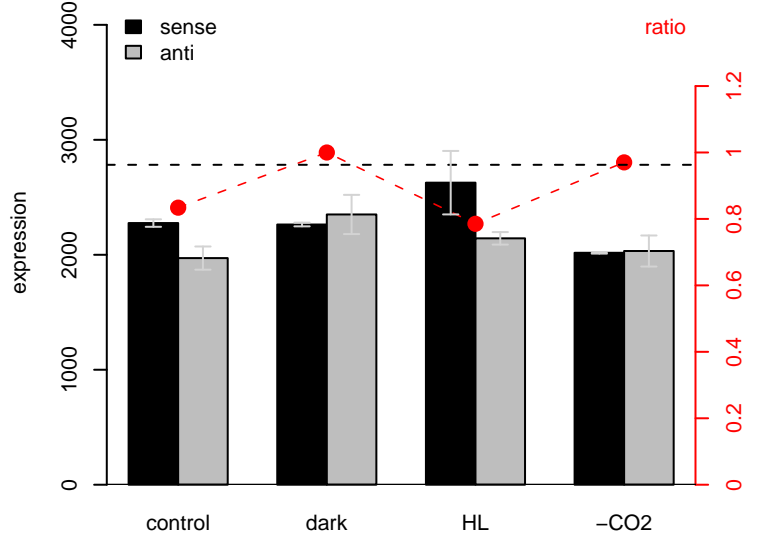
**gyrB(sII2005)**



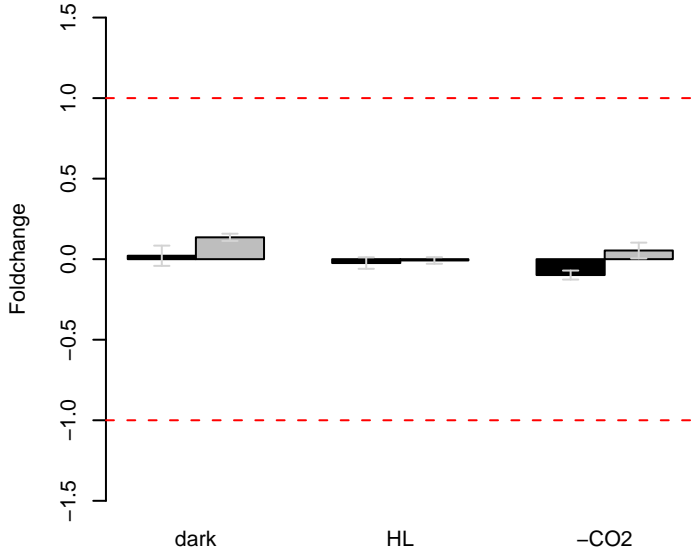
**genome\_1811**



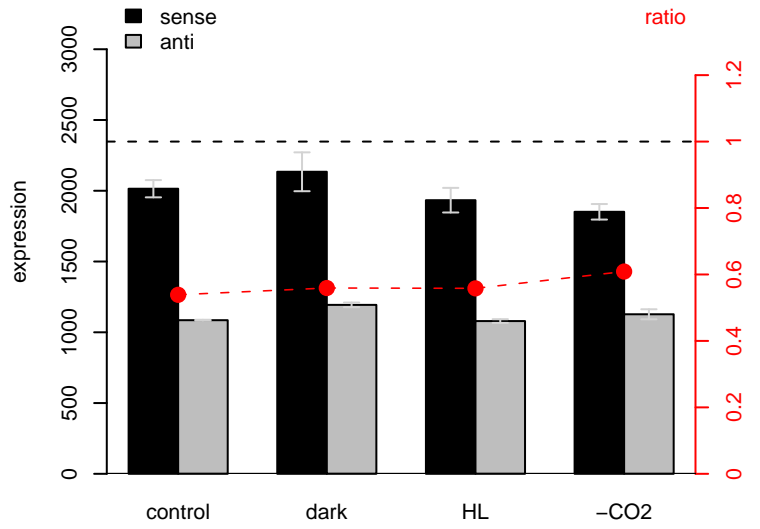
**slr2141****genome\_1817****infB(slr0744)****genome\_181****slr2003****genome\_1819**

**sli2003****genome\_1819****sli2003****genome\_1819****sli2002****genome\_1824**

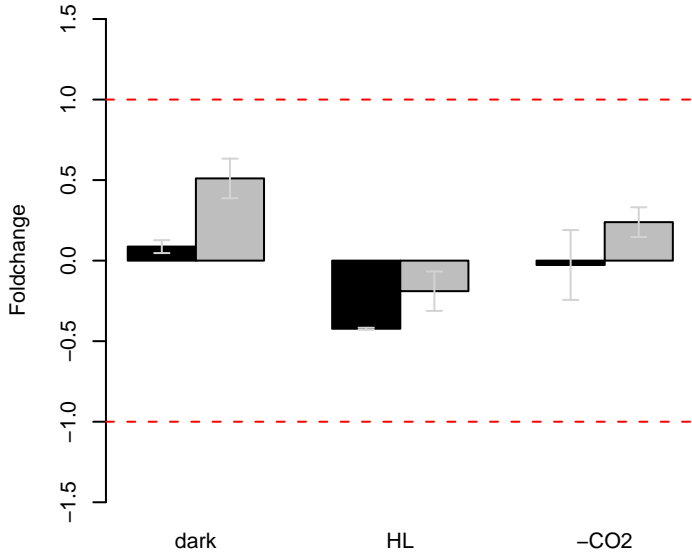
**mbpA(slr1803)**



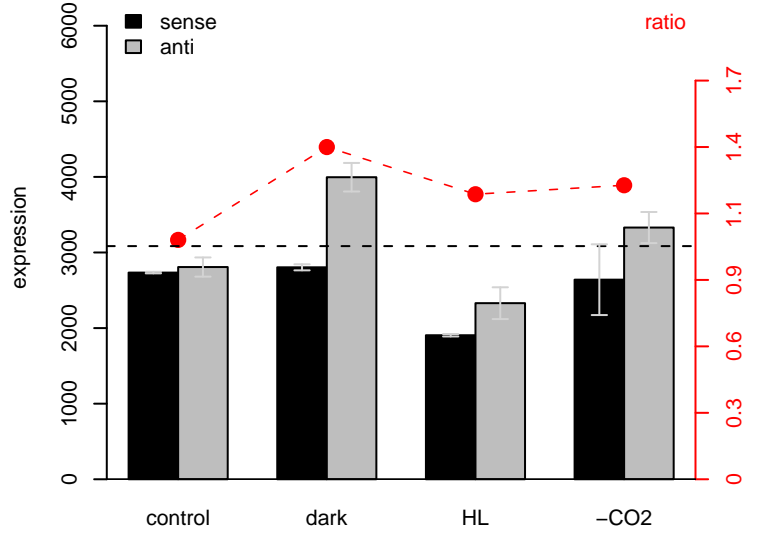
**genome\_1827**



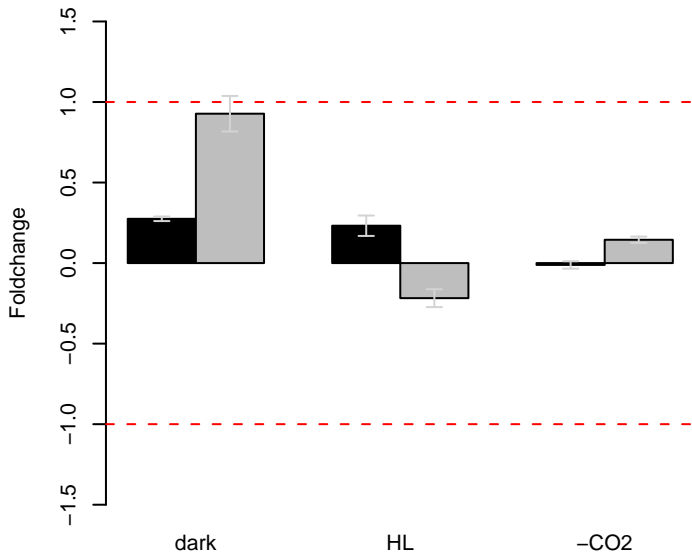
**sll1708**



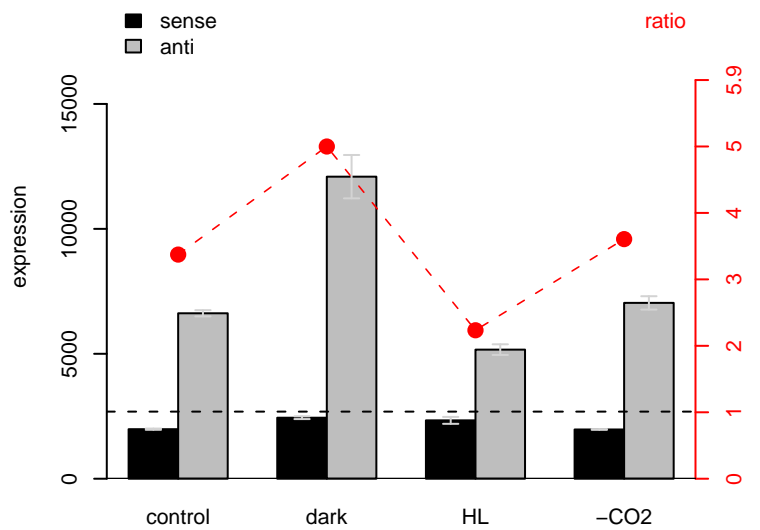
**genome\_1832**



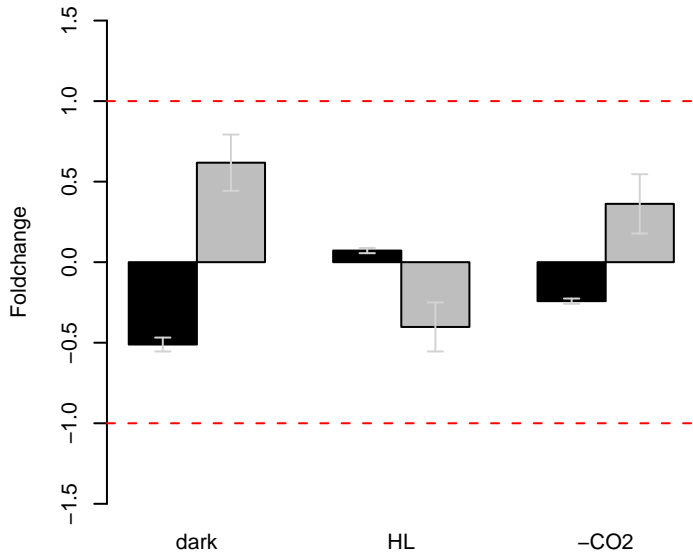
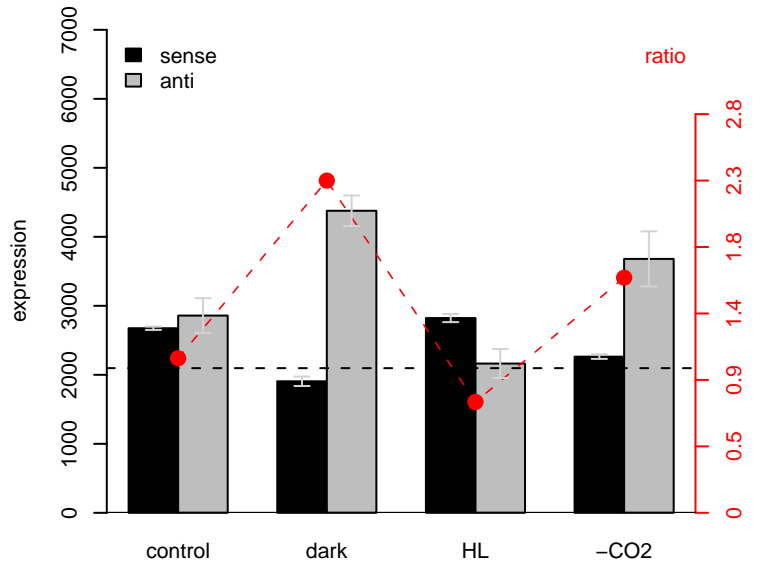
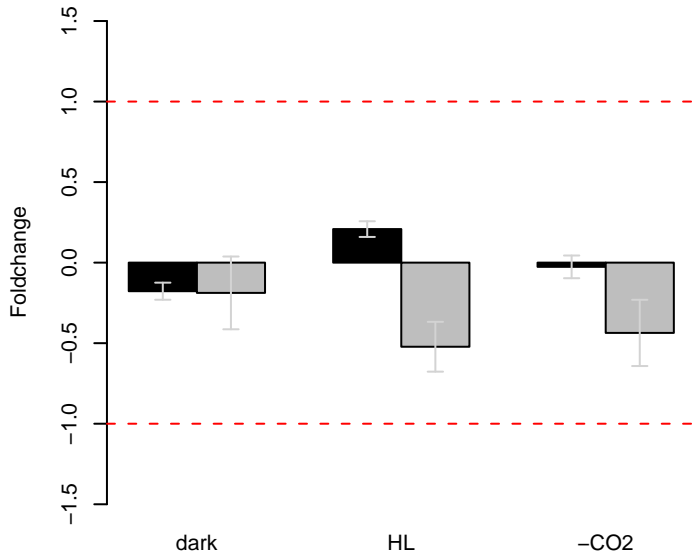
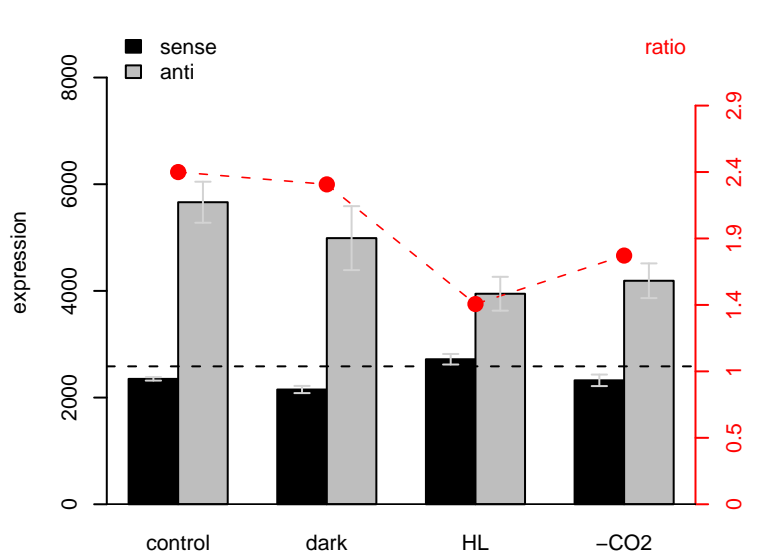
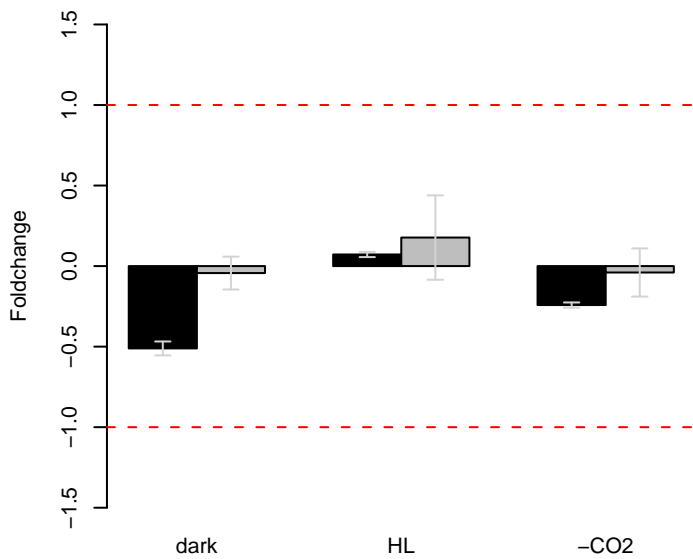
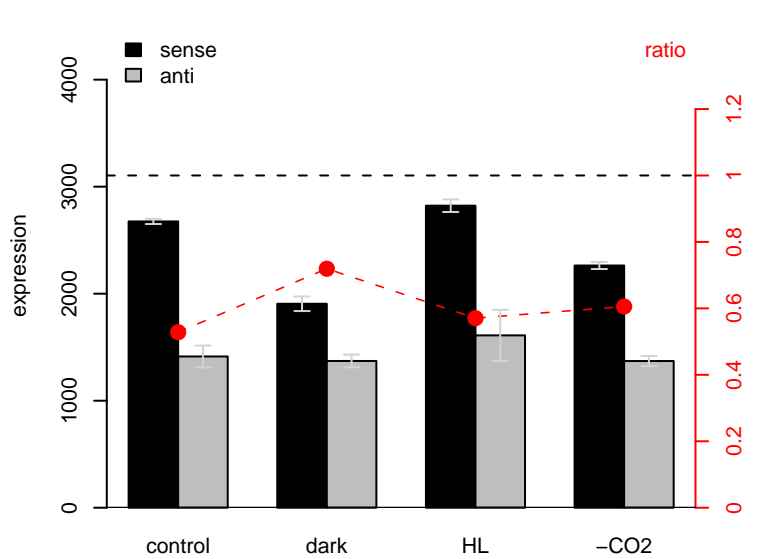
**sppA(sll1703)**

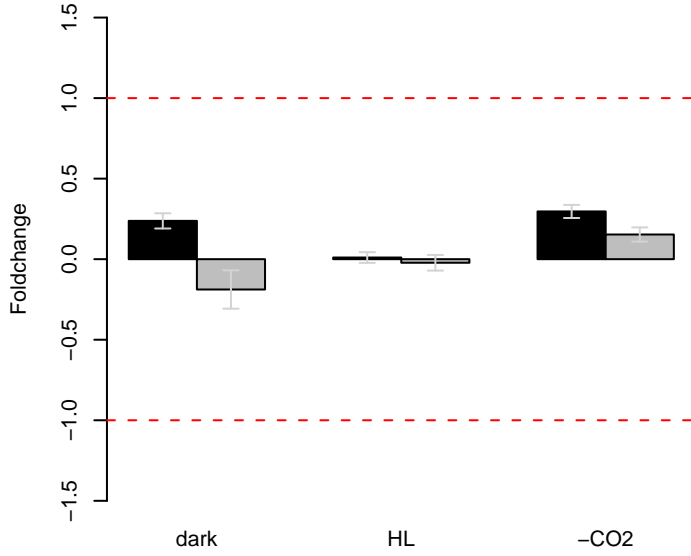
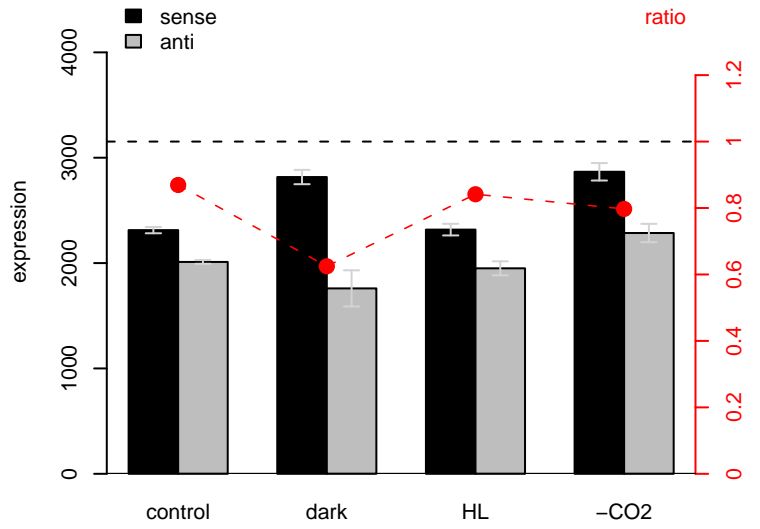
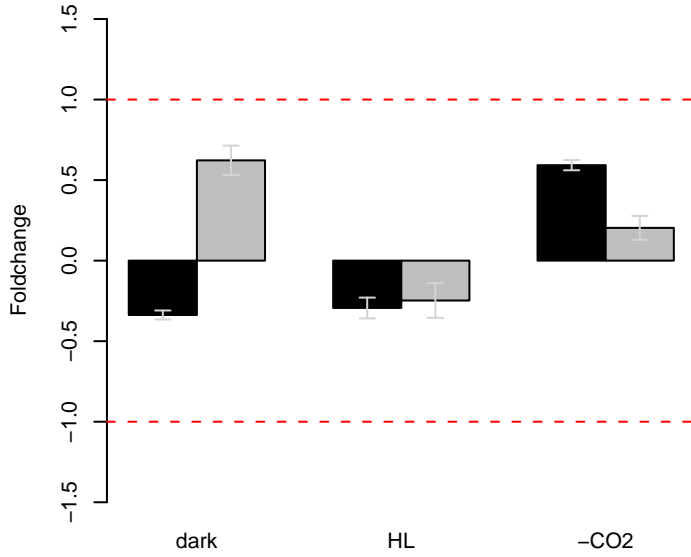
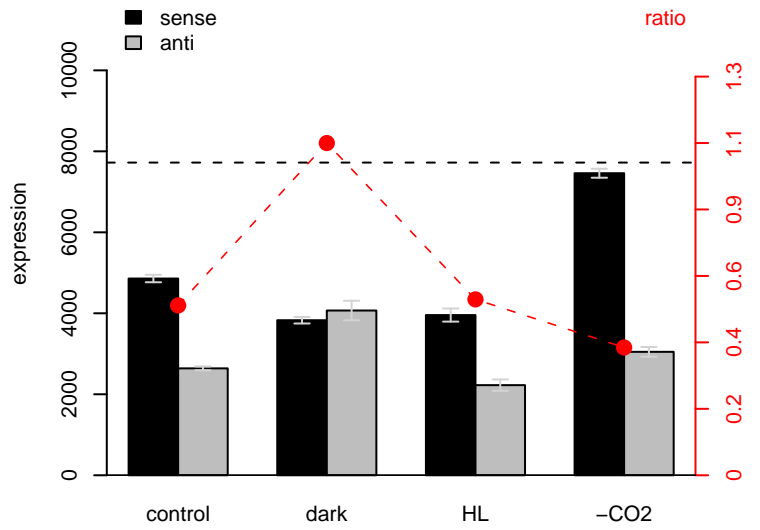
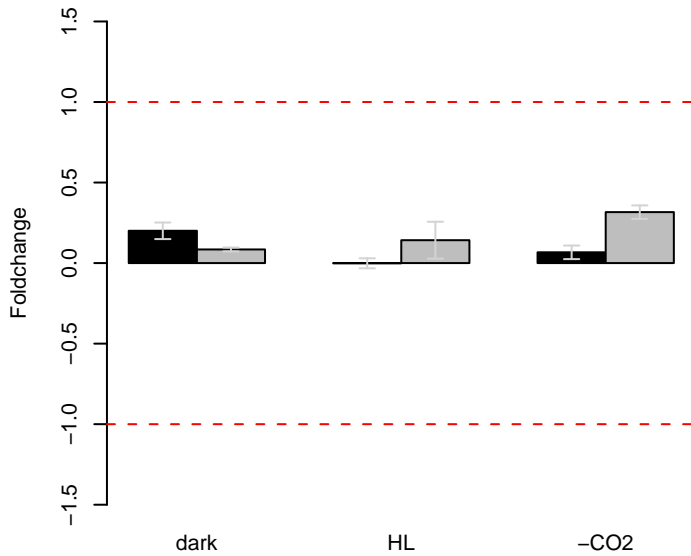
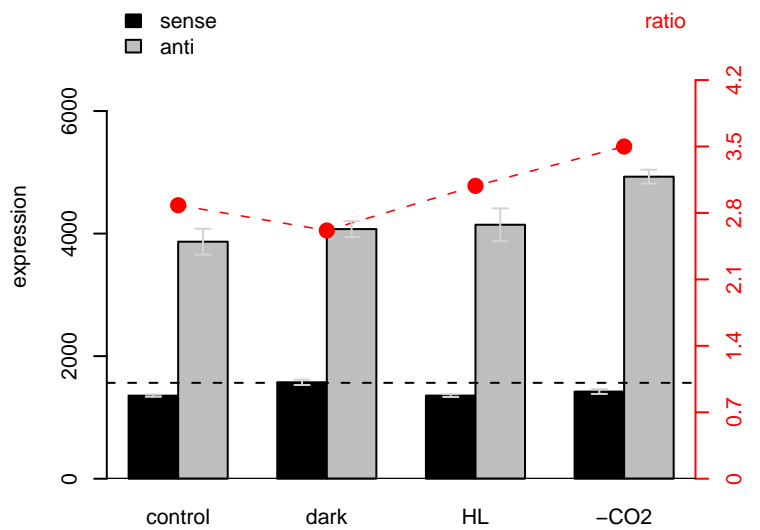


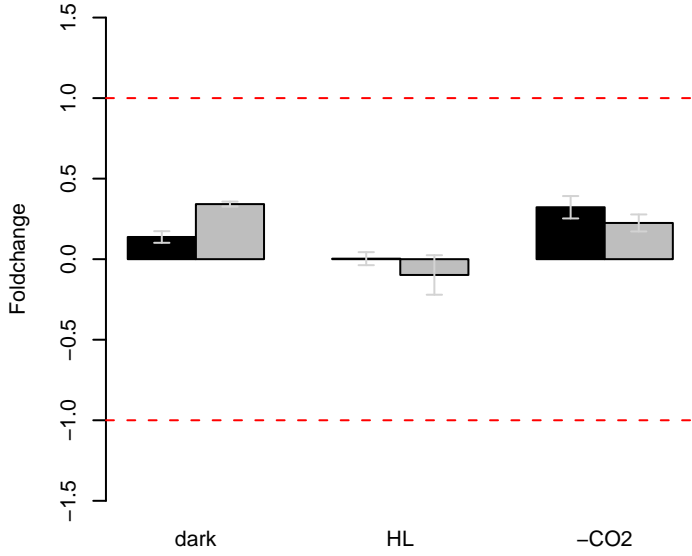
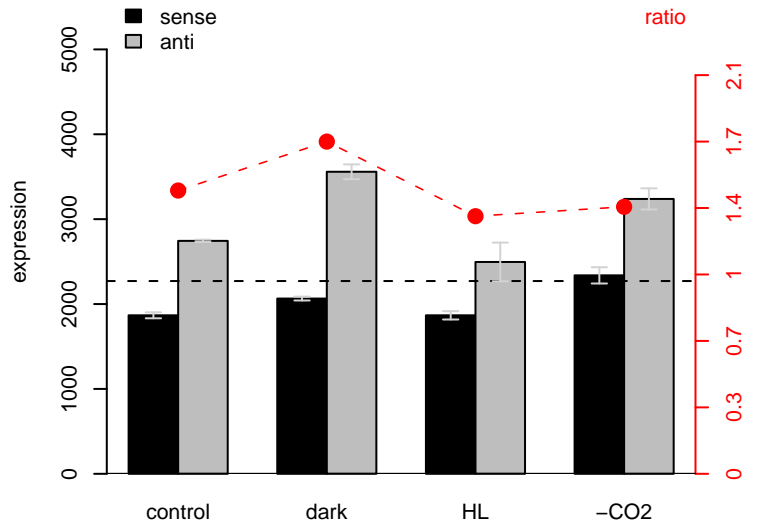
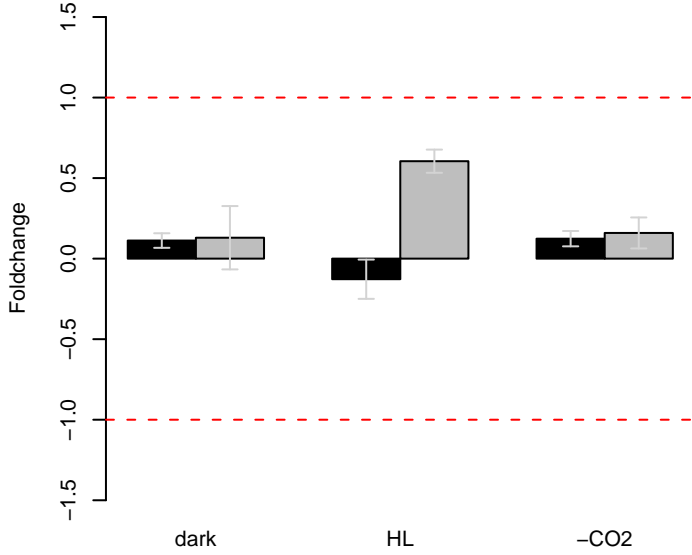
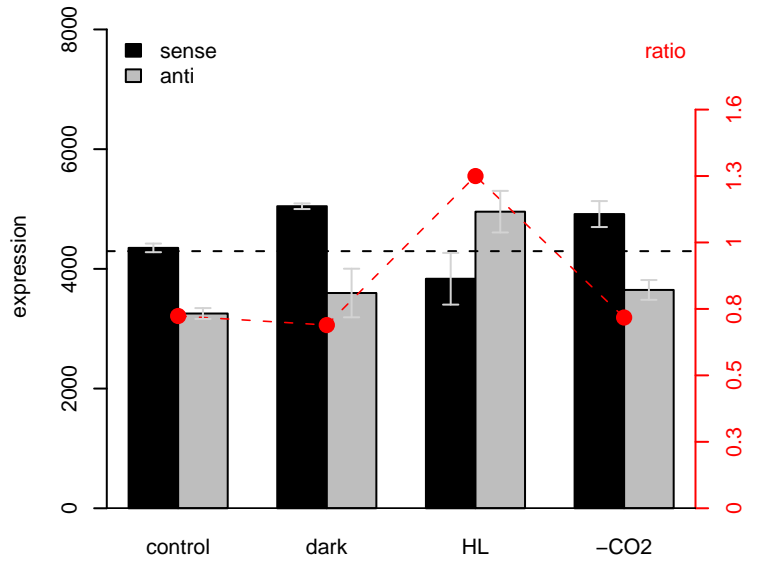
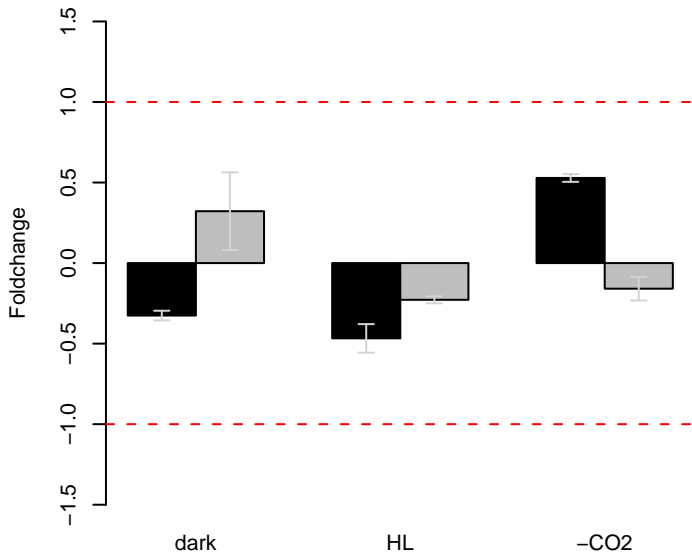
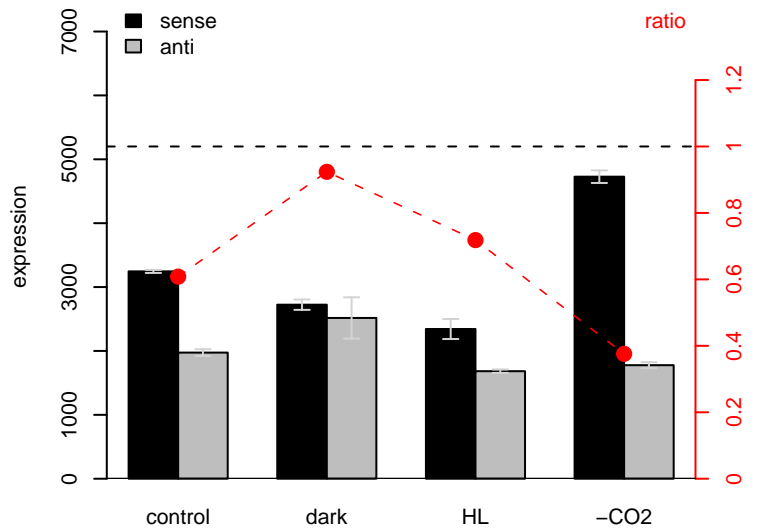
**genome\_1836**



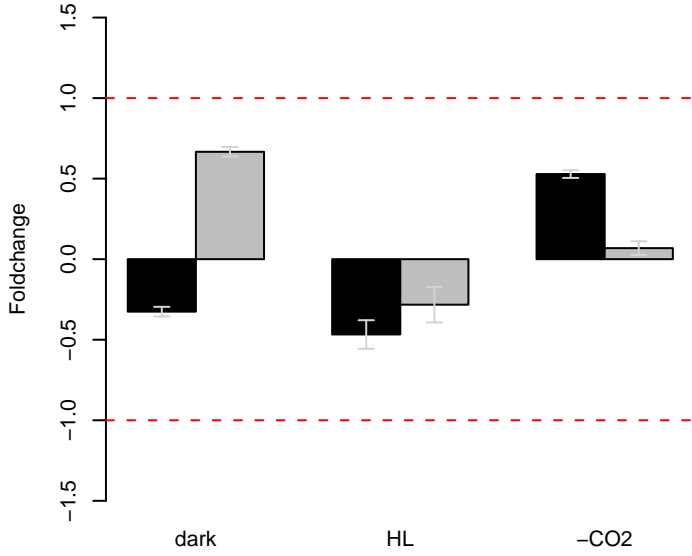


**sll1693****genome\_1858****slr0238****genome\_185****sll1693****genome\_1858**

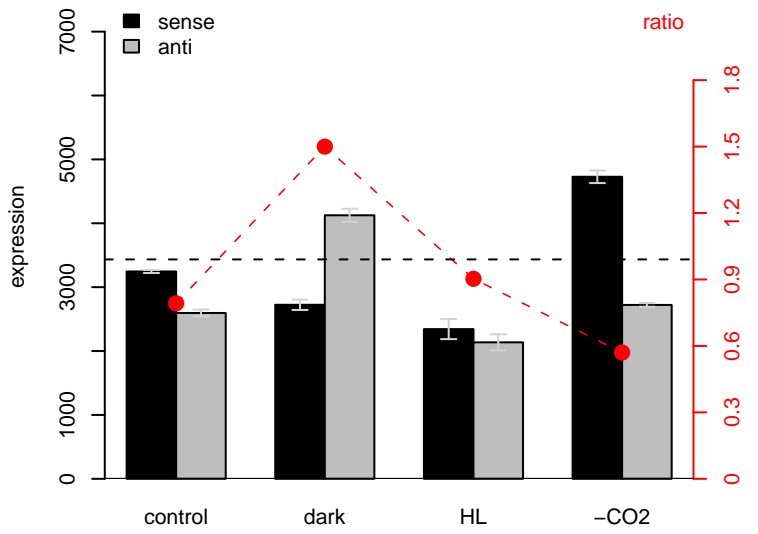
**slr1818****genome\_1861****sll1692****genome\_1863****ssl0426****genome\_188**

**slI1687****genome\_1871****nth(slI1822)****genome\_1874****opcA(slI1734)****genome\_1883**

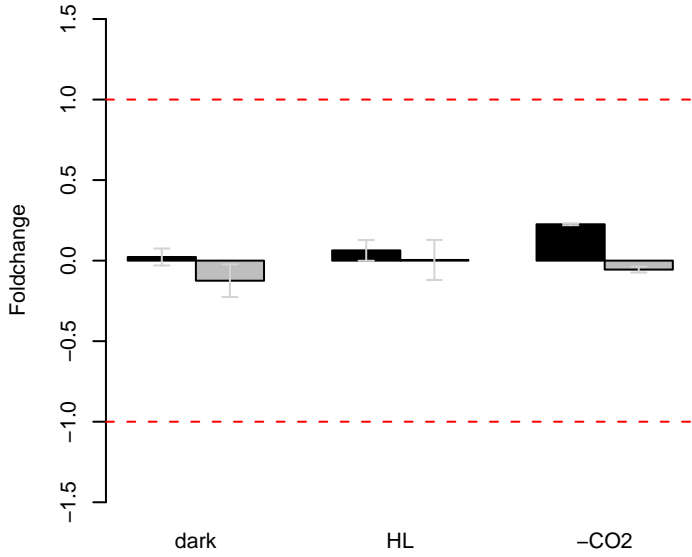
**opcA(sl1734)**



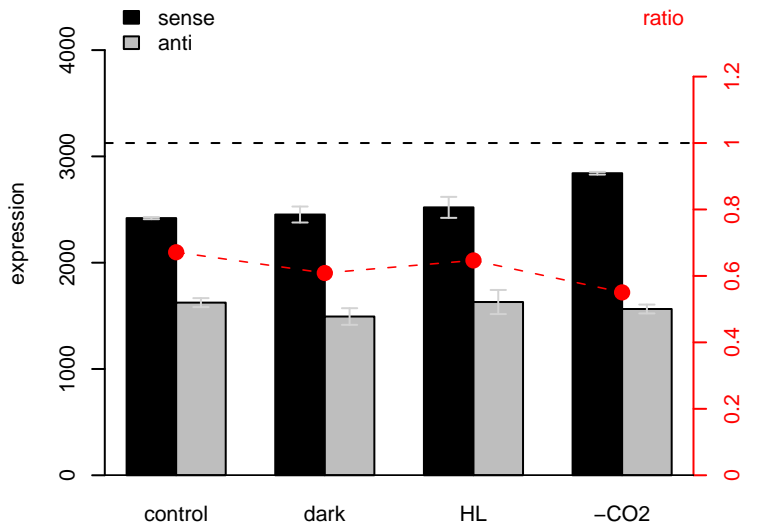
**genome\_1883**



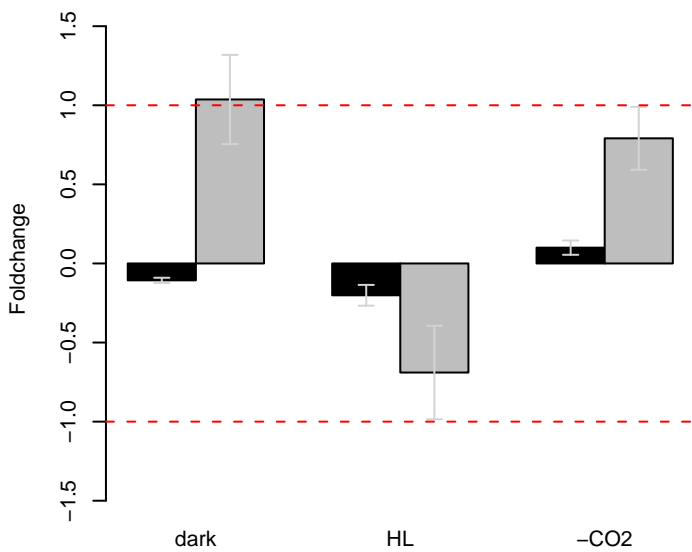
**sll1624**



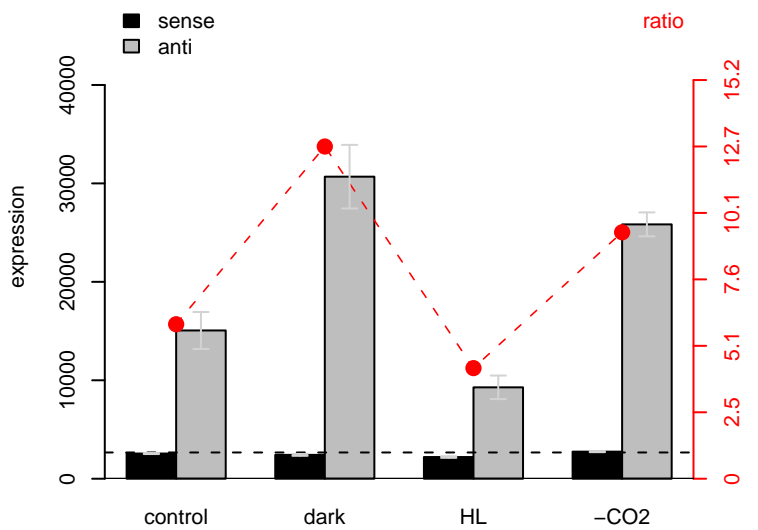
**genome\_1891**

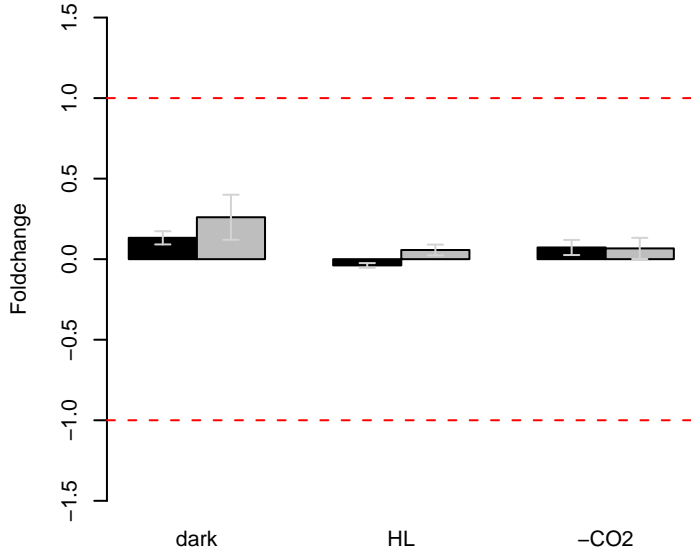
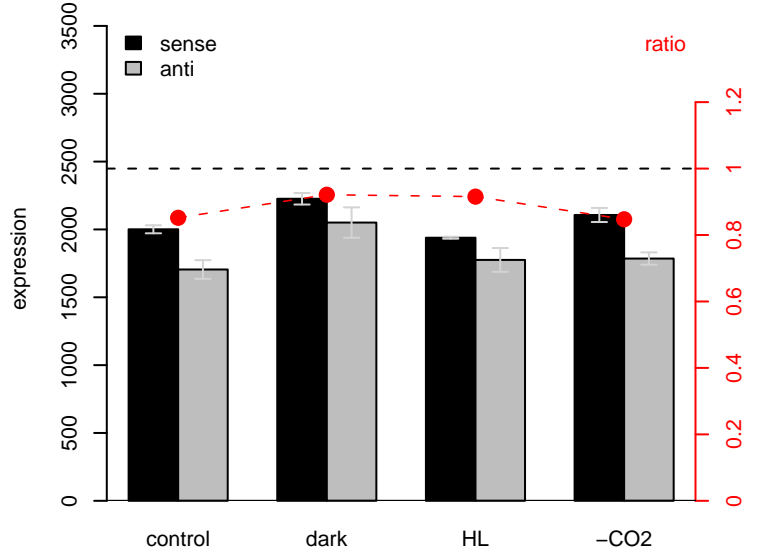
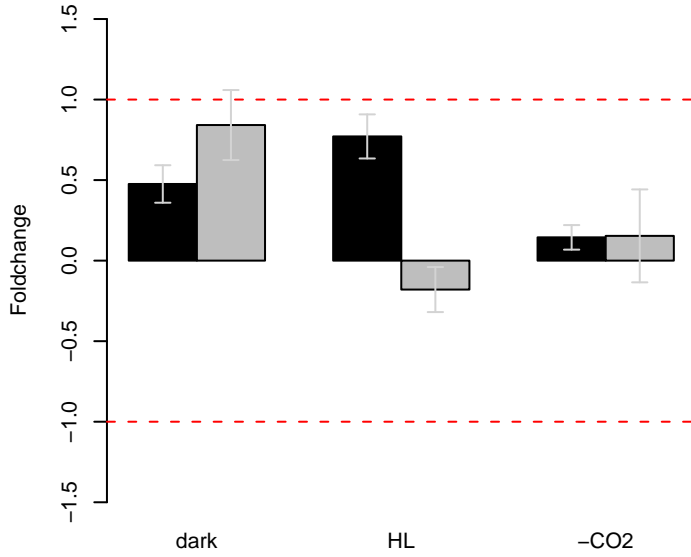
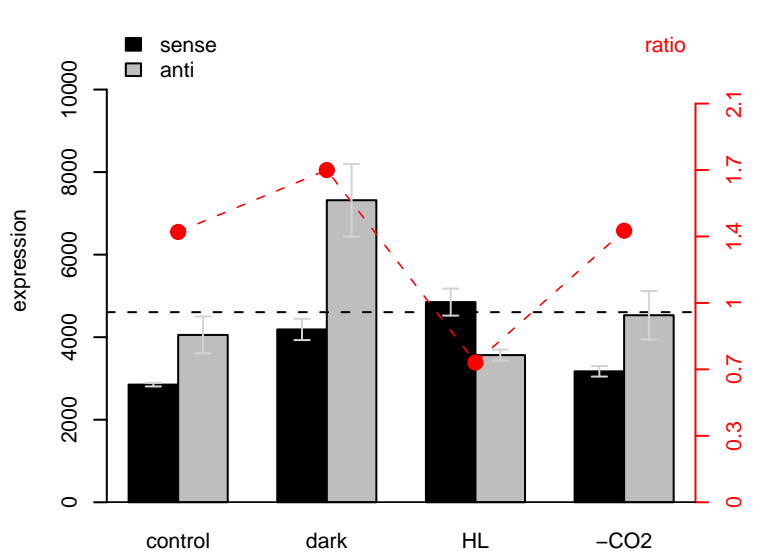
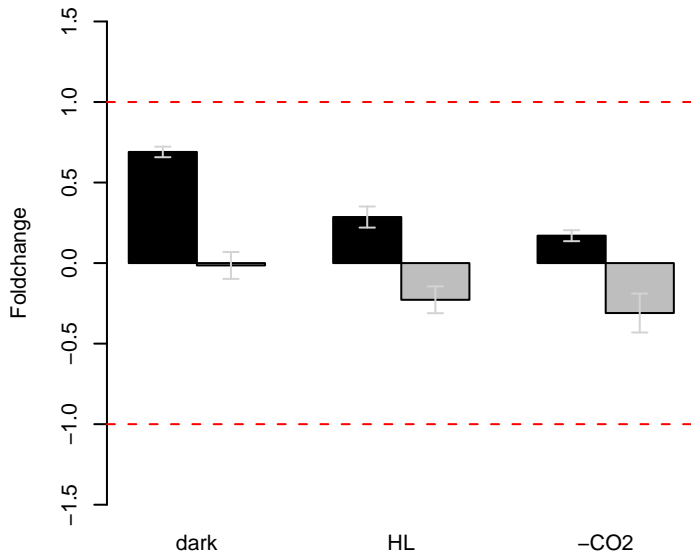
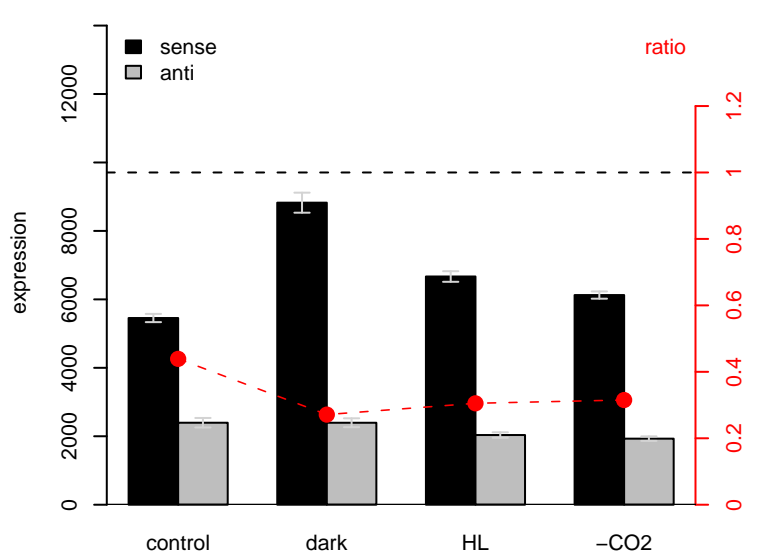


**ubiA(sl1736)**

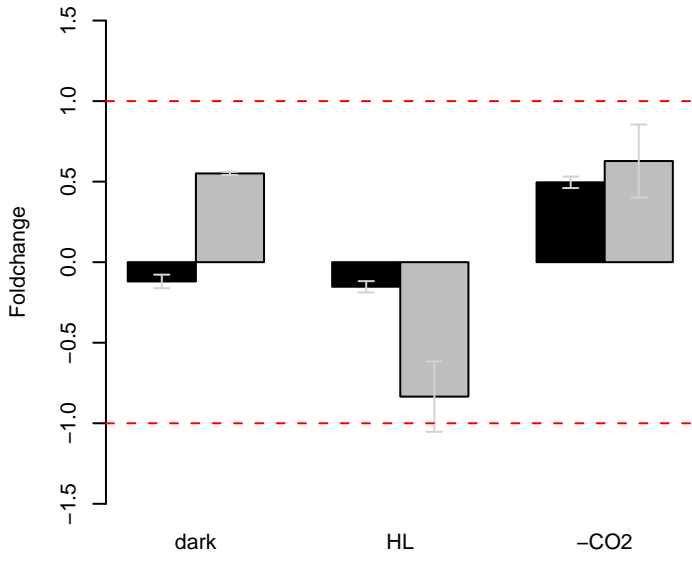


**genome\_1894**

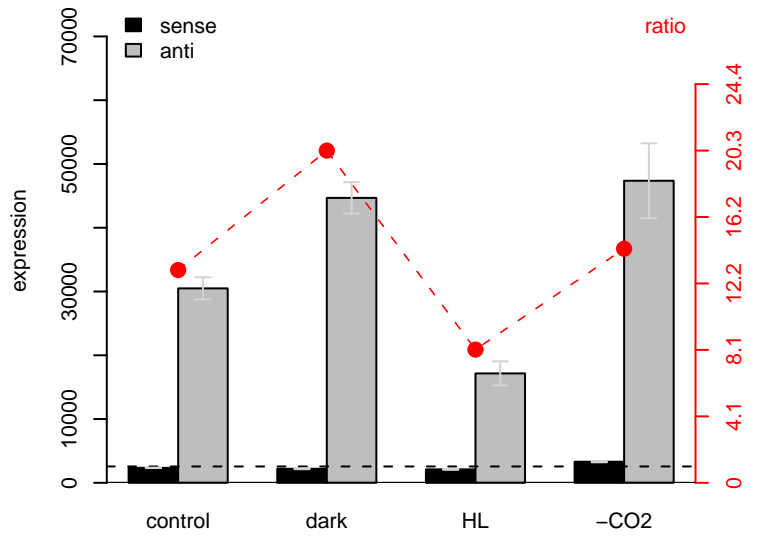


**slr1737****genome\_1896****slr1738****genome\_1902****slr0240****genome\_190**

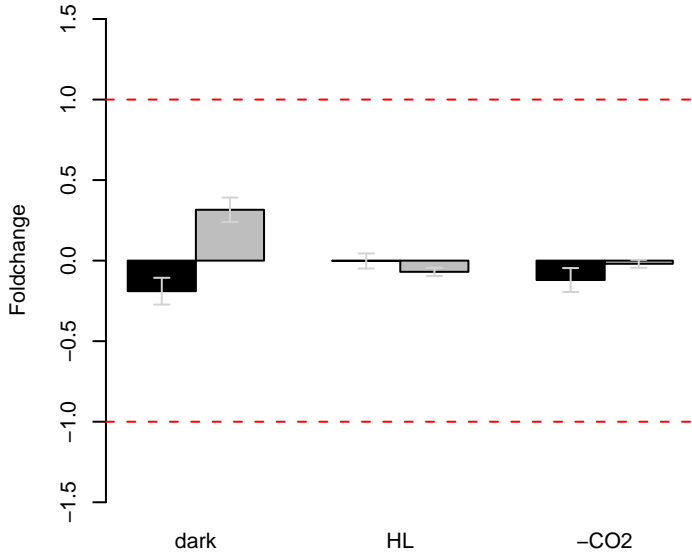
**sl1618**



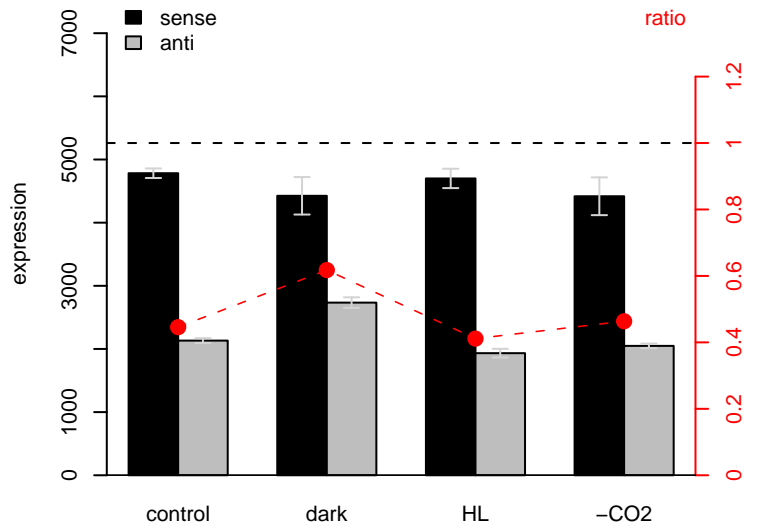
**genome\_1910**



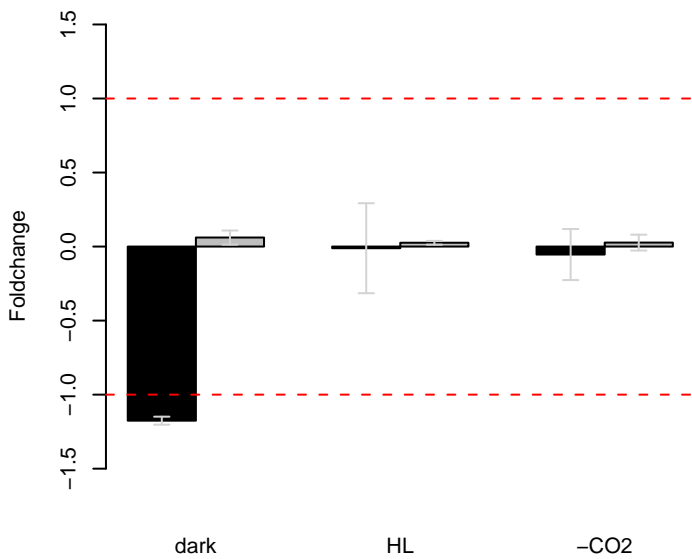
**amiA(sl1744)**



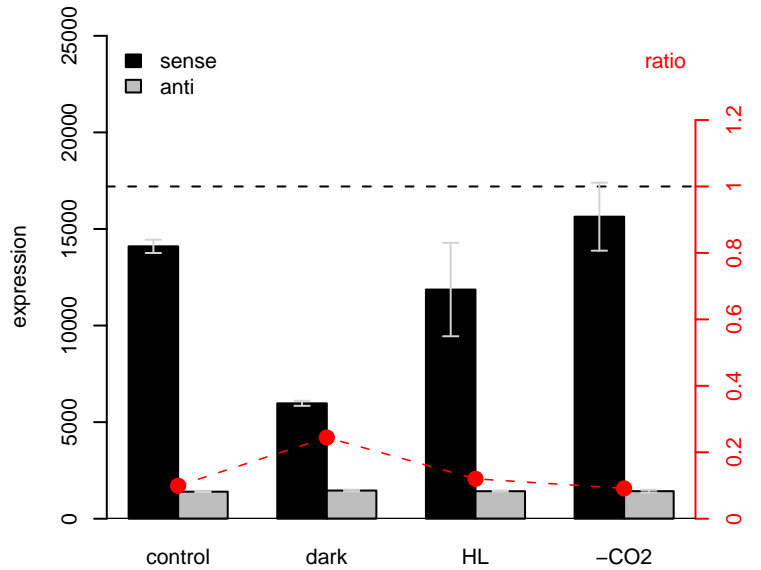
**genome\_1914**



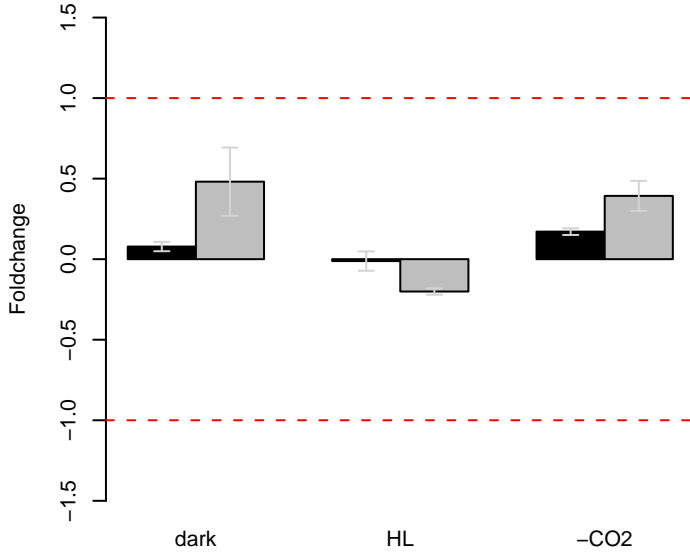
**murl(sl1746)**



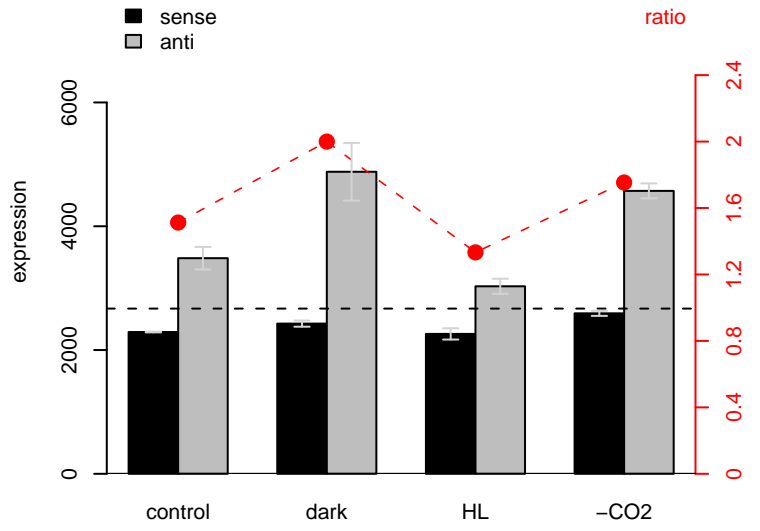
**genome\_1916**



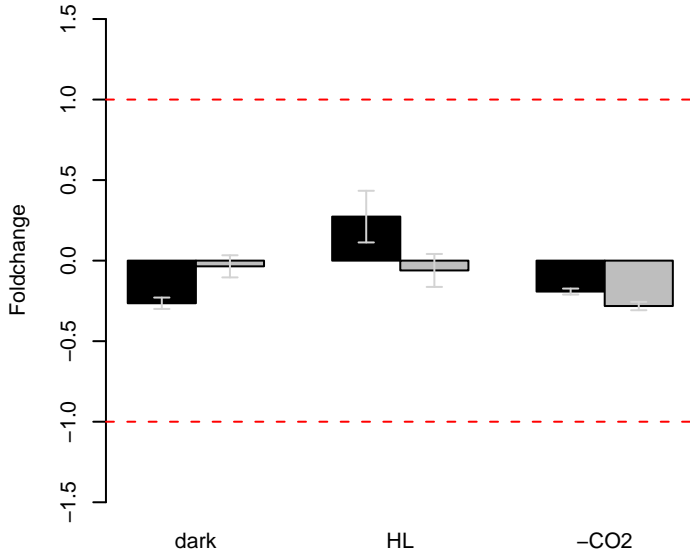
**phr(slr0854)**



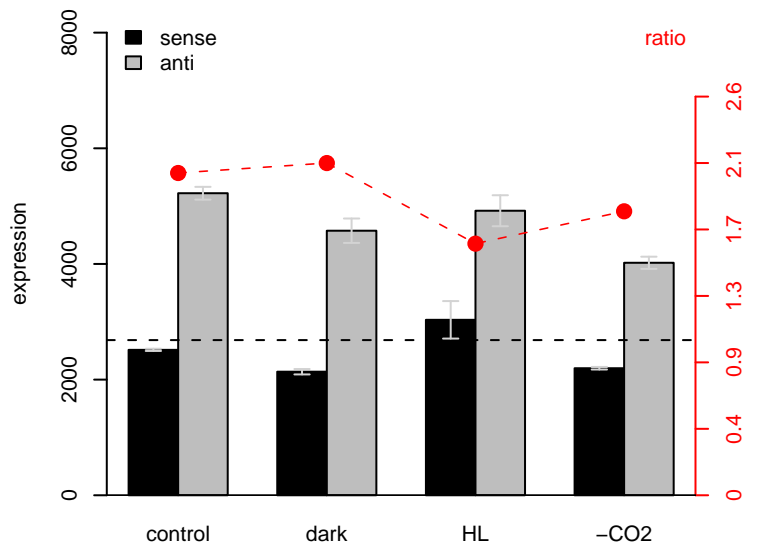
**genome\_1924**



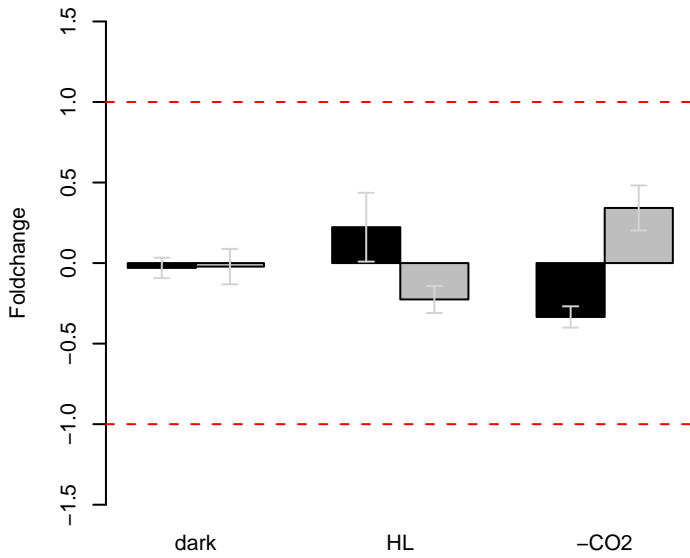
**sli0854**



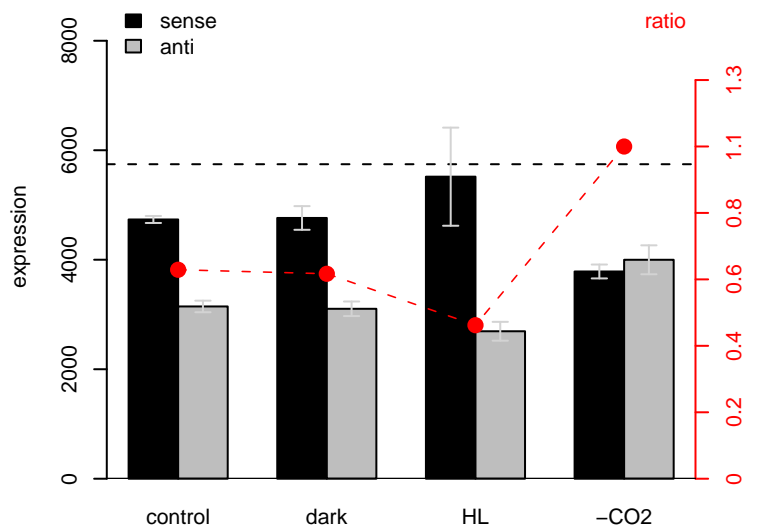
**genome\_1930**



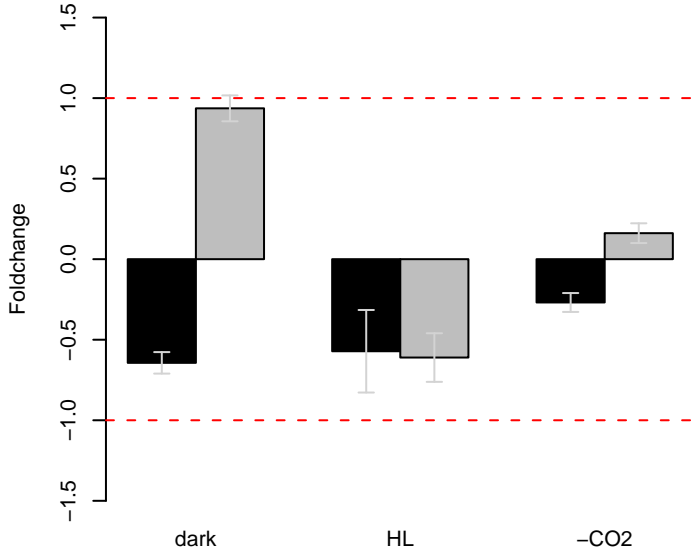
**sli0853**



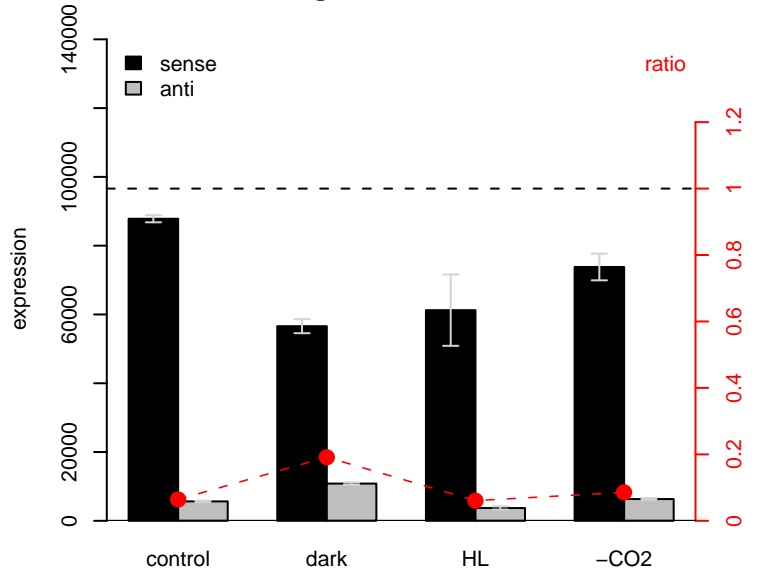
**genome\_1932**



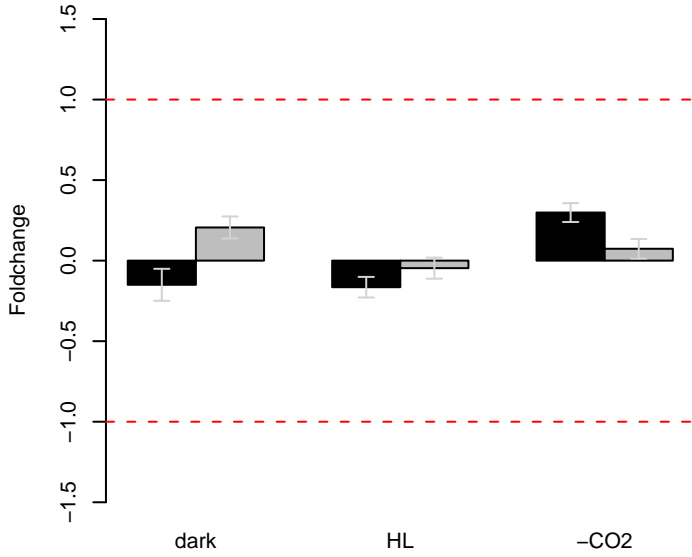
**psbC(sll0851)**



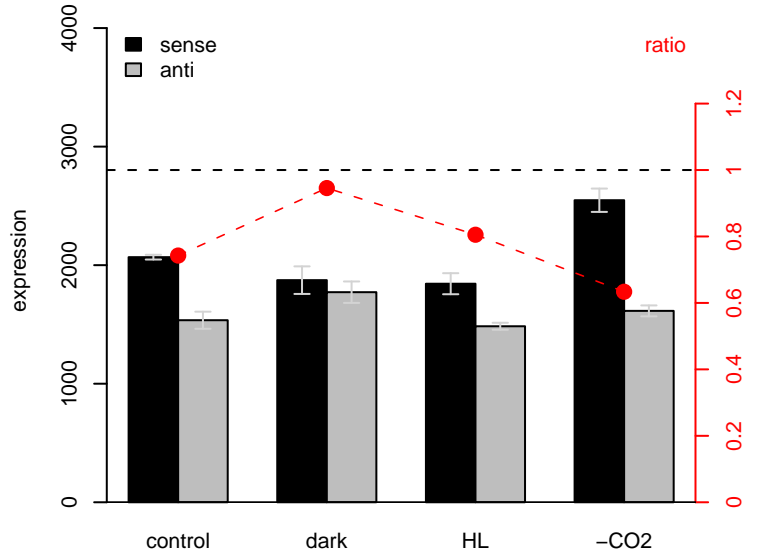
**genome\_1937**



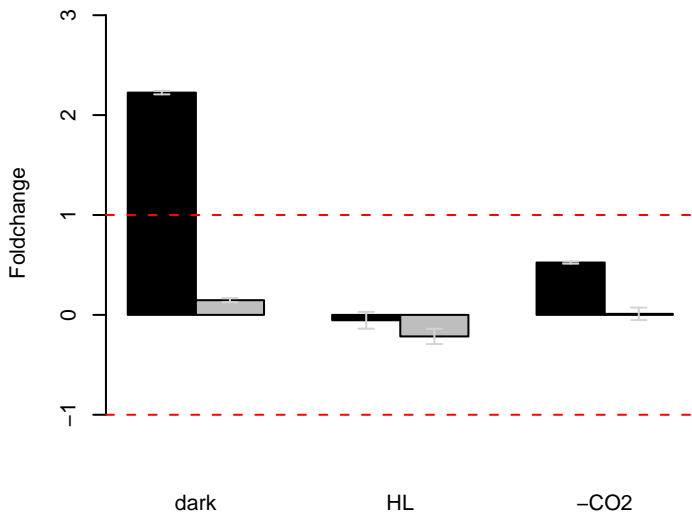
**sll0863**



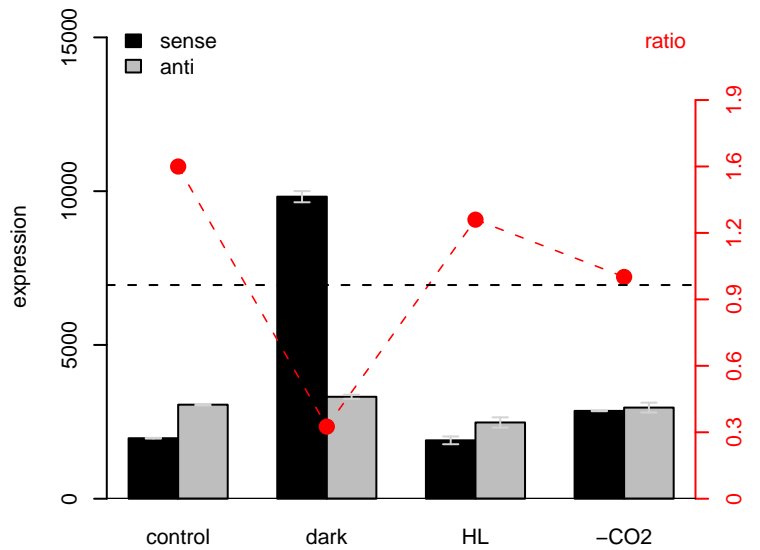
**genome\_1947**



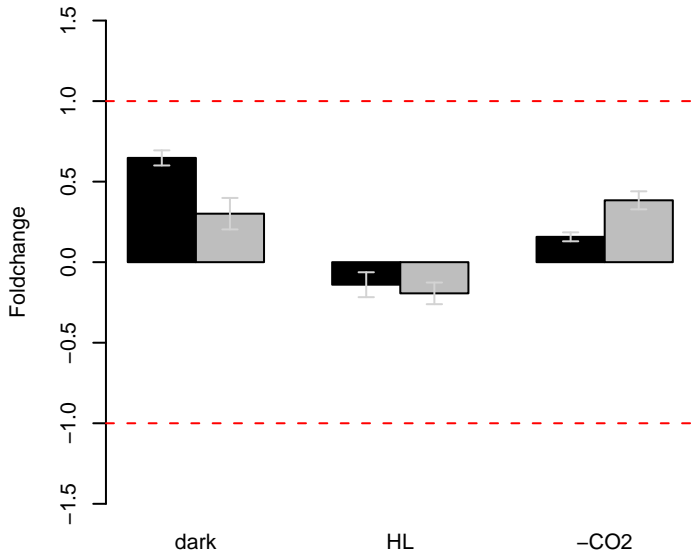
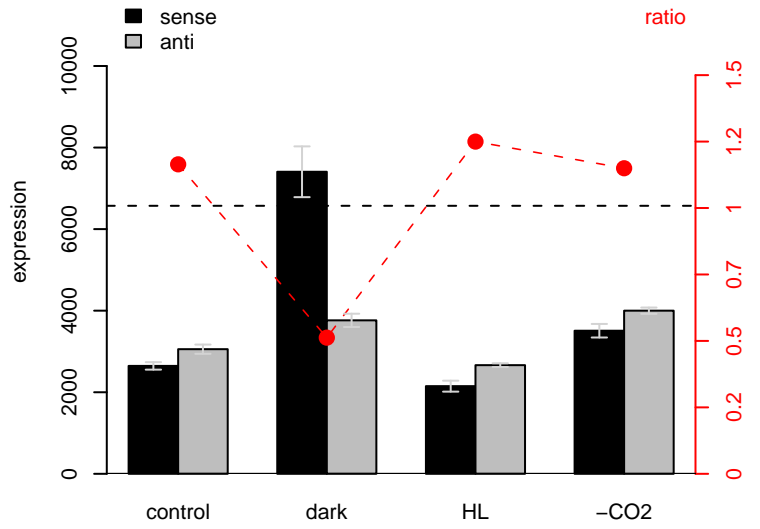
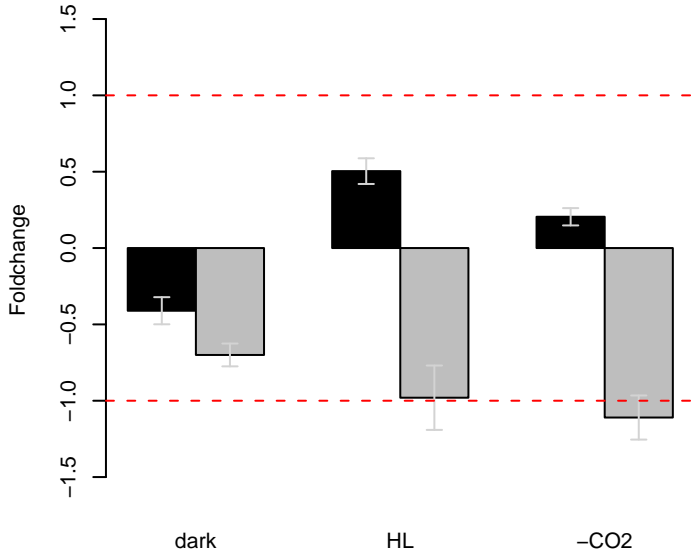
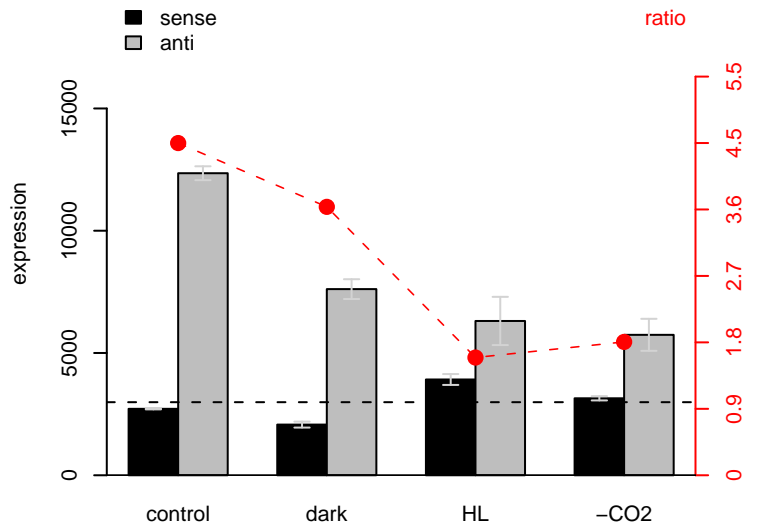
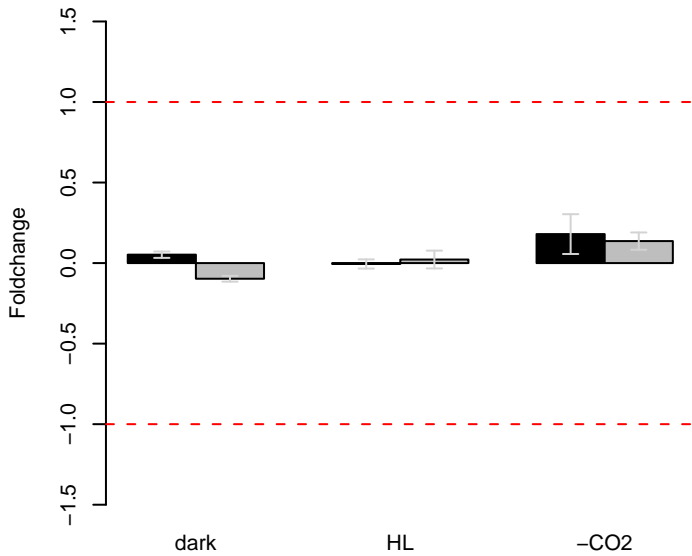
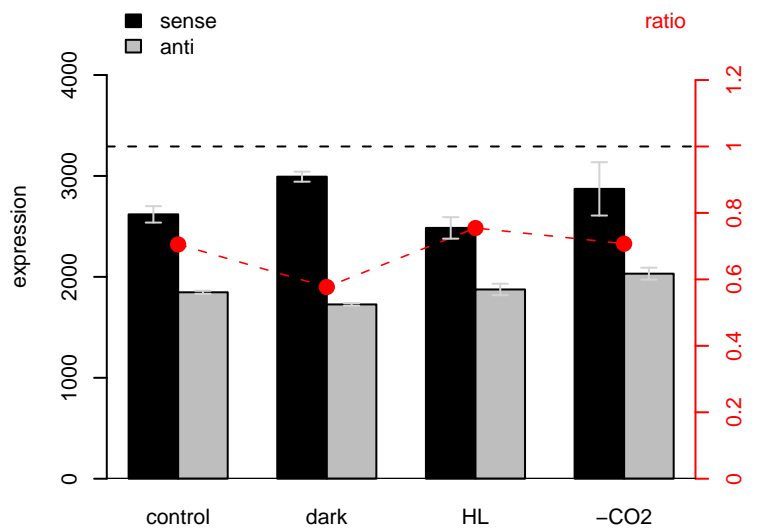
**sll0843**

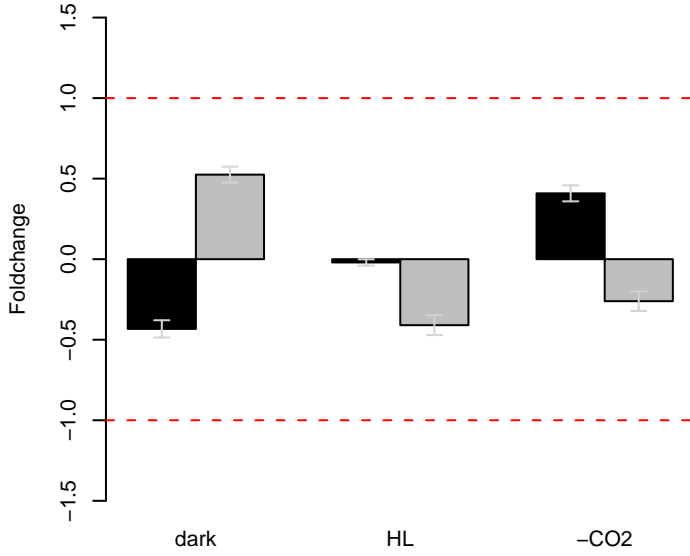
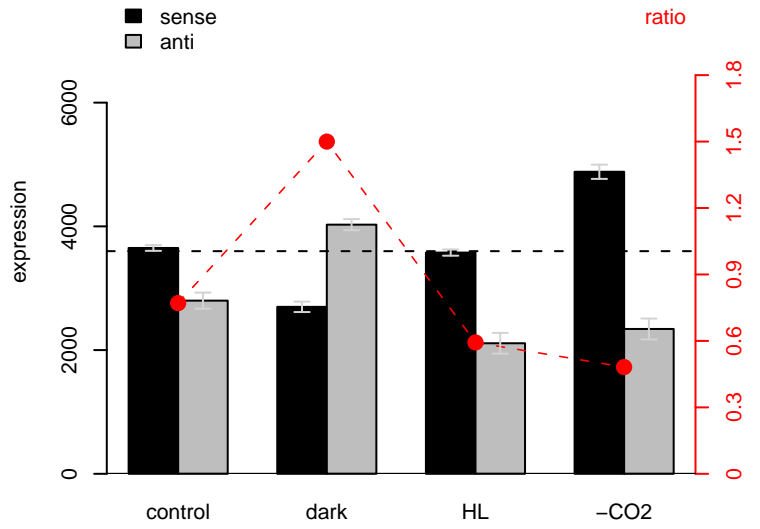
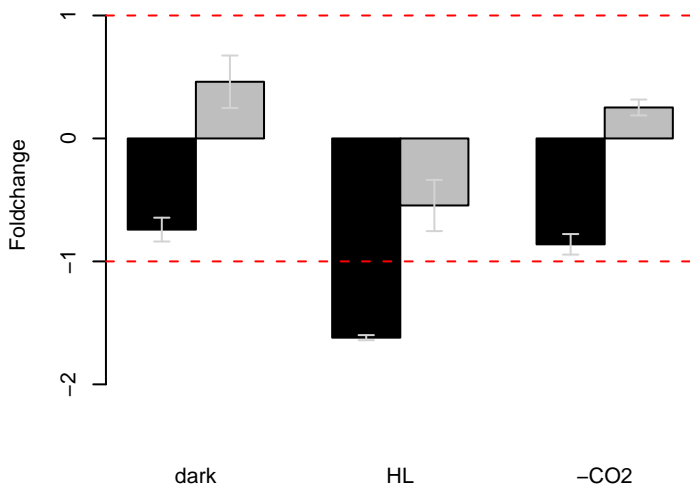
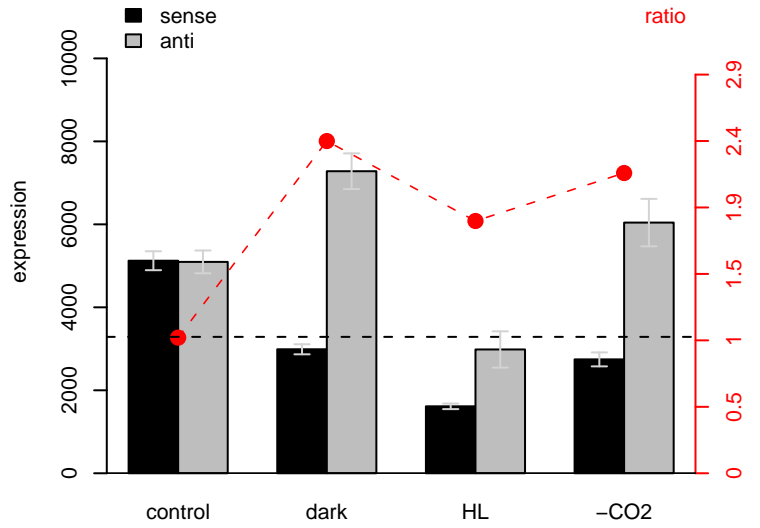
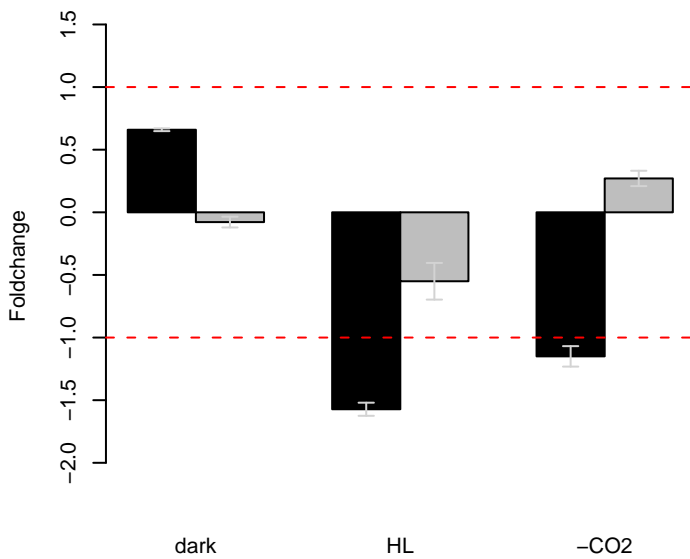
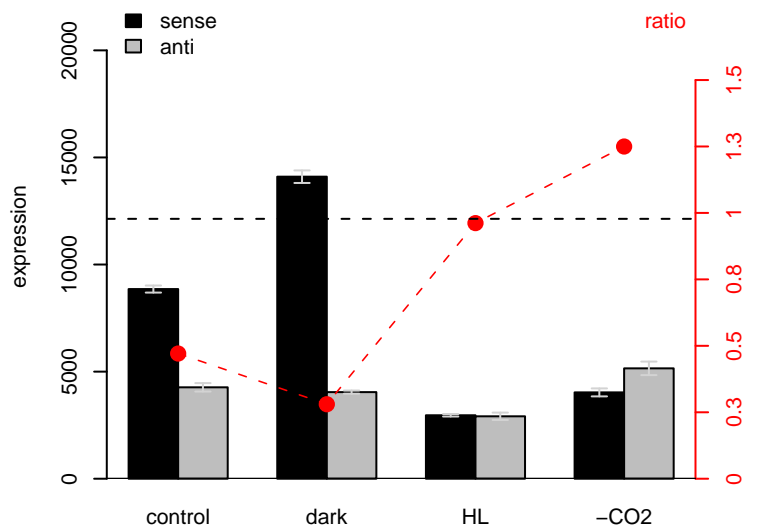


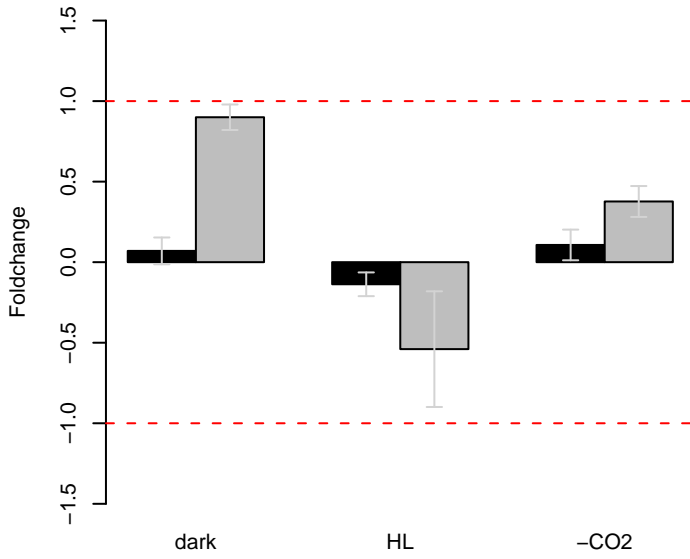
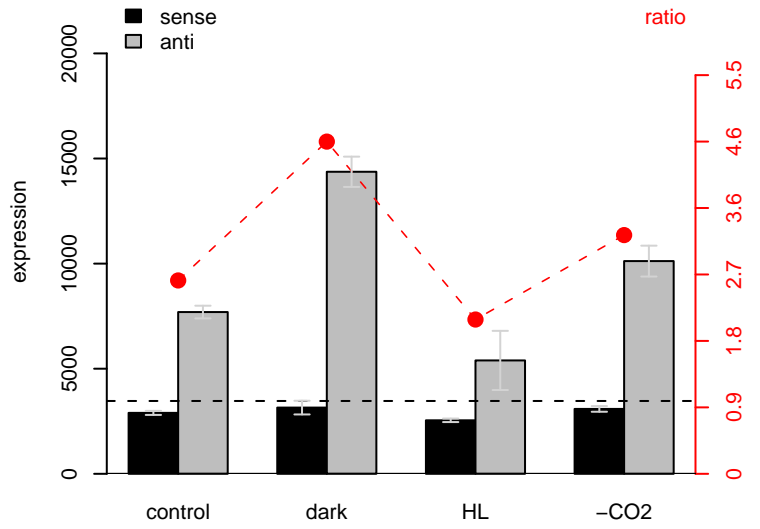
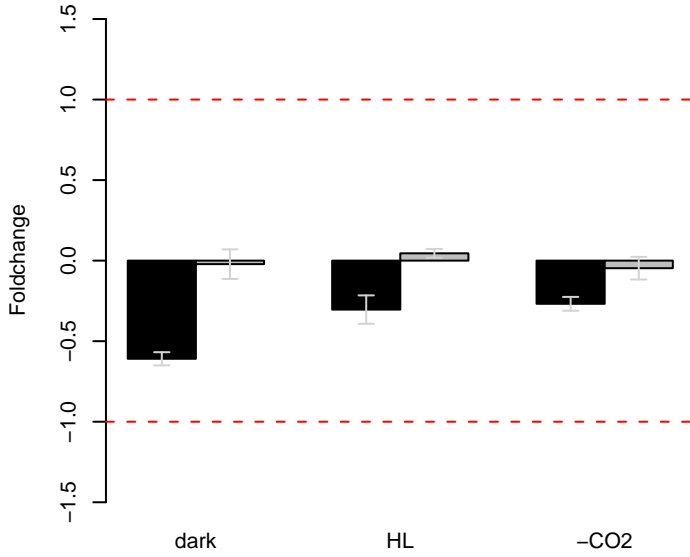
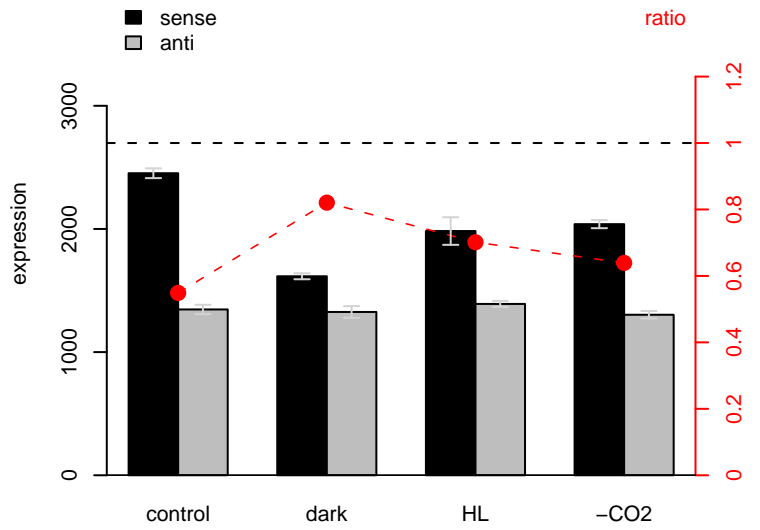
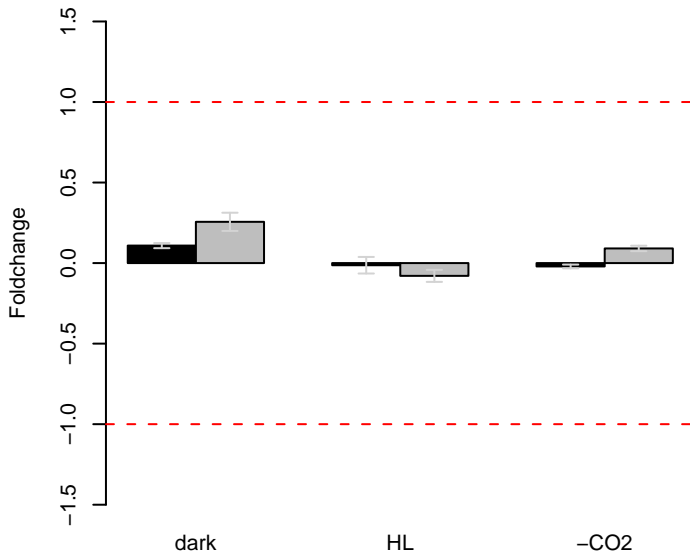
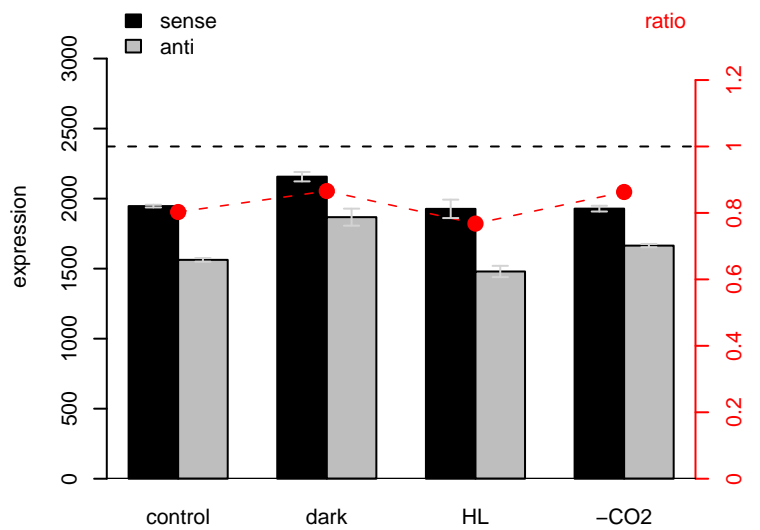
**genome\_1950**



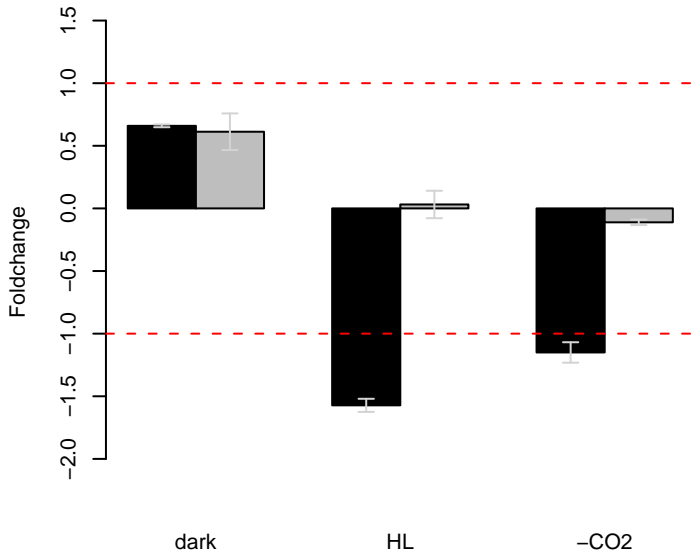


**npIT(sll0842)****genome\_1952****slr0864****genome\_1954****slr0865****genome\_1956**

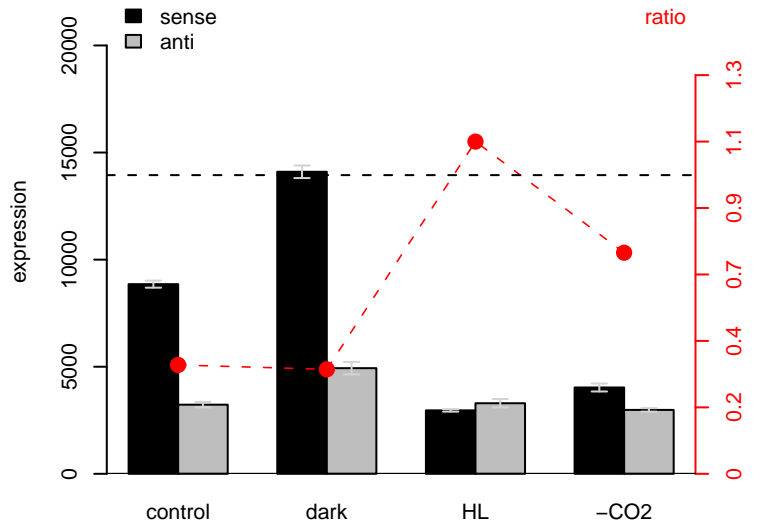
**sli0837****genome\_1961****slr0869****genome\_1966****slr0244****genome\_196**

**slr0872****genome\_1970****slr1243****genome\_1973****slr1161****genome\_1978**

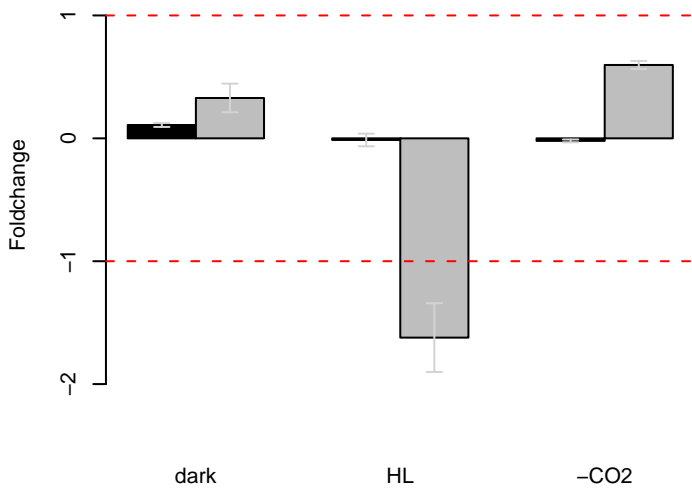
**slr0244**



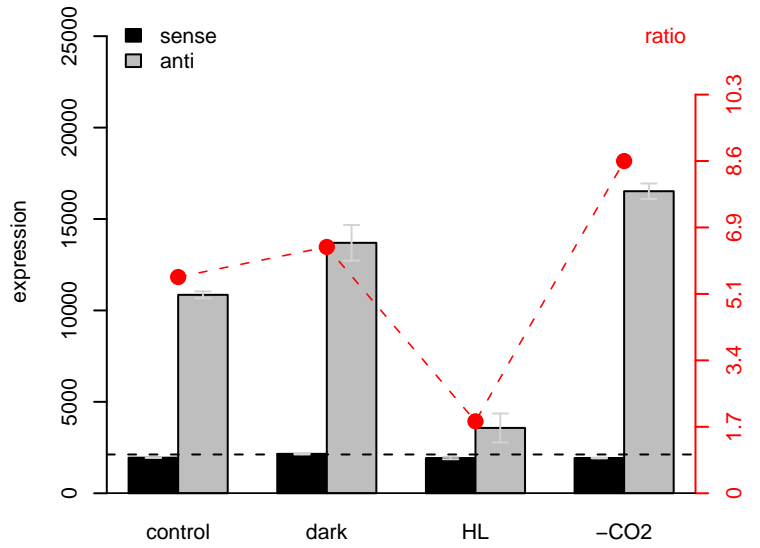
**genome\_196**



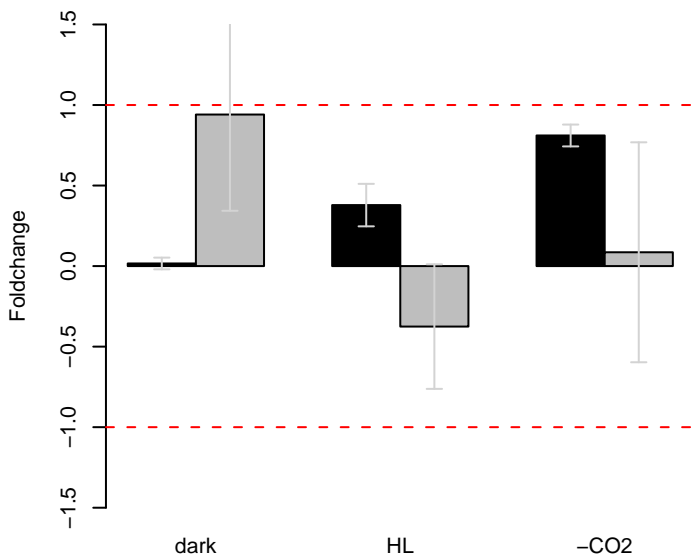
**sll1161**



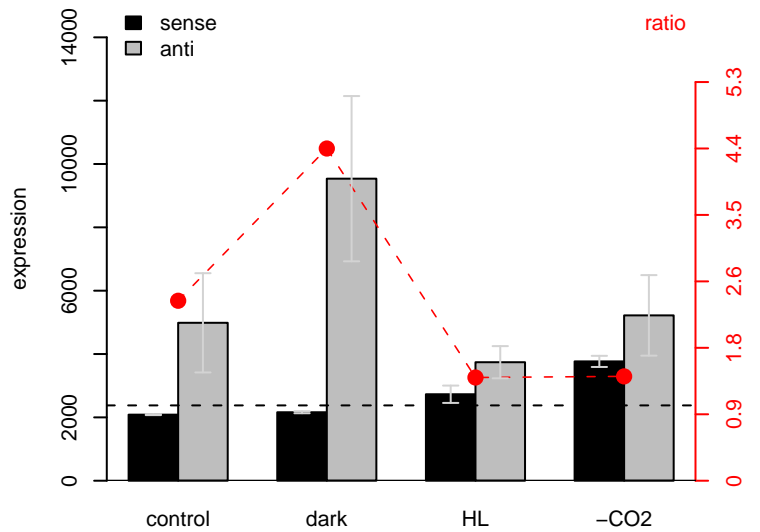
**genome\_1978**



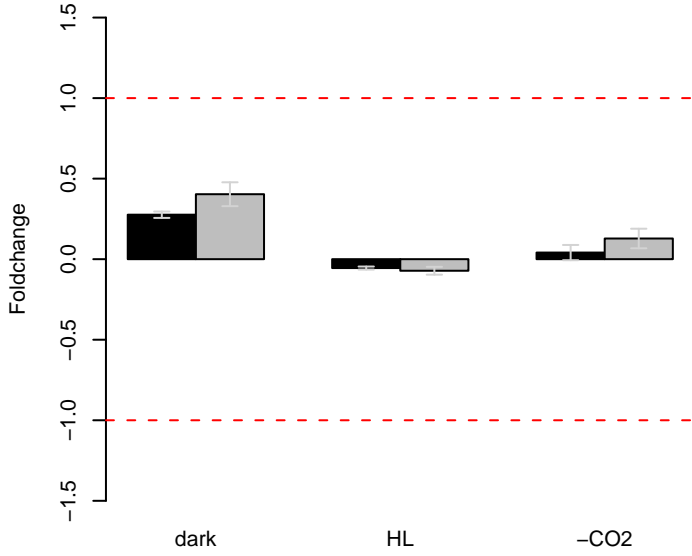
**norA(sll1154)**



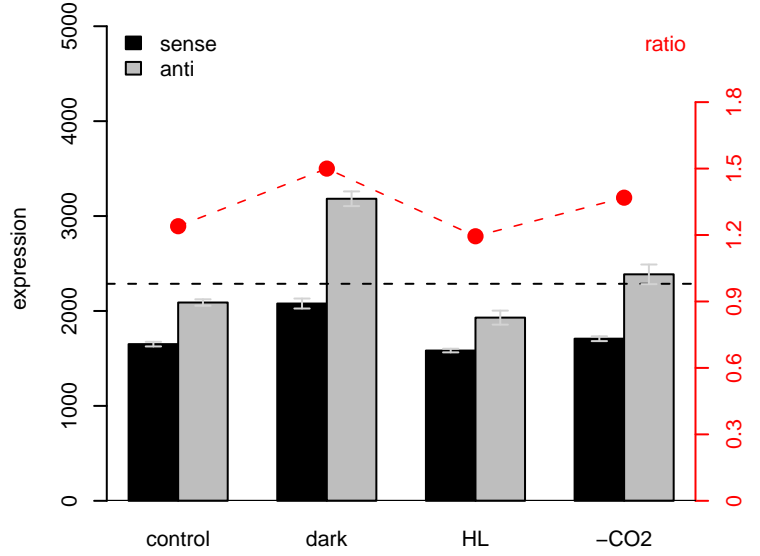
**genome\_1991**



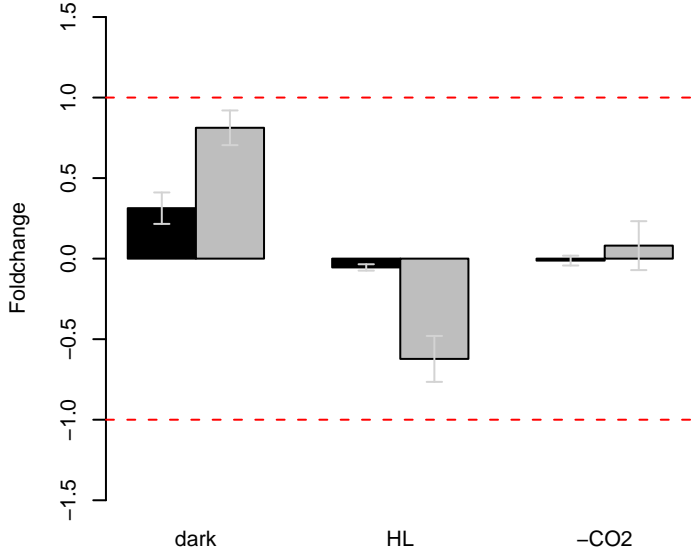
**pstC(slr1248)**



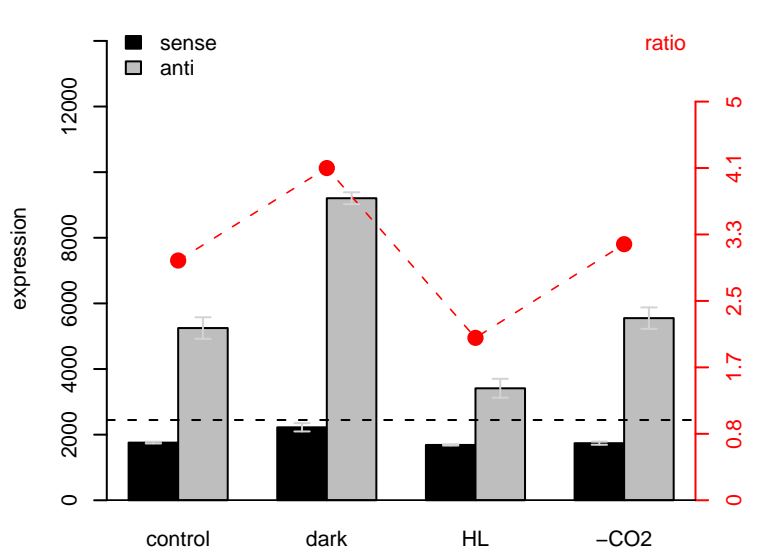
**genome\_1993**



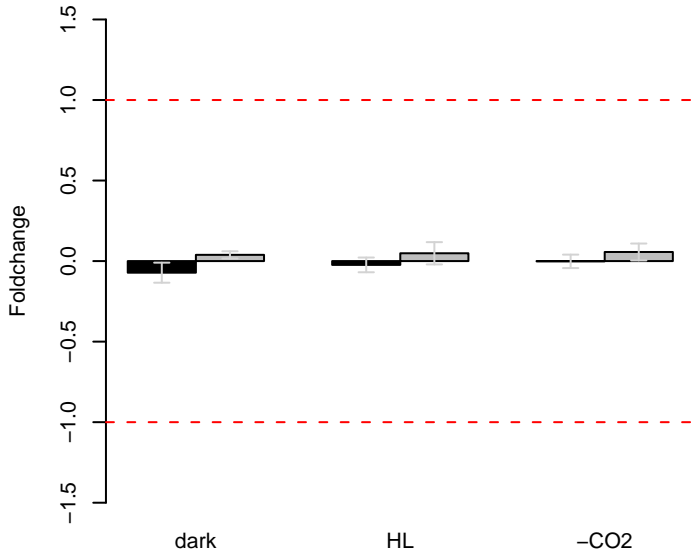
**pstA(slr1249)**



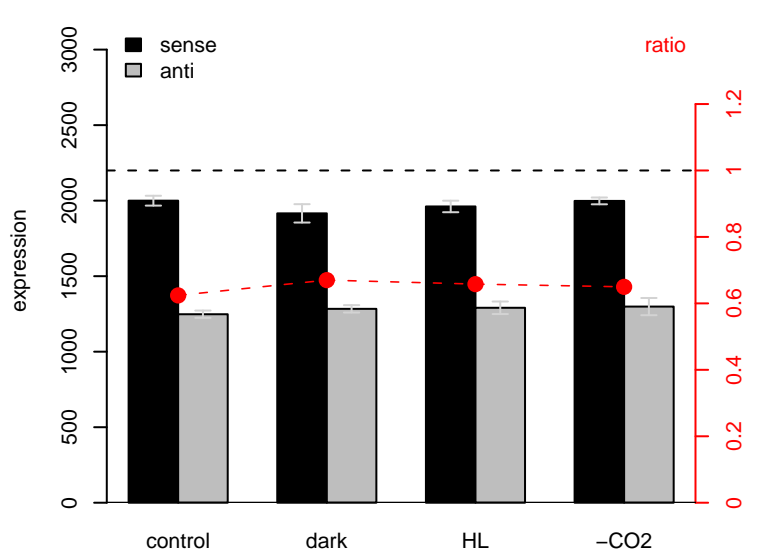
**genome\_1995**

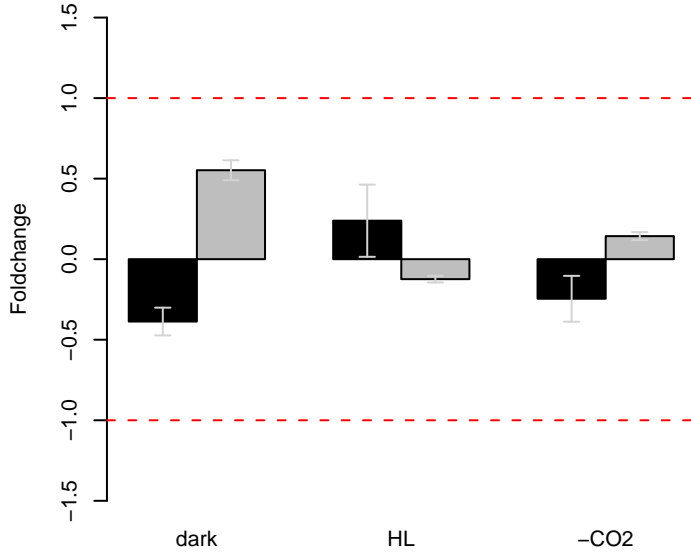
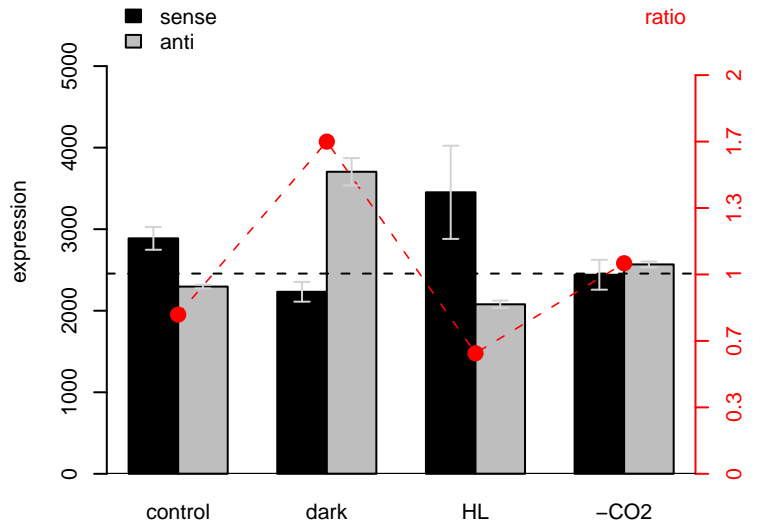
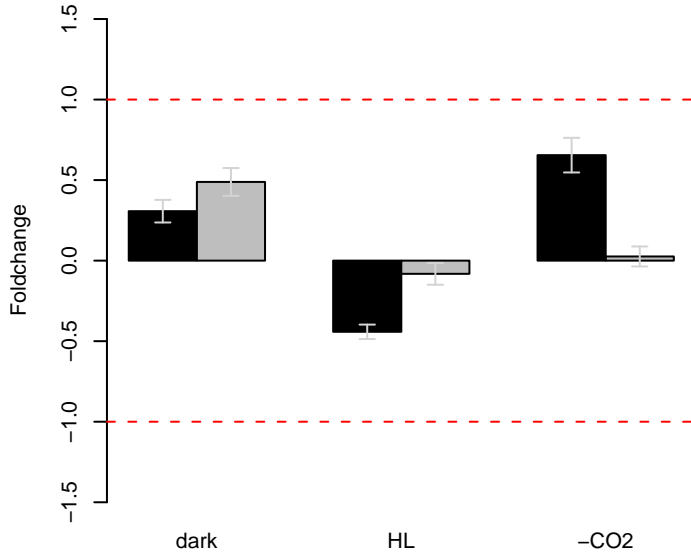
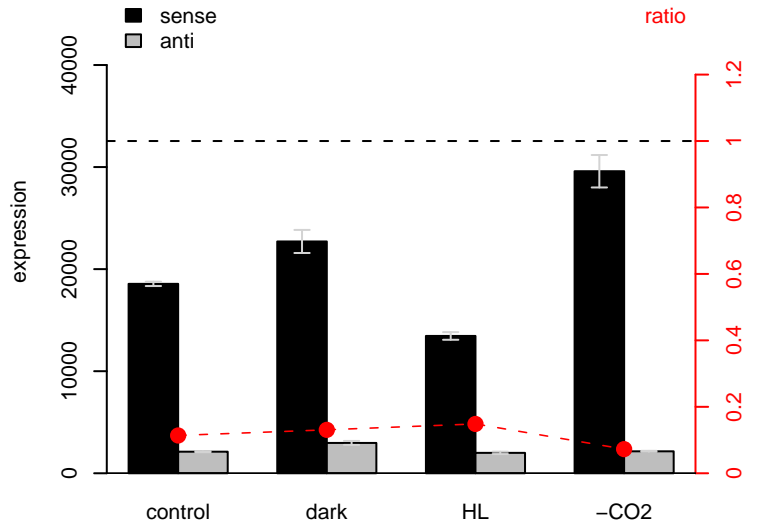
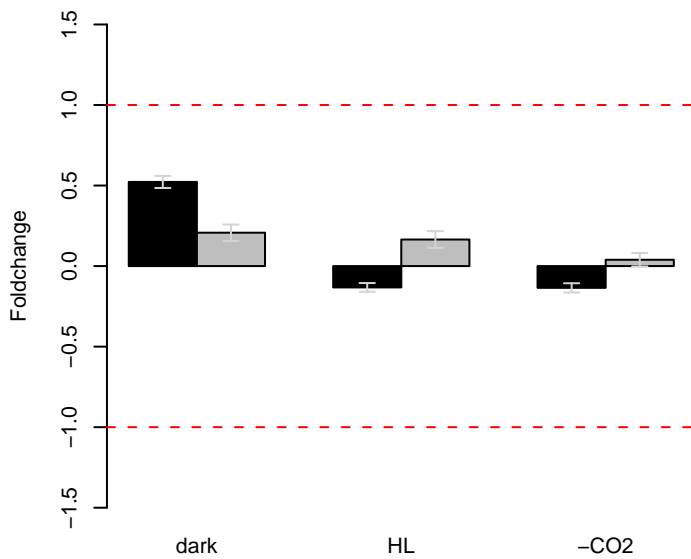
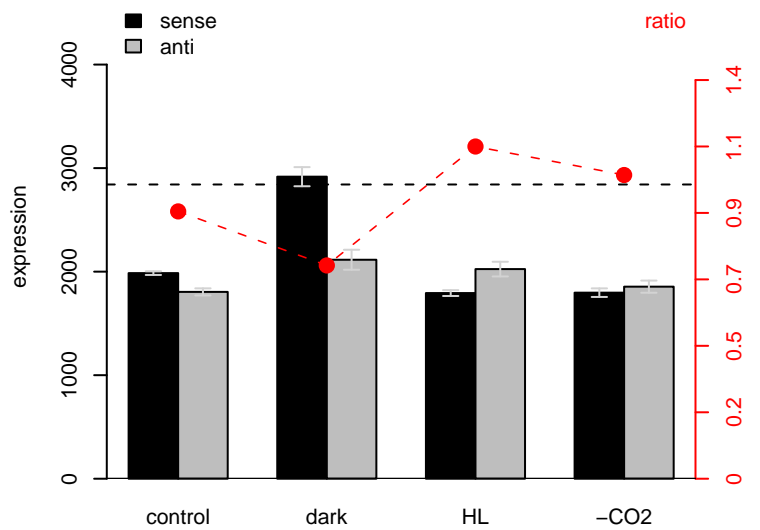


**slI1151**

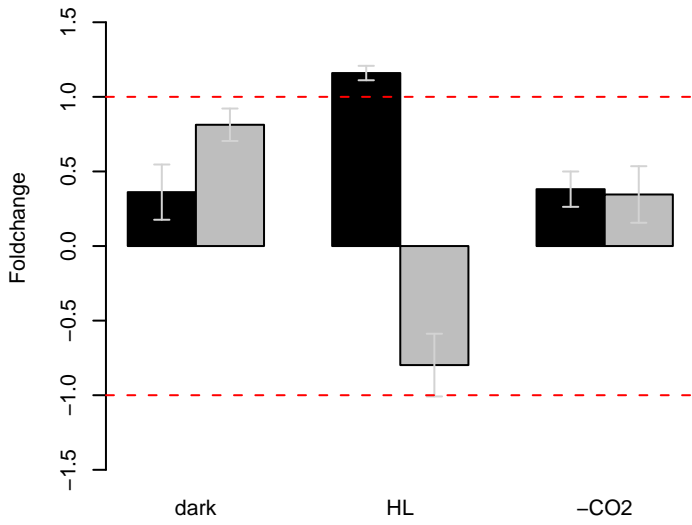


**genome\_2003**

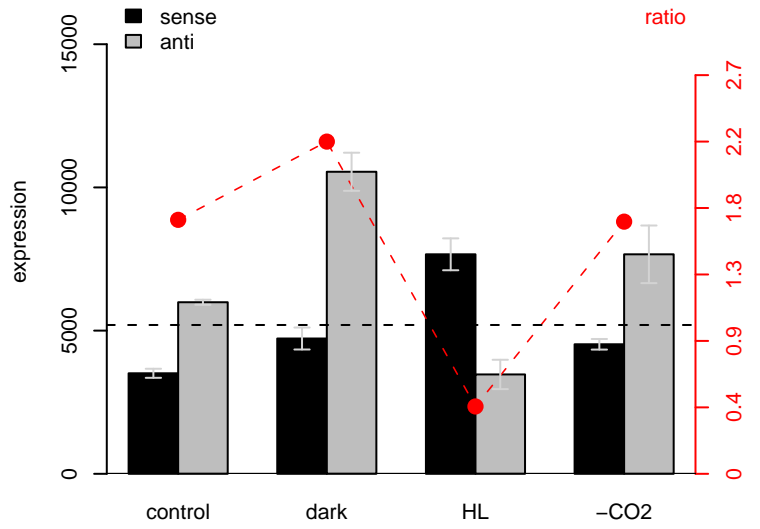


**ssr2087****genome\_2006****sli1150****genome\_2008****slr0245****genome\_200**

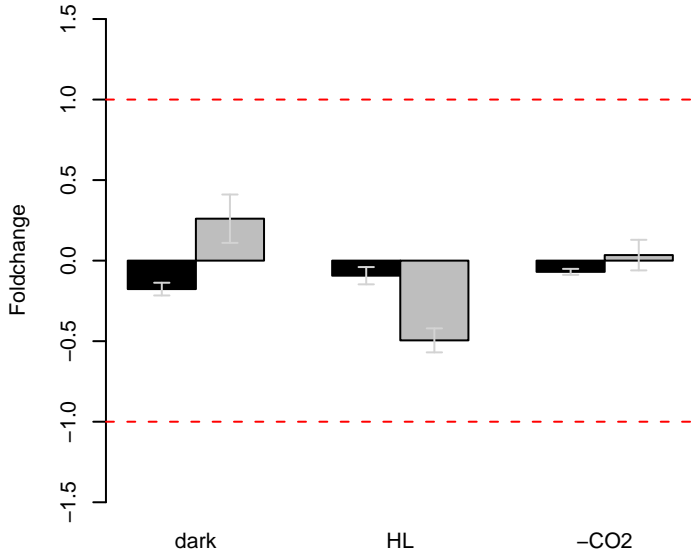
**pds(slr1254)**



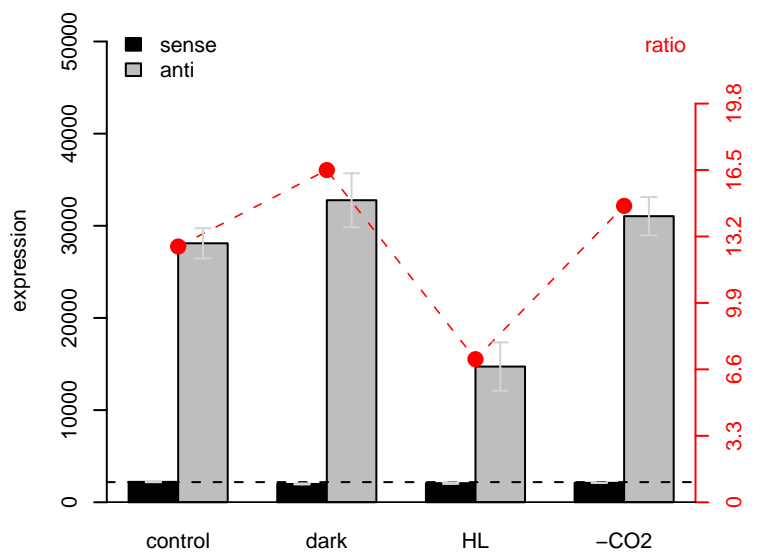
**genome\_2011**



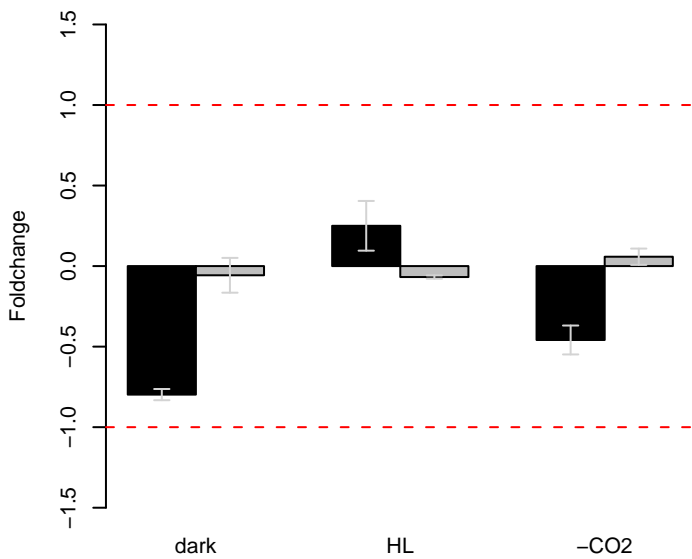
**slr1263**



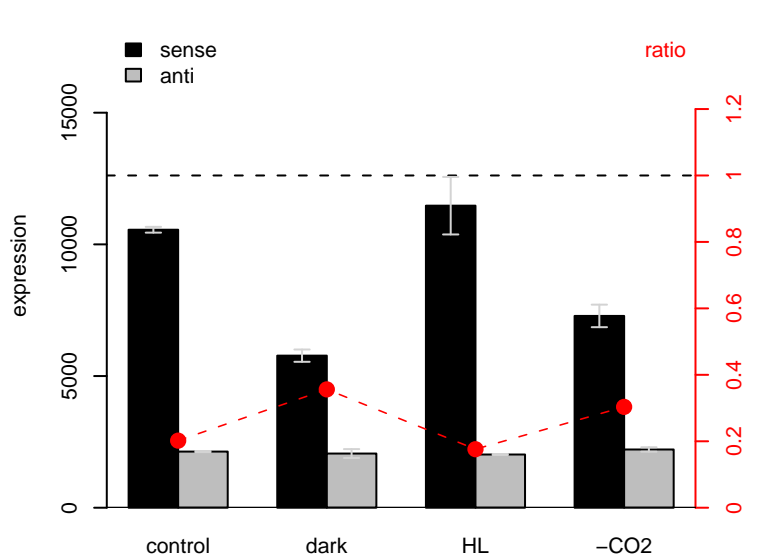
**genome\_2025**



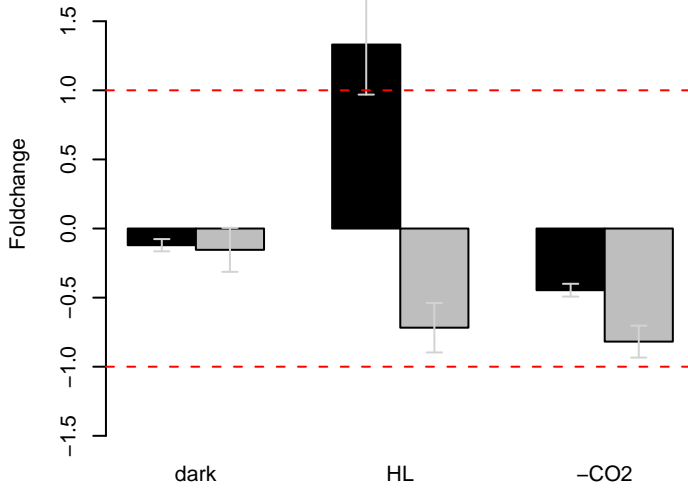
**ycf4(sll0226)**



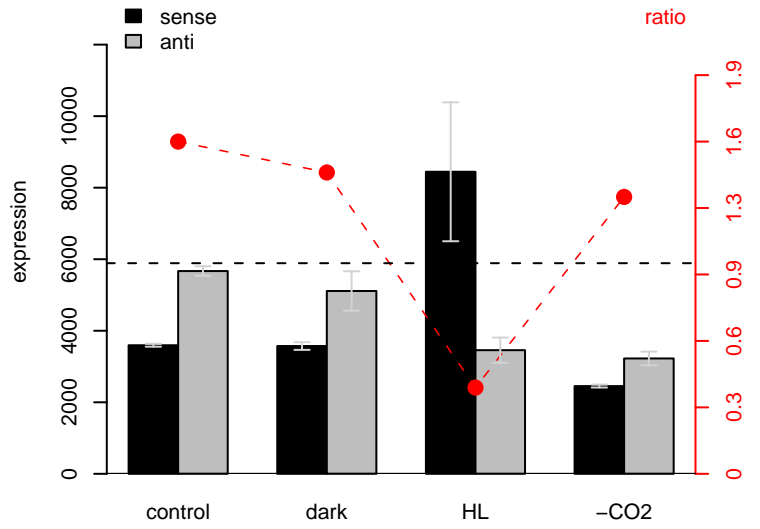
**genome\_205**



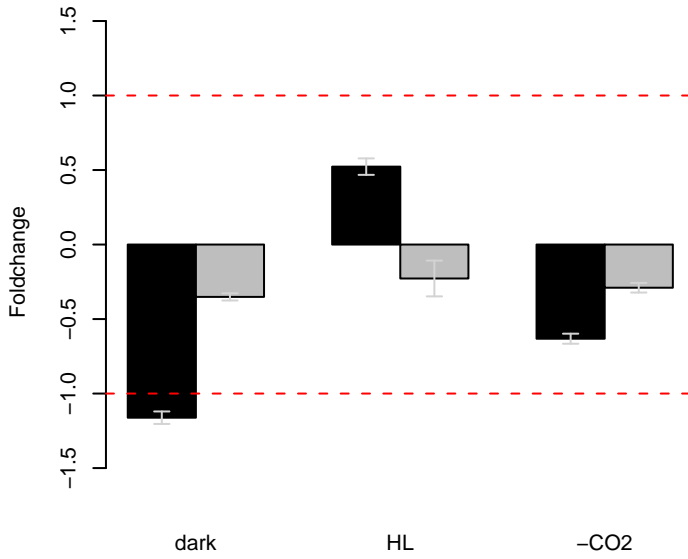
**sll1951**



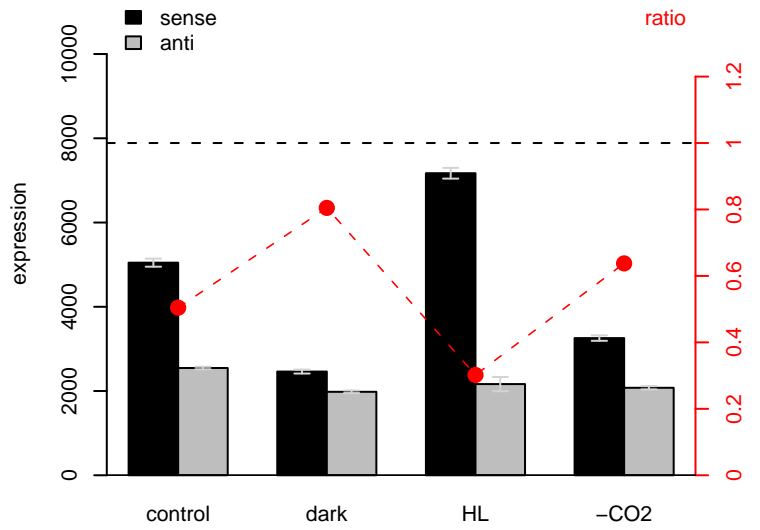
**genome\_2049**



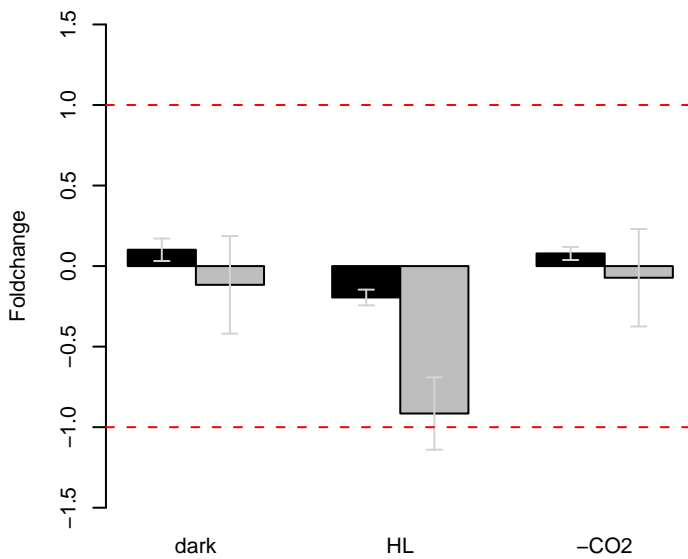
**serA(sll1908)**



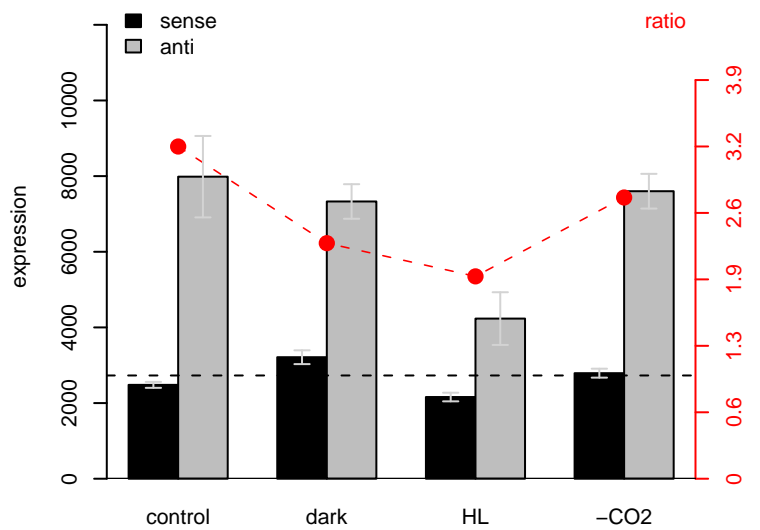
**genome\_2061**



**thl(slr1993)**

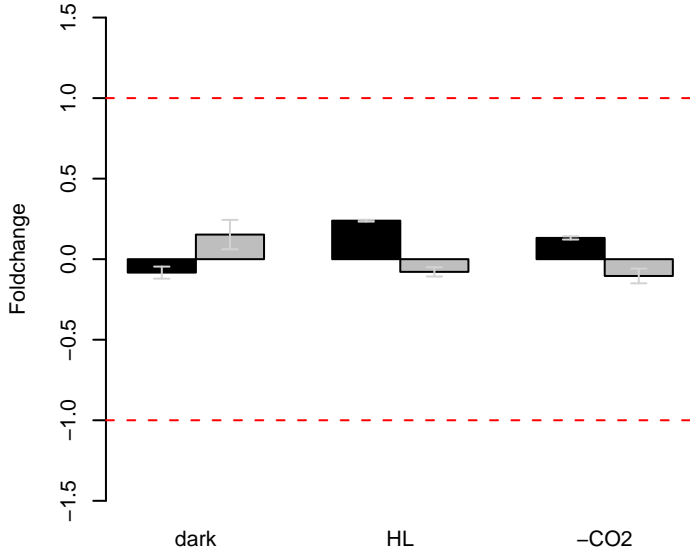


**genome\_2067**

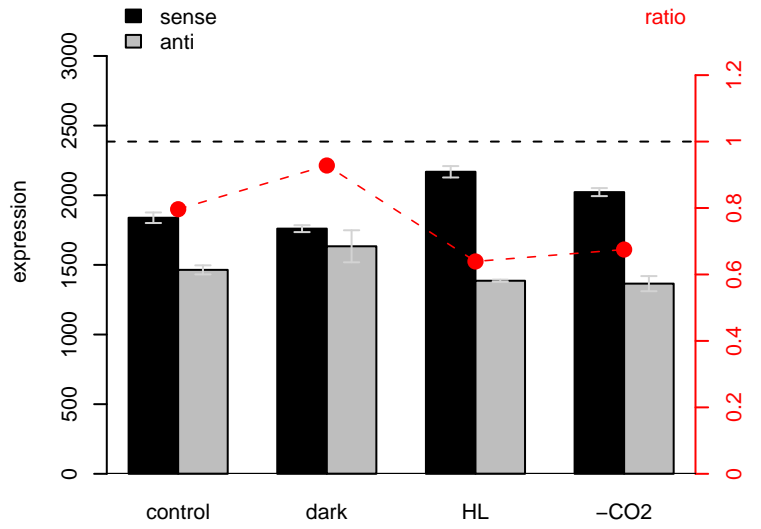




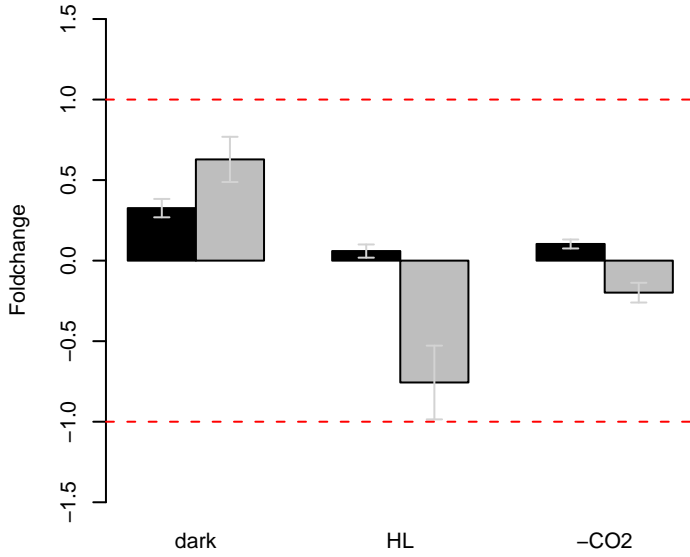
**sl1906**



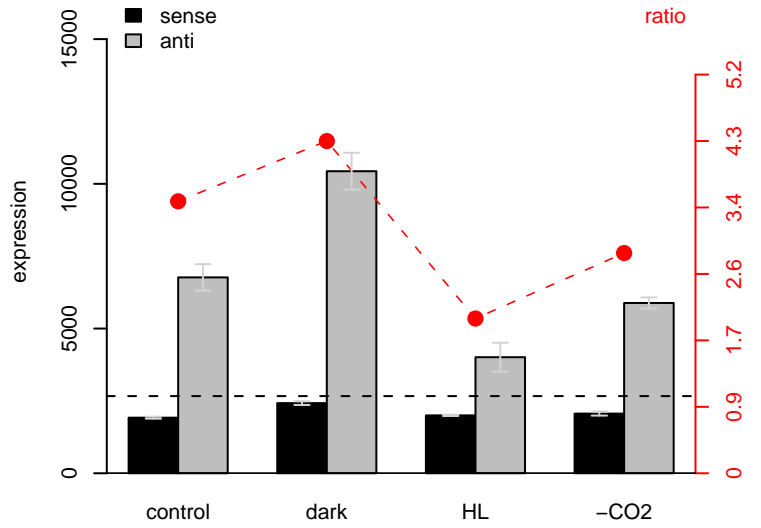
**genome\_2069**



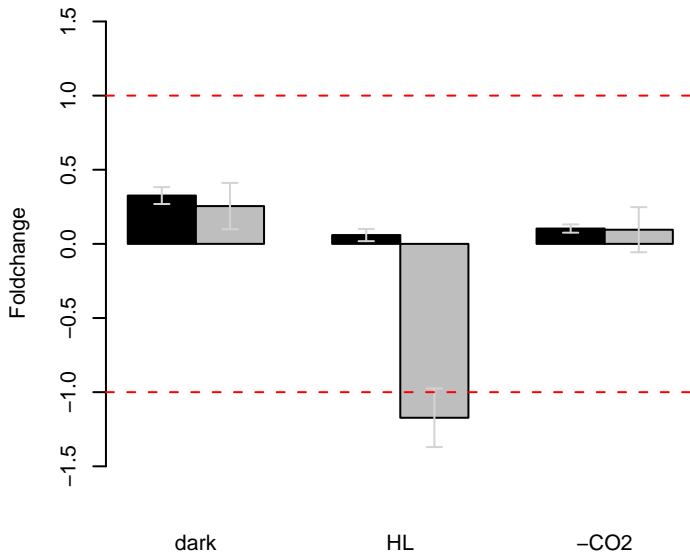
**slr2000**



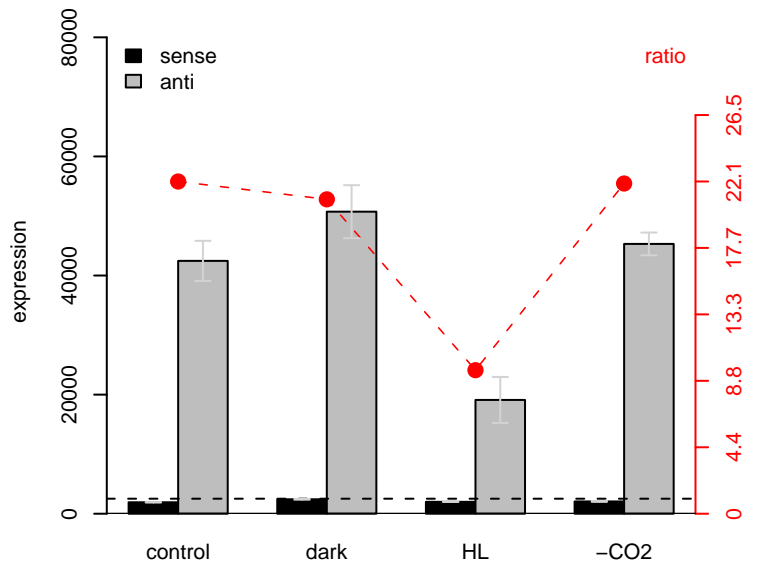
**genome\_2074**

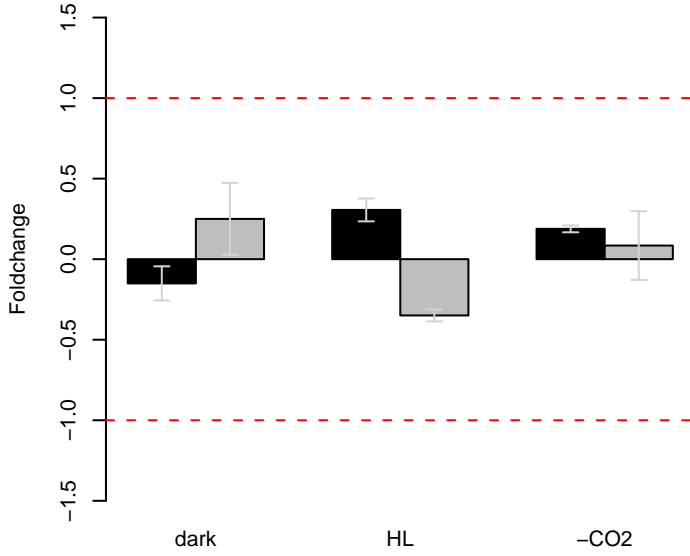
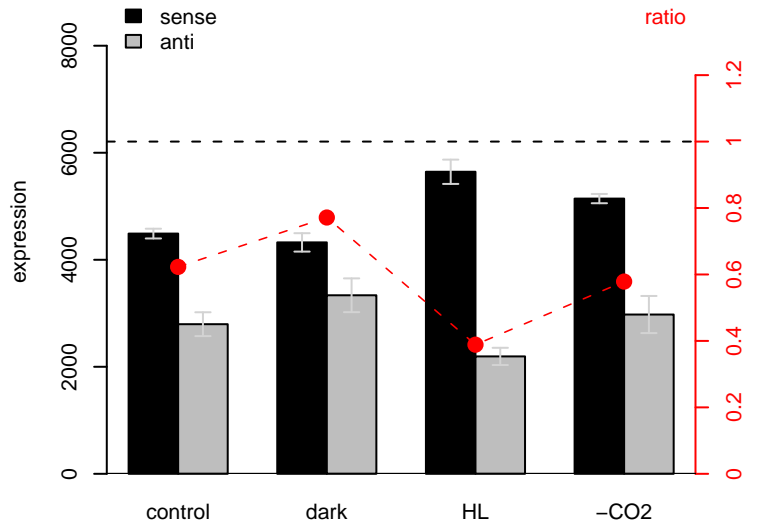
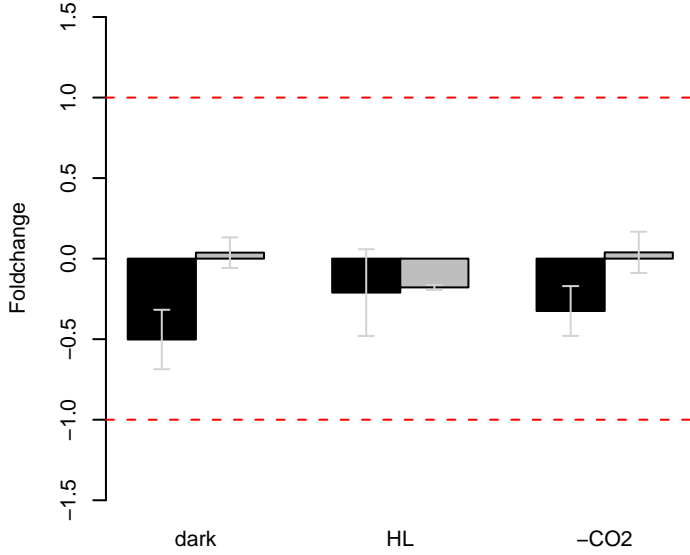
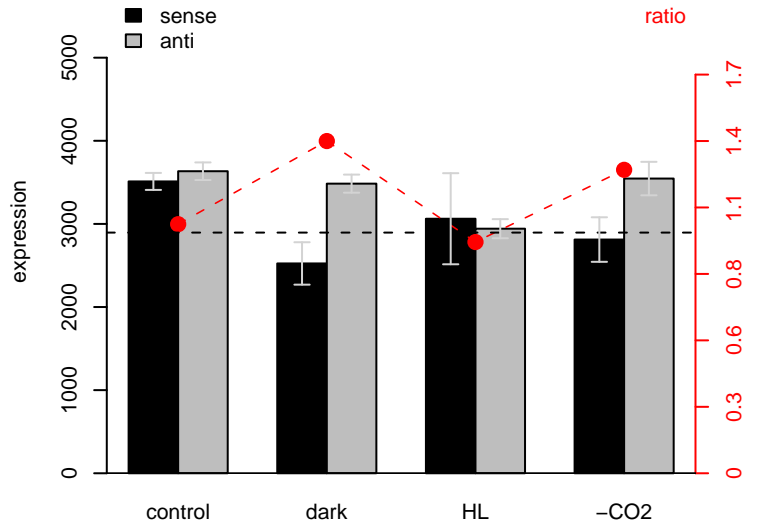
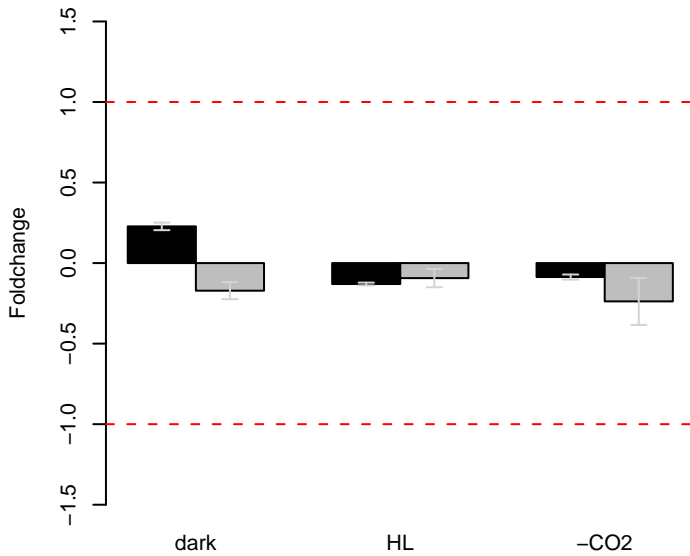
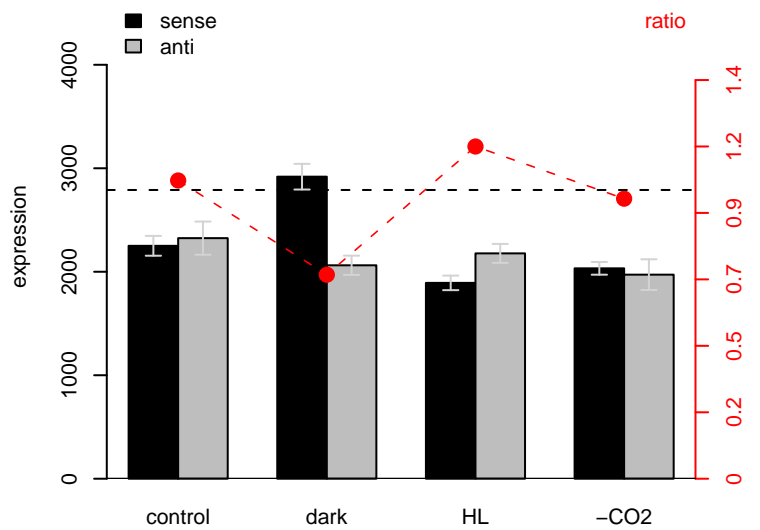


**slr2000**

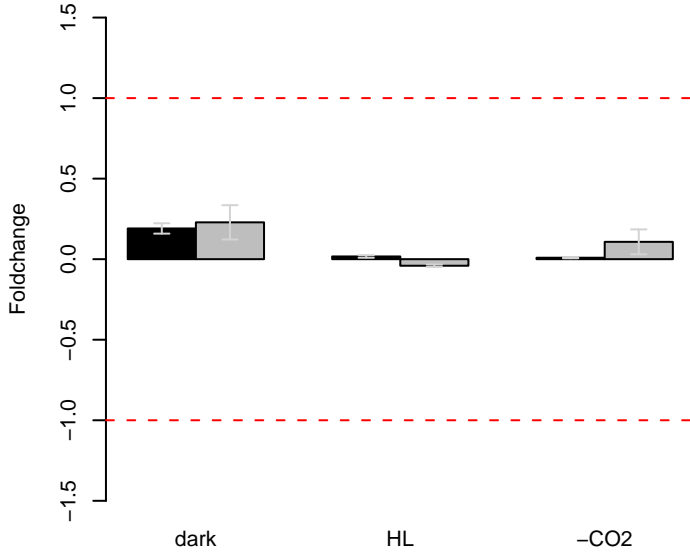


**genome\_2074**

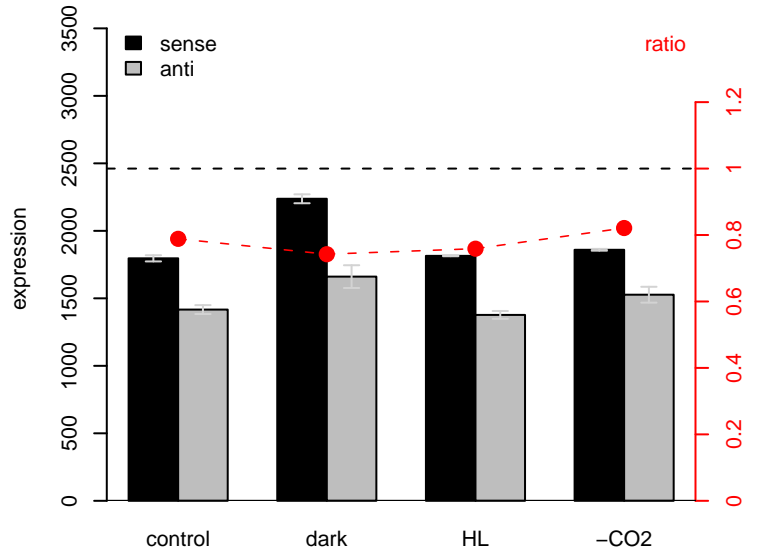


**slr2001****genome\_2077****slr0224****genome\_207****slr1902****genome\_2081**

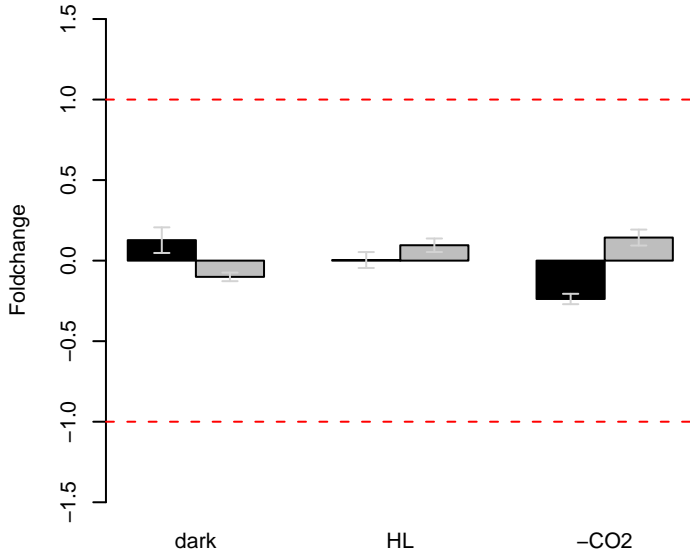
**pma1(sll1614)**



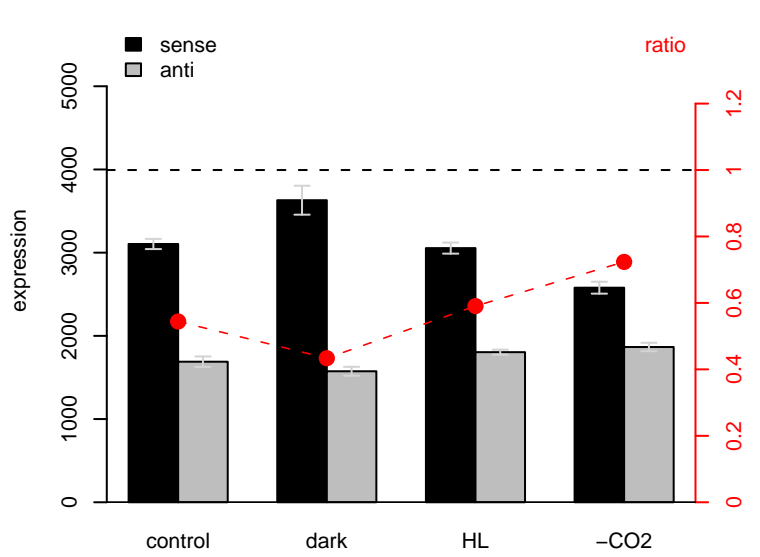
**genome\_2087**



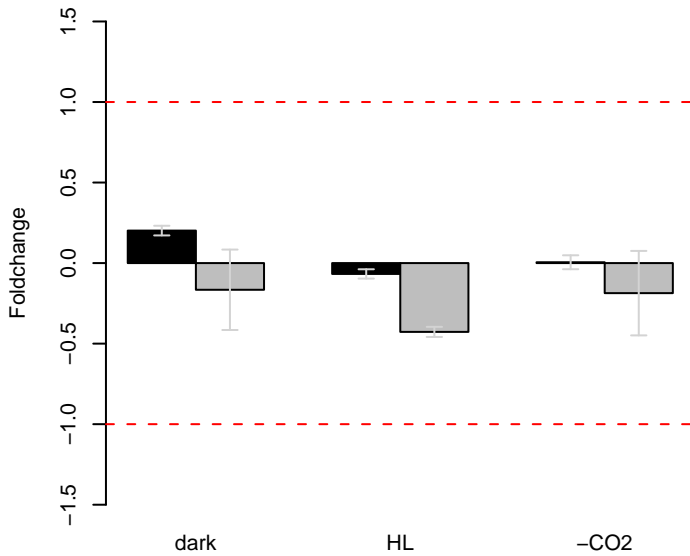
**sll1606**



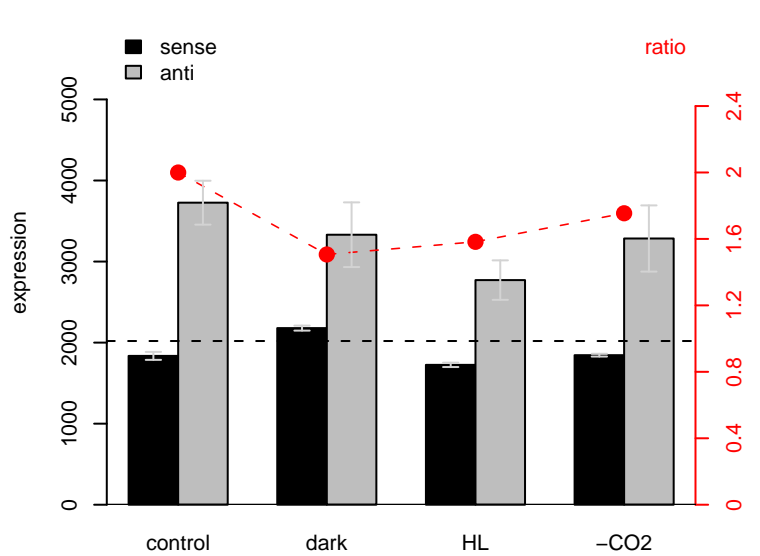
**genome\_2098**

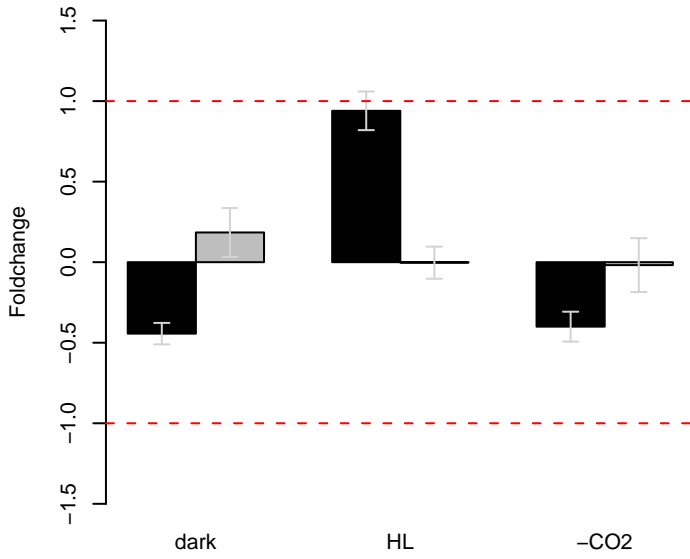
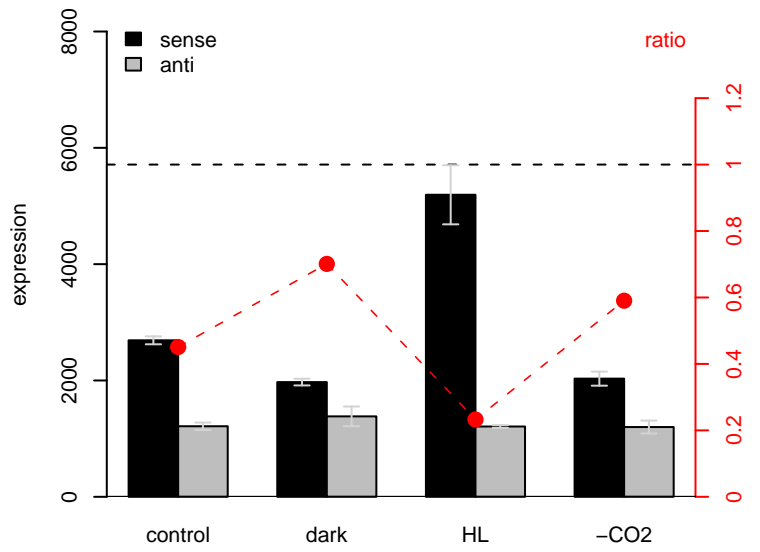
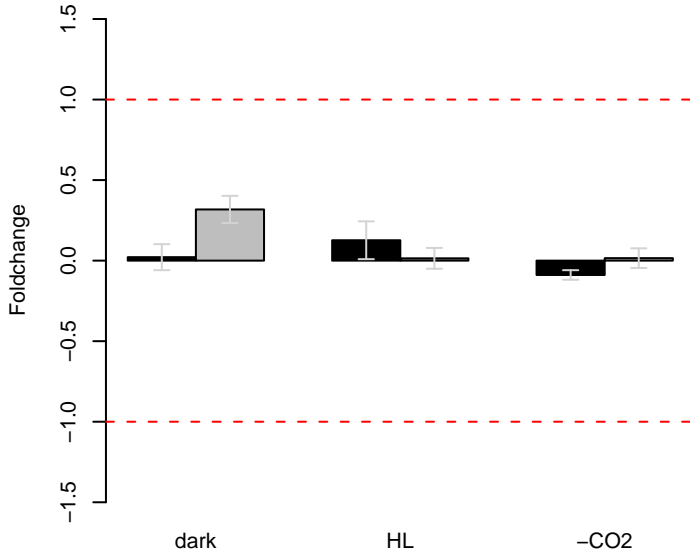
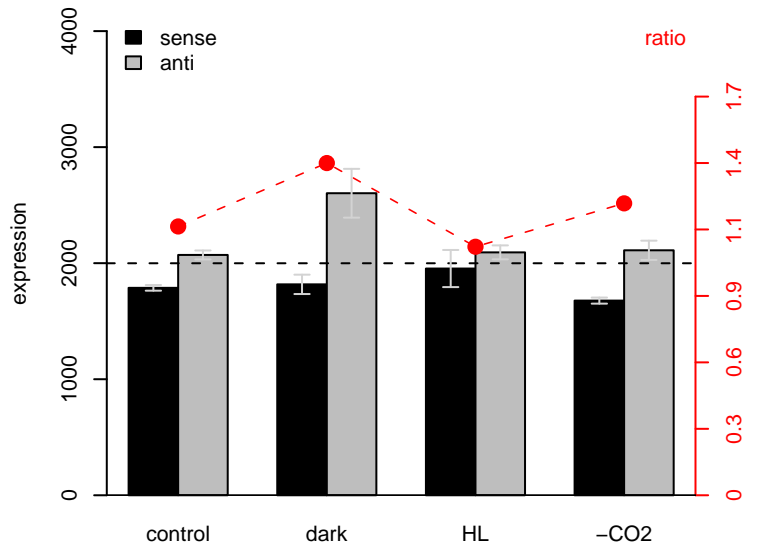
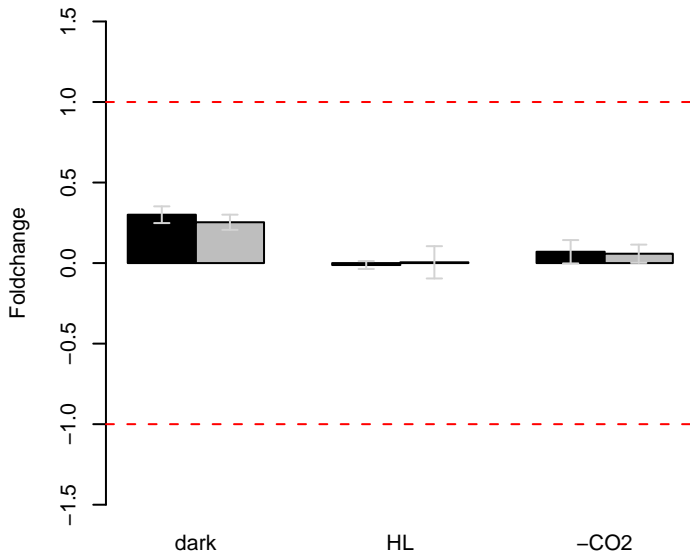
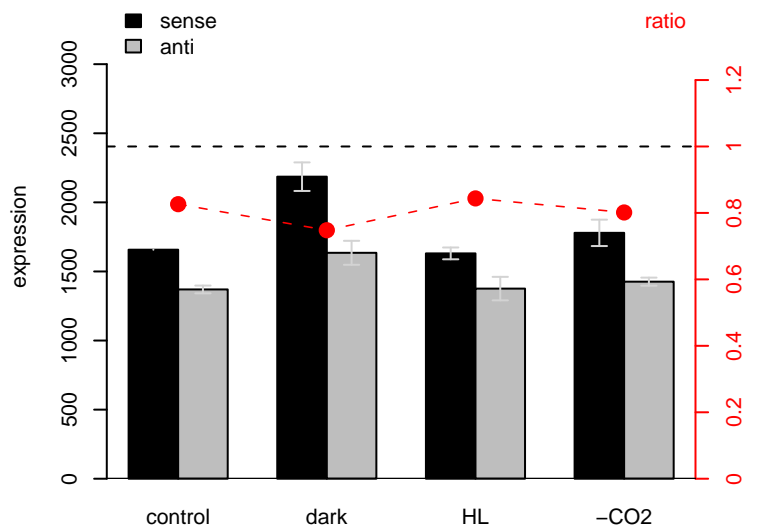


**fecC(slr1316)**

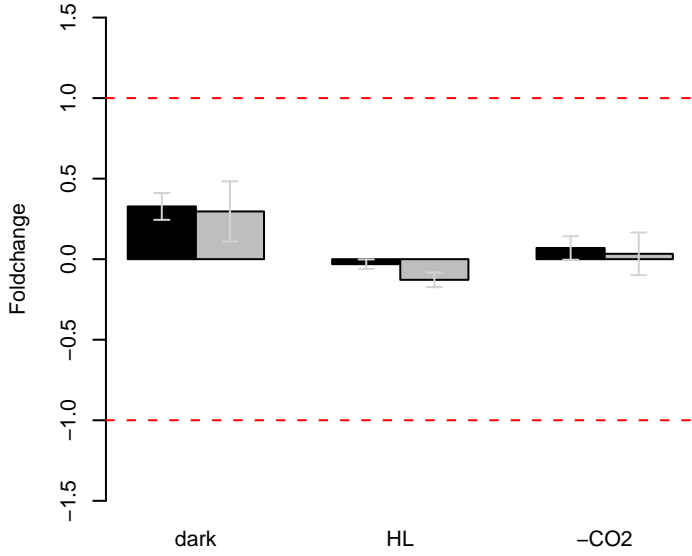


**genome\_20**

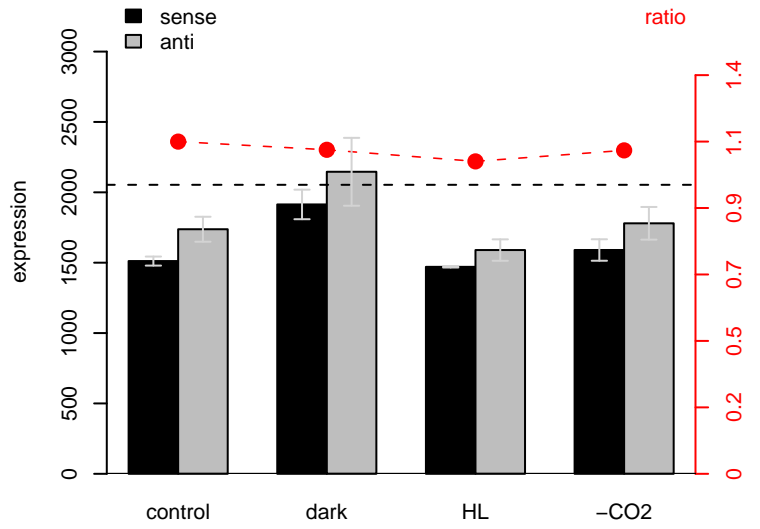


**aspS(slr1720)****genome\_2105****lacG(slr1723)****genome\_2109****mntB(sll1600)****genome\_2114**

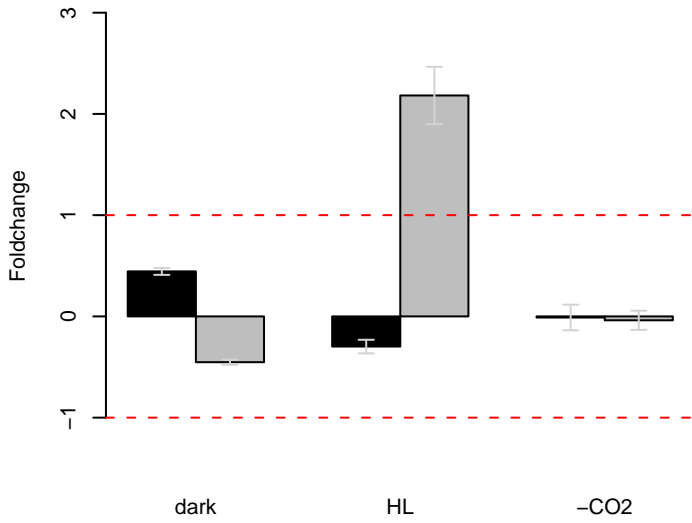
**mntA(sll1599)**



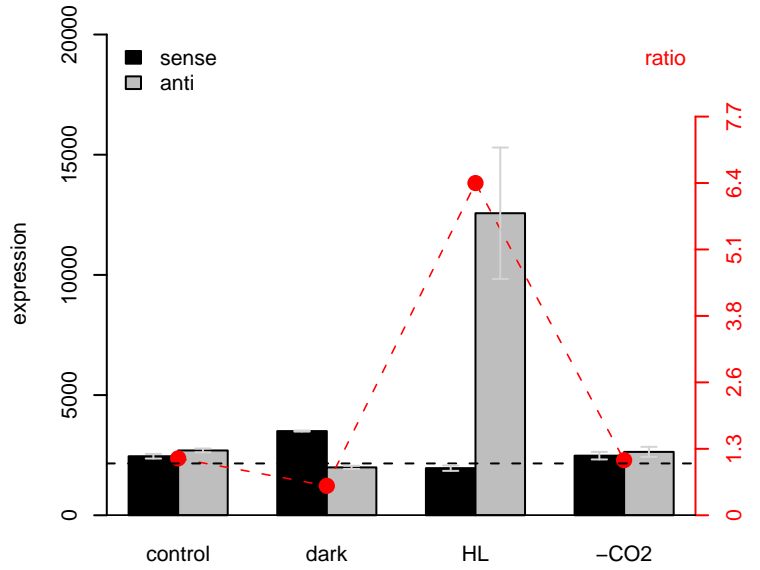
**genome\_2116**



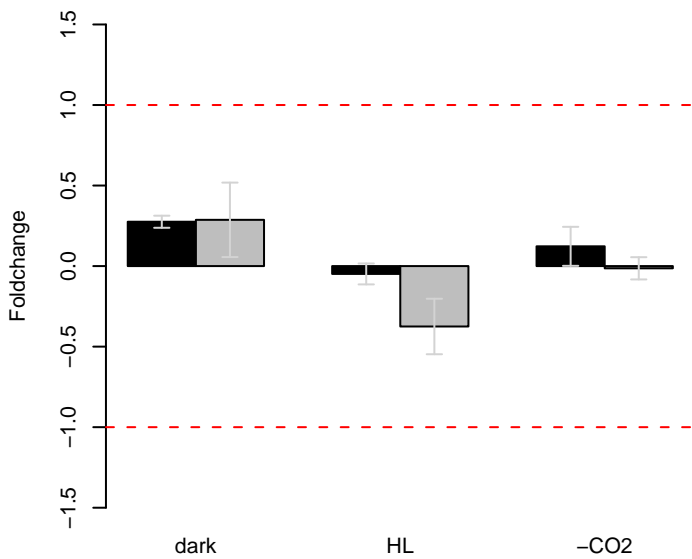
**slr1726**



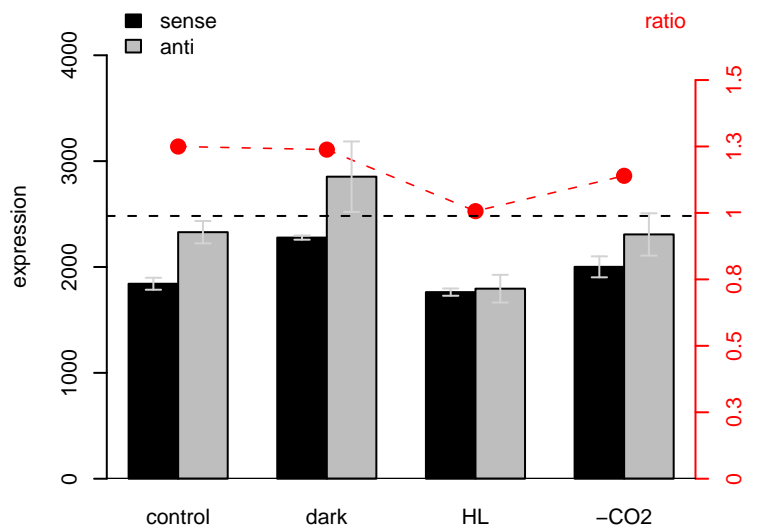
**genome\_2124**

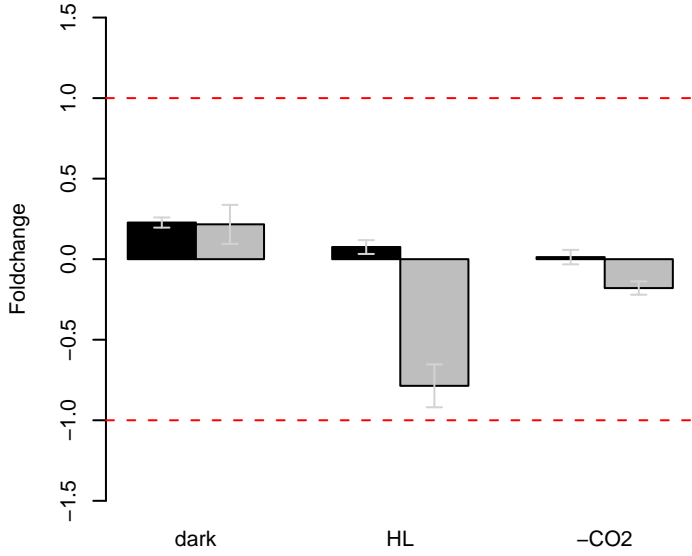
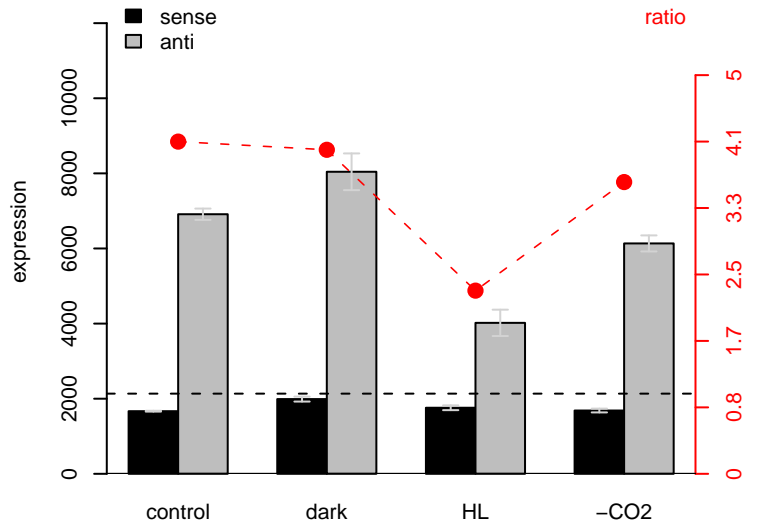
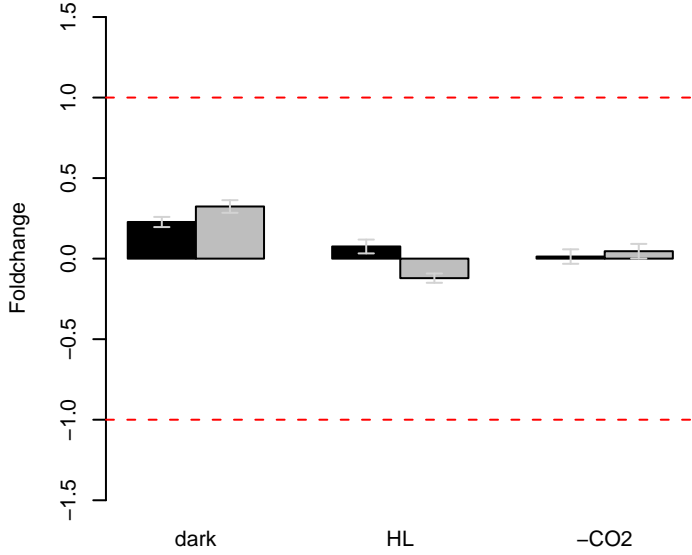
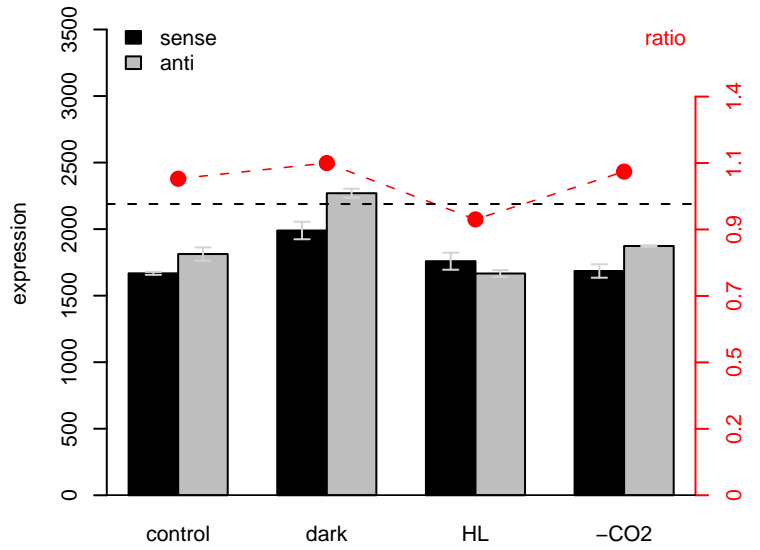
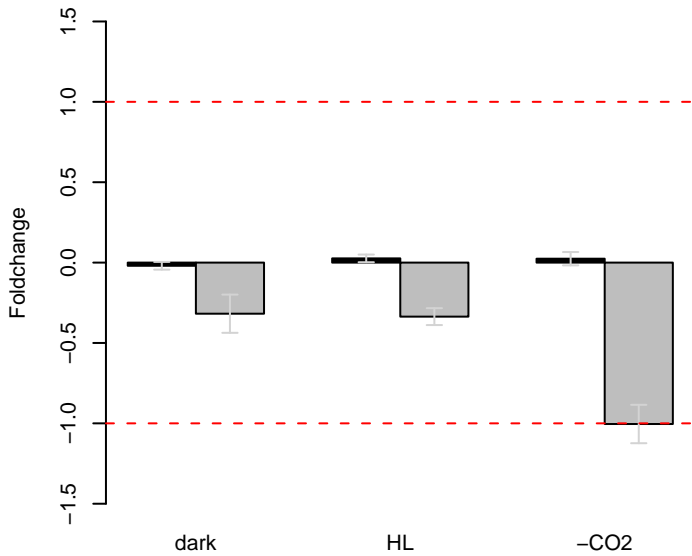
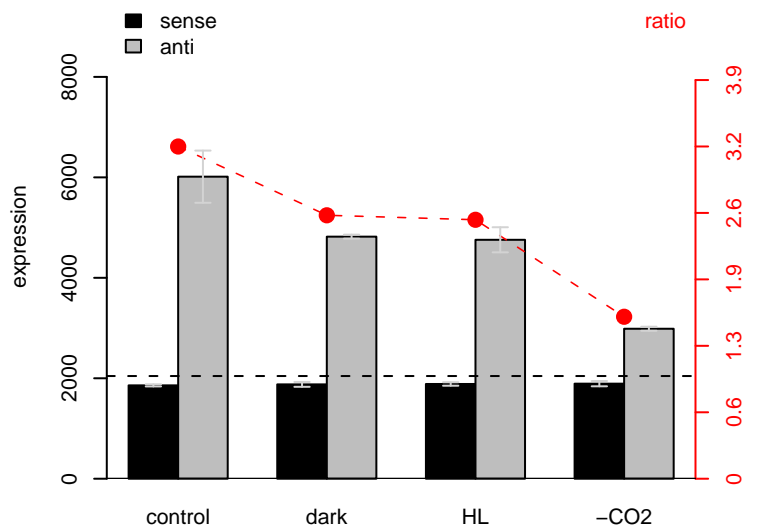


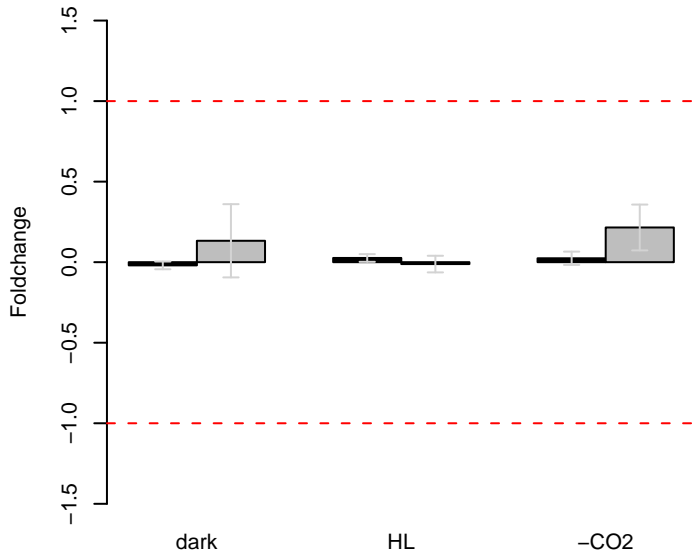
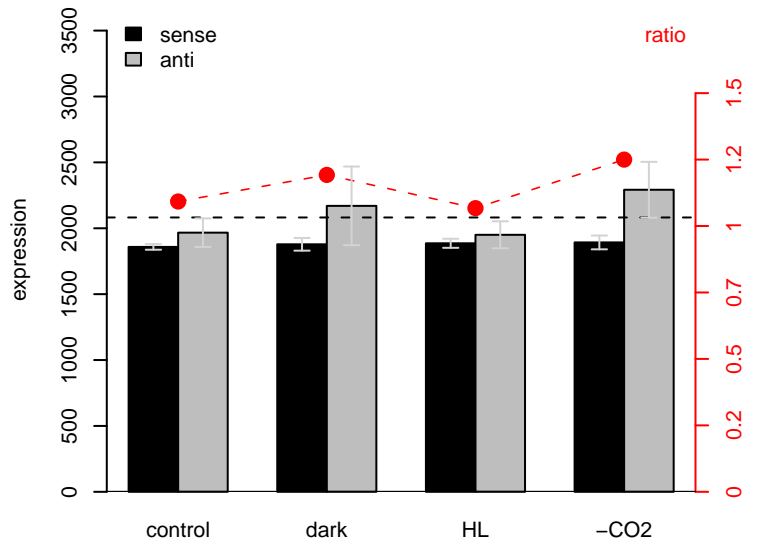
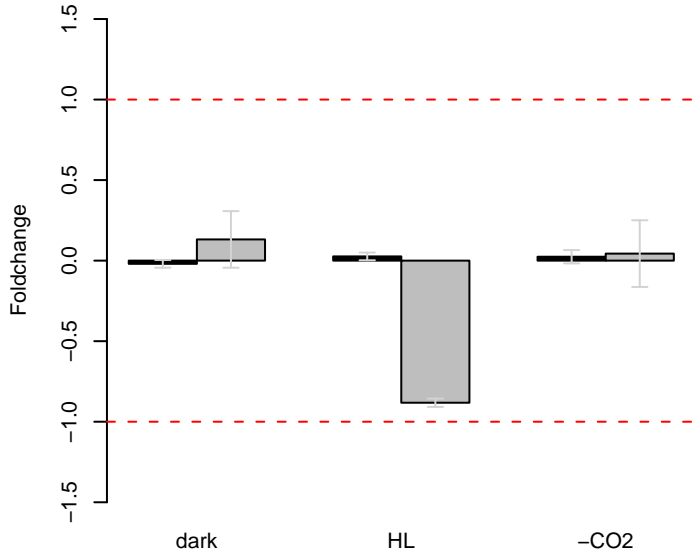
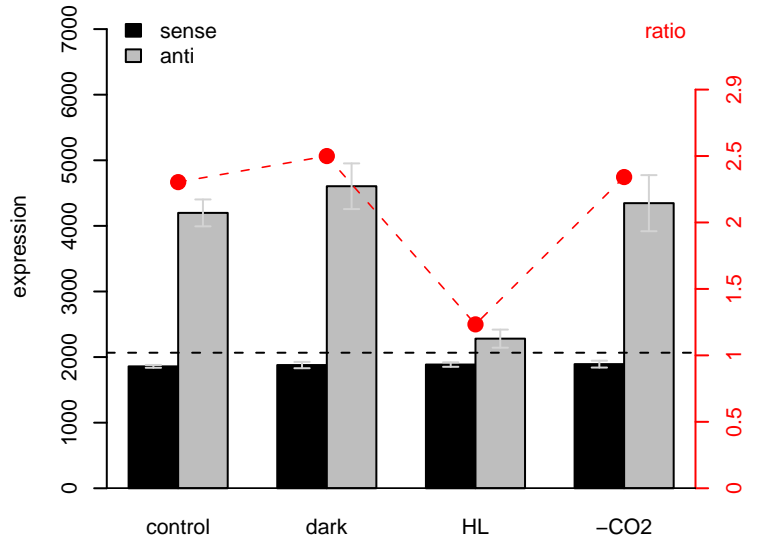
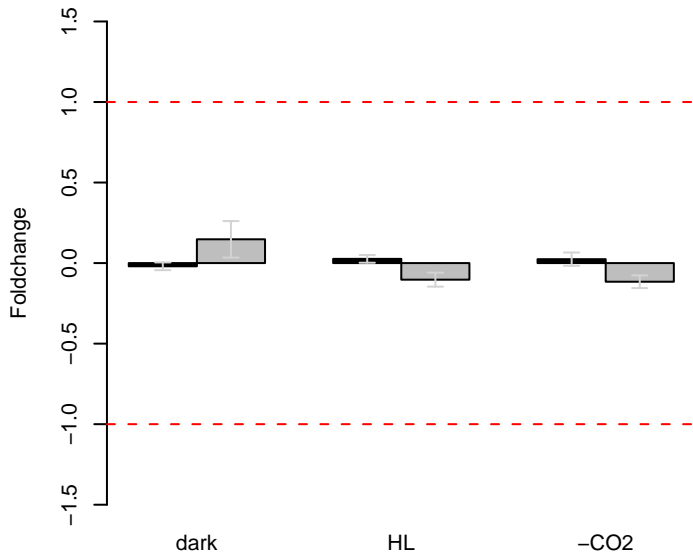
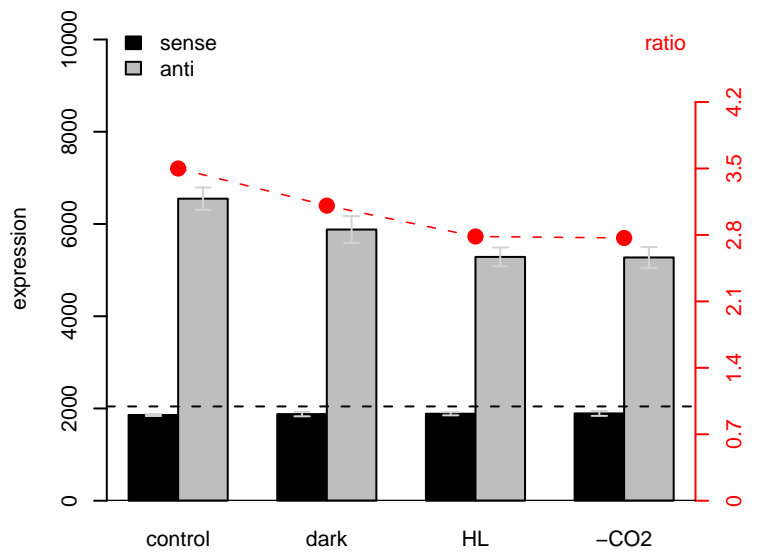
**kdpA(slr1728)**



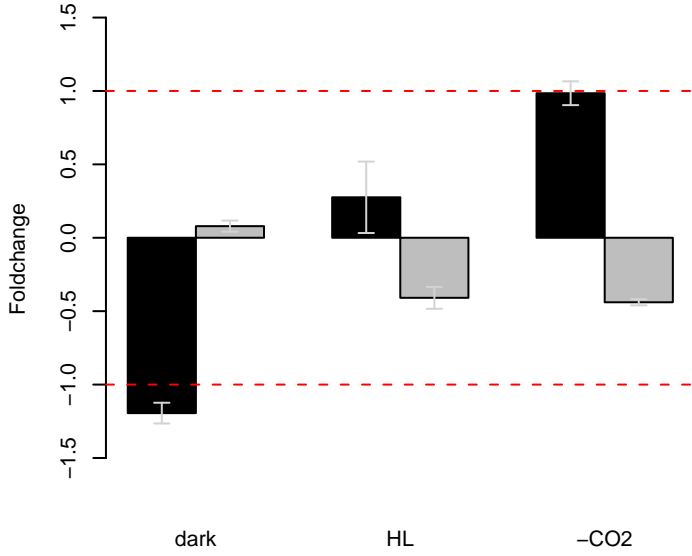
**genome\_2133**



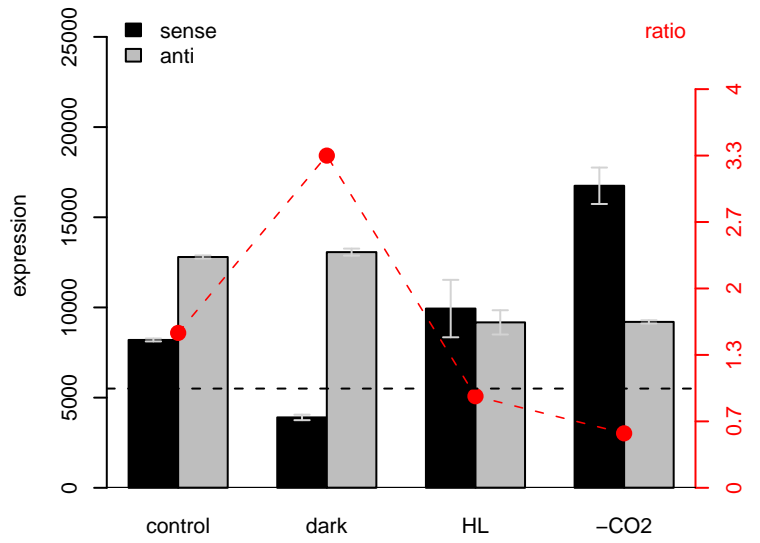
**kdpD(sl1731)****genome\_2138****kdpD(sl1731)****genome\_2138****sl11586****genome\_2141**

**sll1586****genome\_2141****sll1586****genome\_2141****sll1586****genome\_2141**

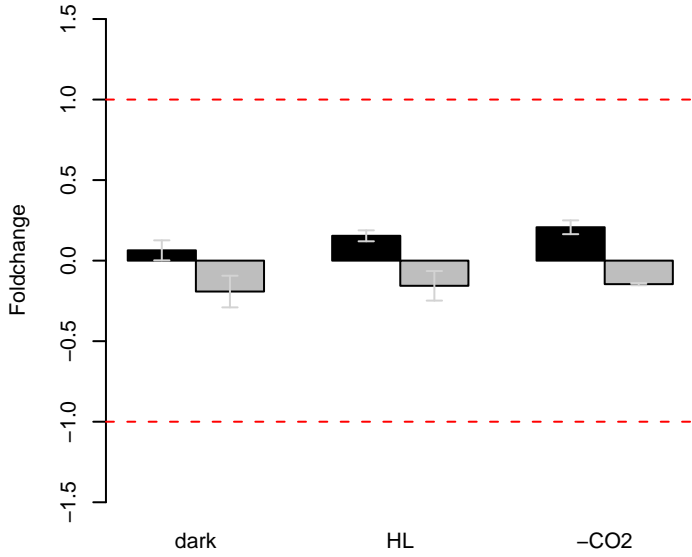
**ndhH(slr0261)**



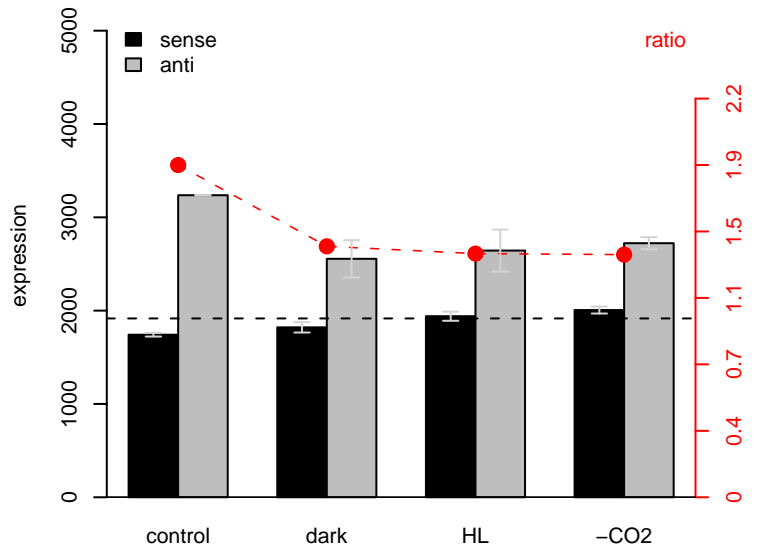
**genome\_2151**



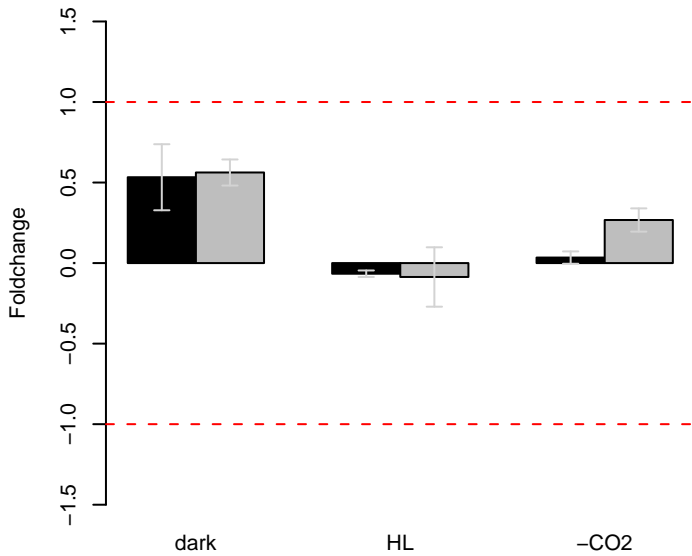
**slr0264**



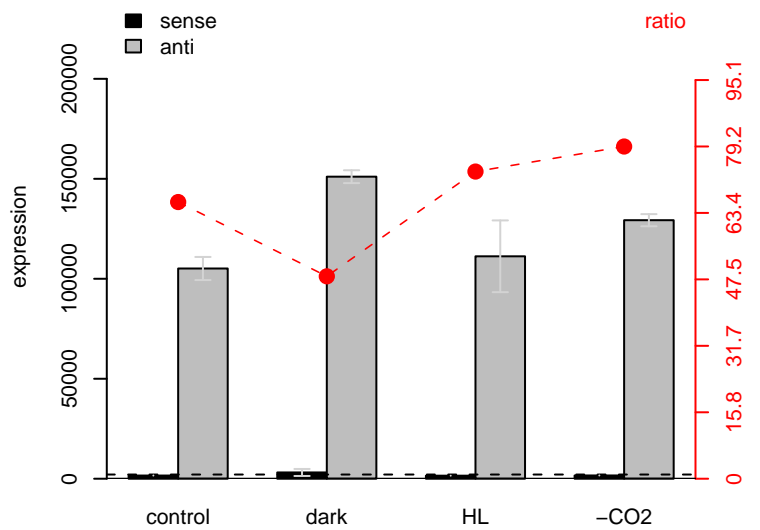
**genome\_2155**



**isiA(sll0247)**

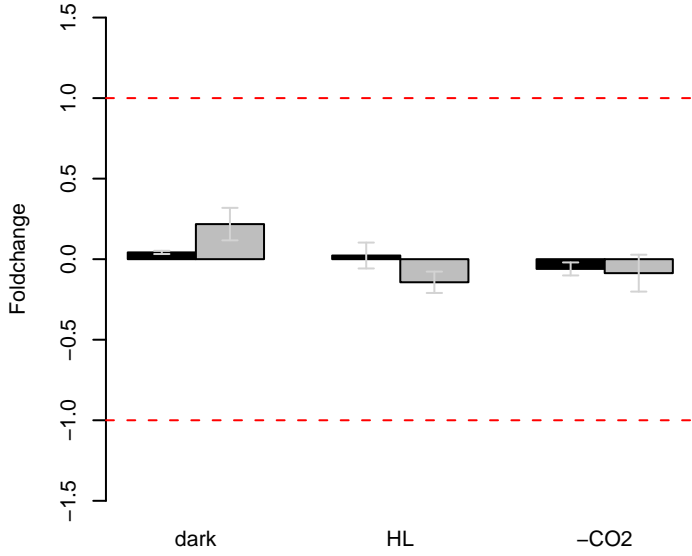


**genome\_2162**

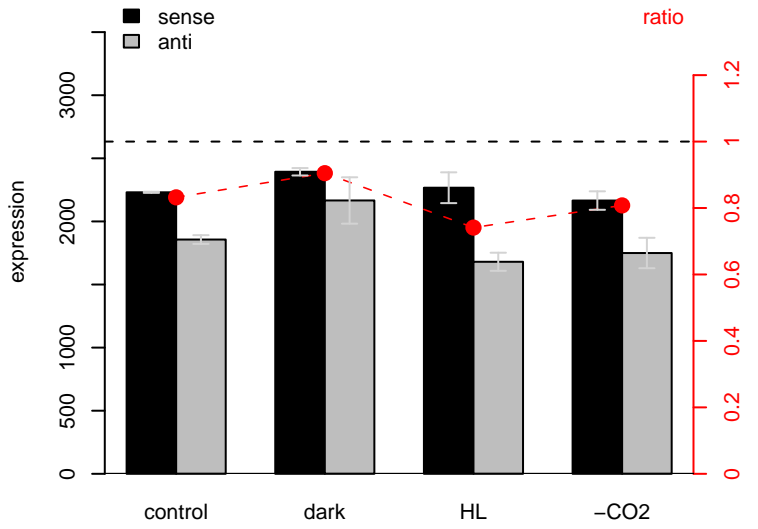




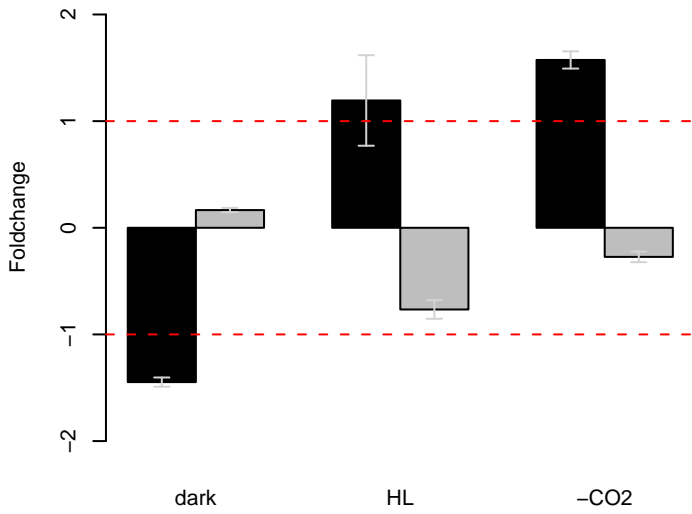
**galE(sII0244)**



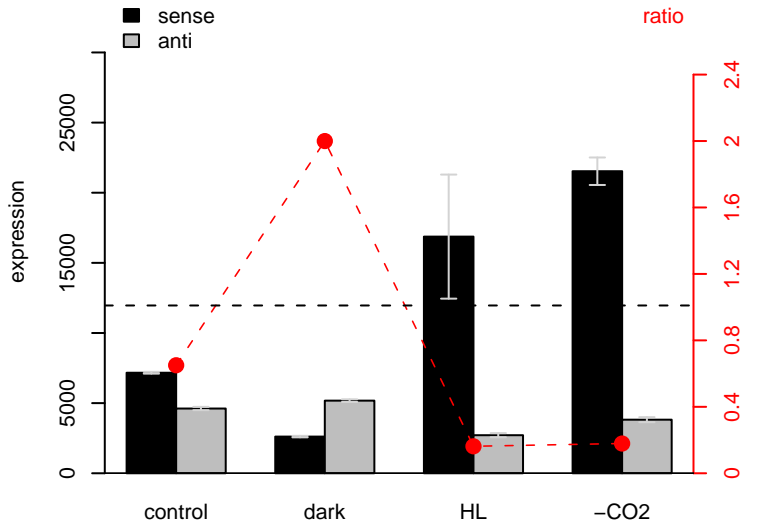
**genome\_2167**



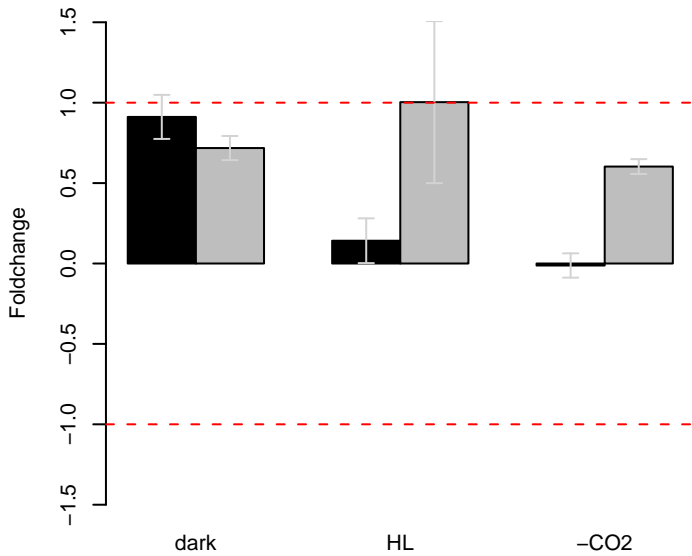
**ndhB(sII0223)**



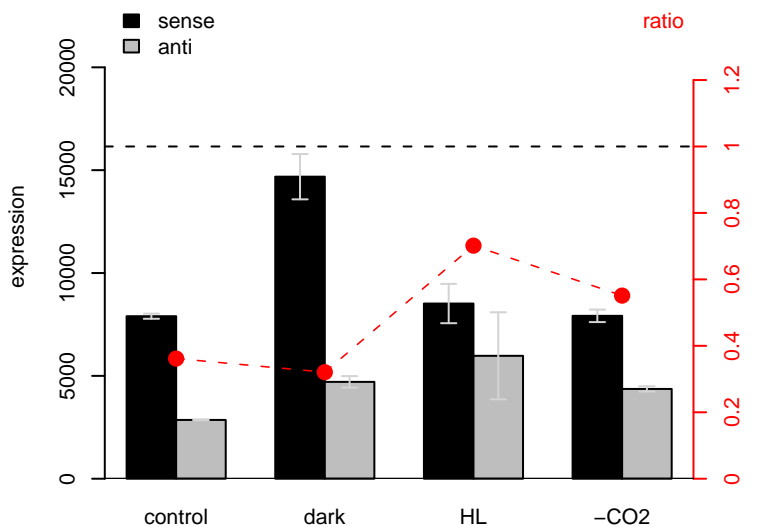
**genome\_216**

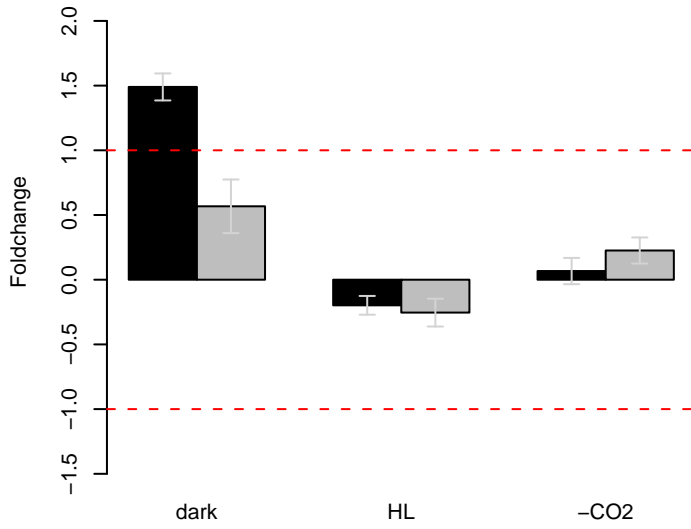
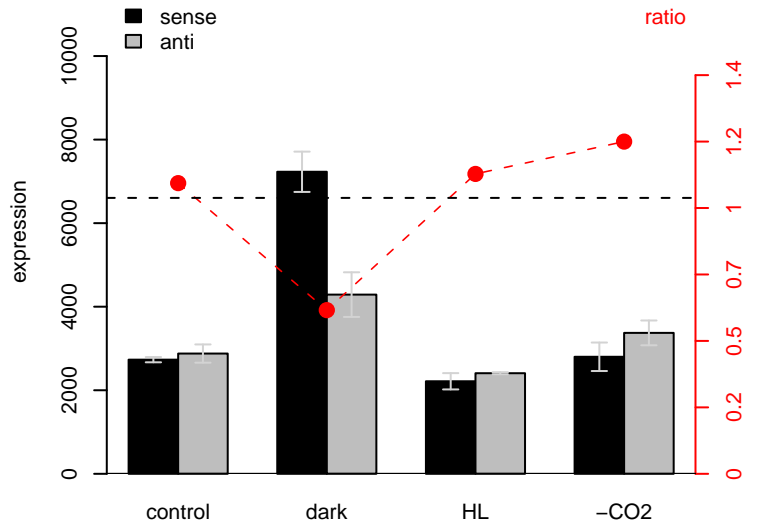
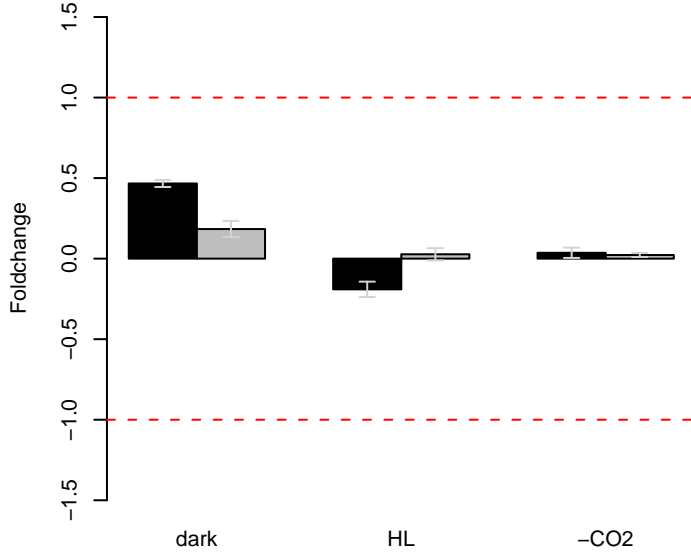
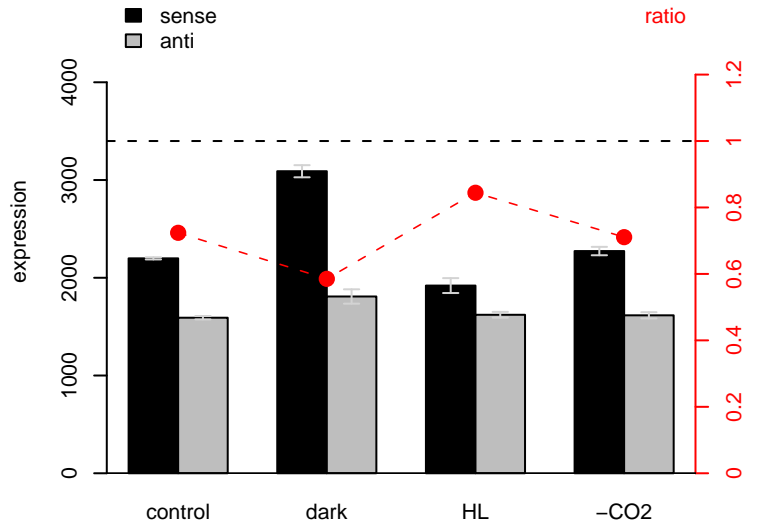
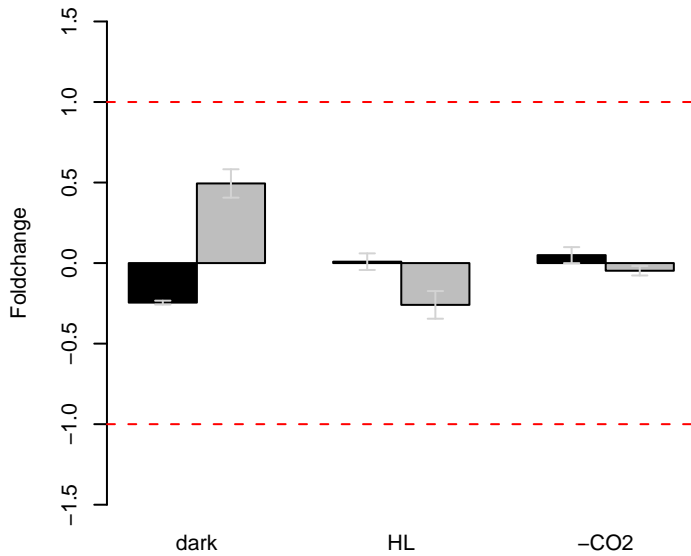
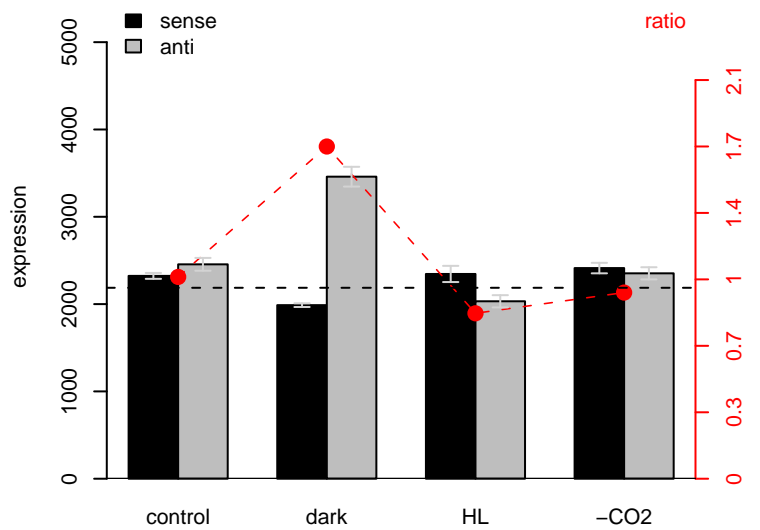


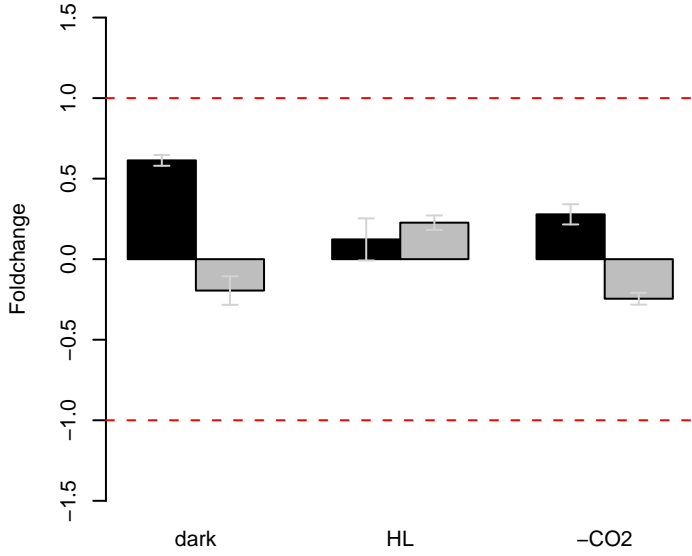
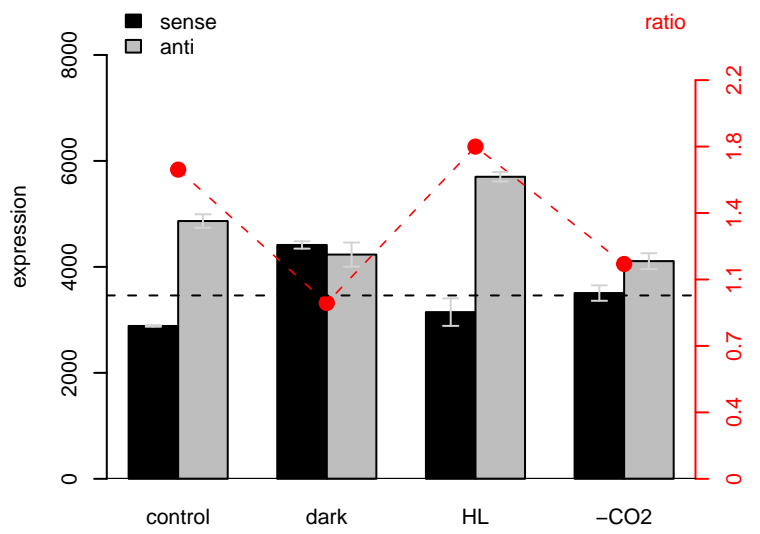
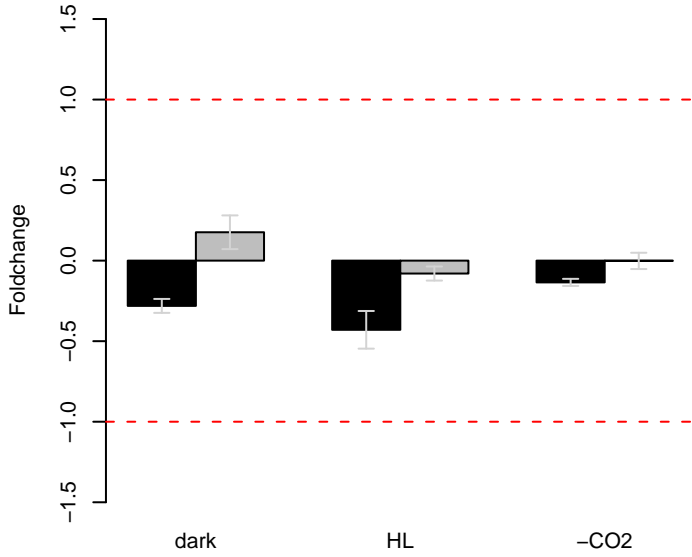
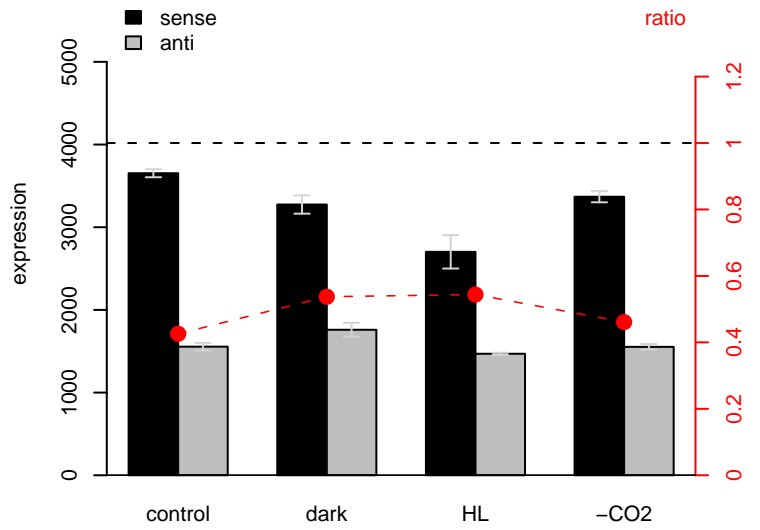
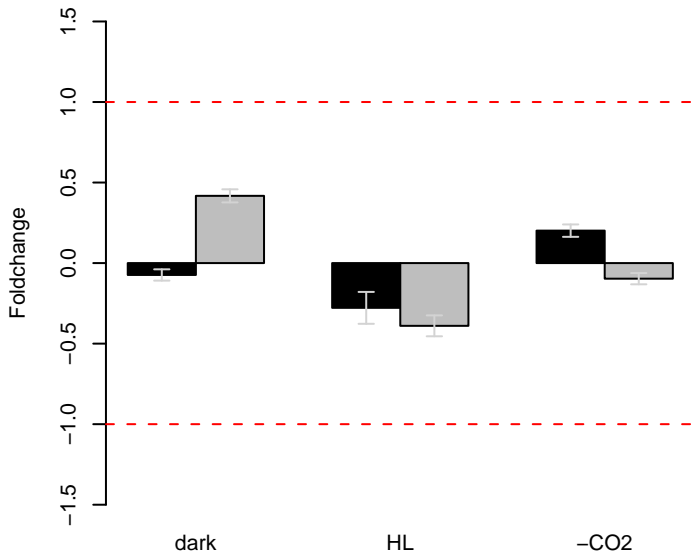
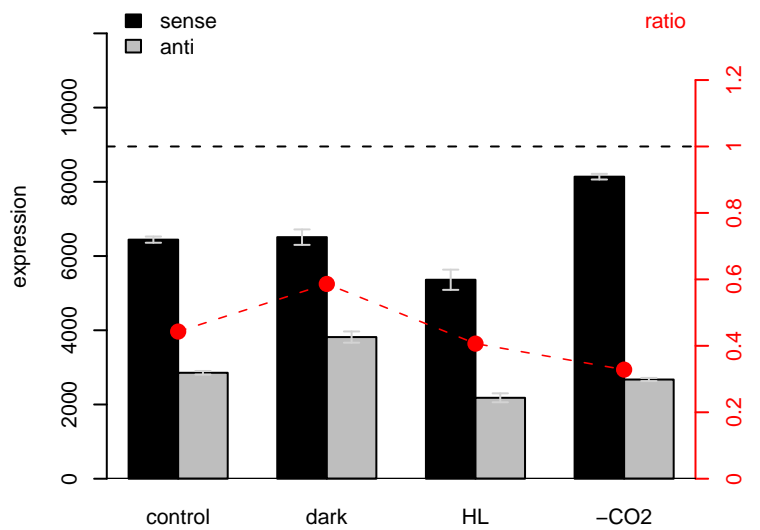
**slr0270**



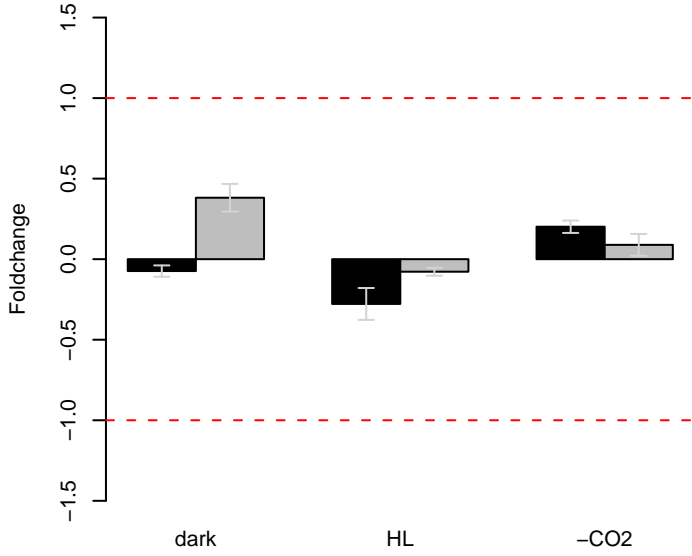
**genome\_2170**



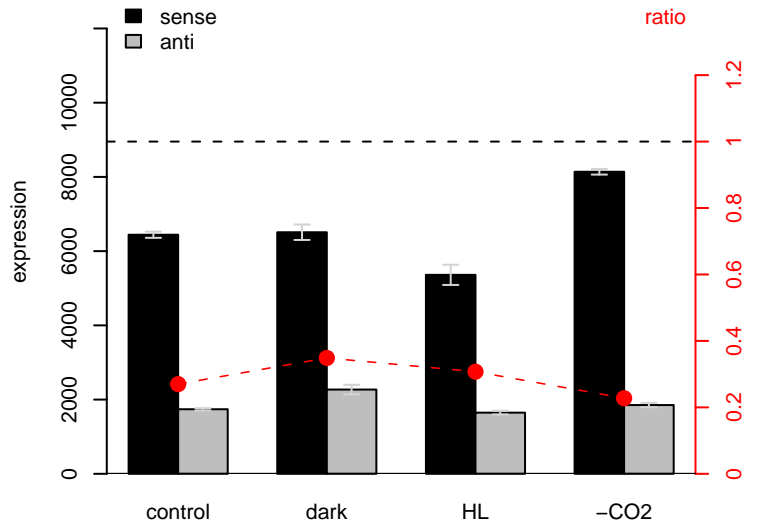
**slr0272****genome\_2176****slI0242****genome\_2180****ctaD(slr2082)****genome\_2193**

**slr2084****genome\_2196****katG(sll1987)****genome\_2199****ilvG(slr2088)****genome\_2203**

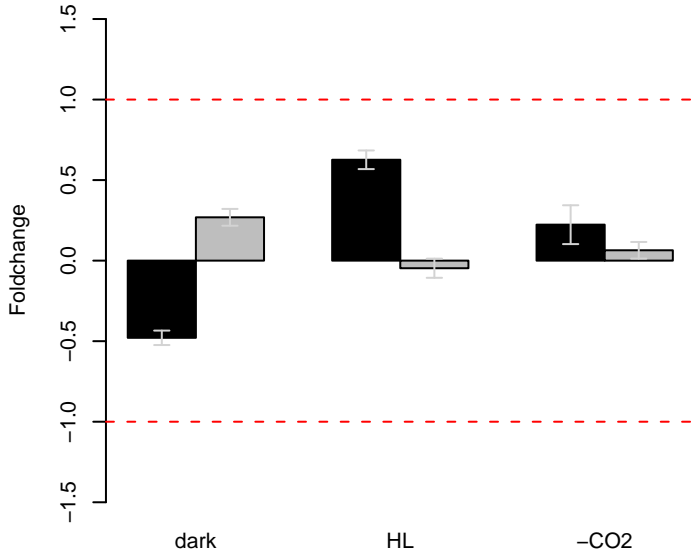
**ilvG(slr2088)**



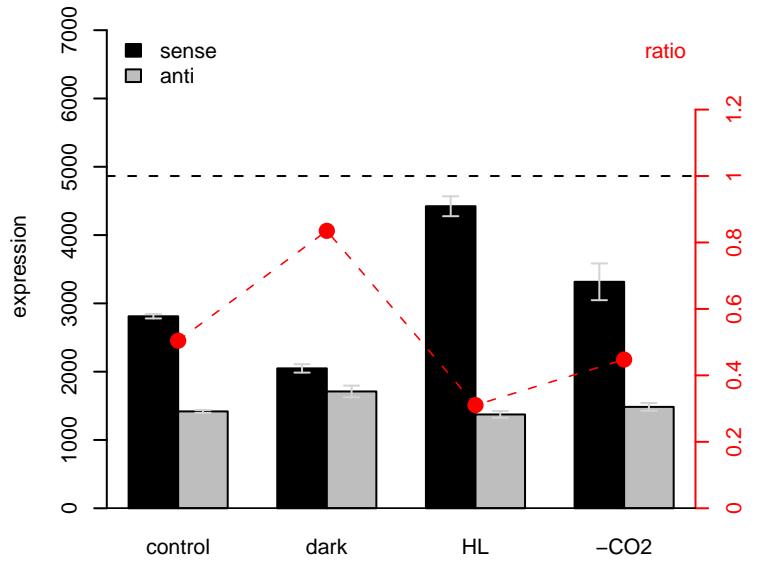
**genome\_2203**



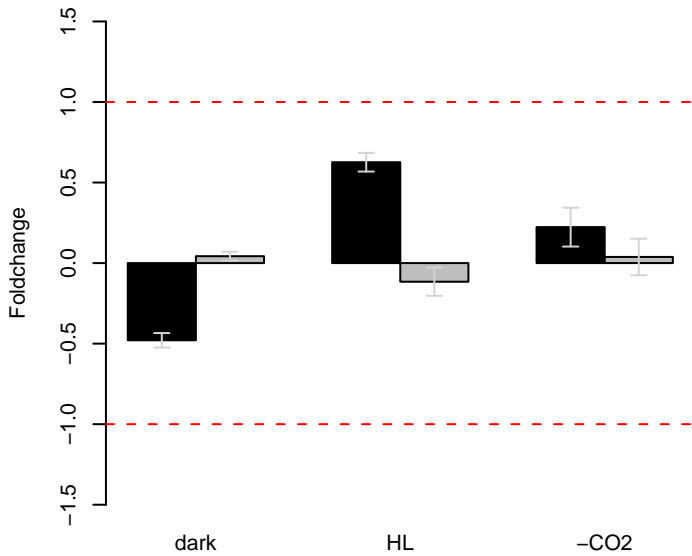
**shc(slr2089)**



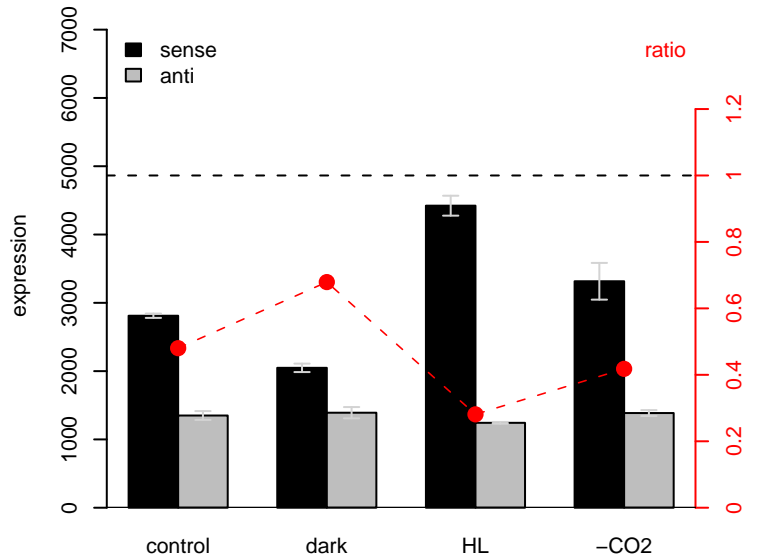
**genome\_2206**

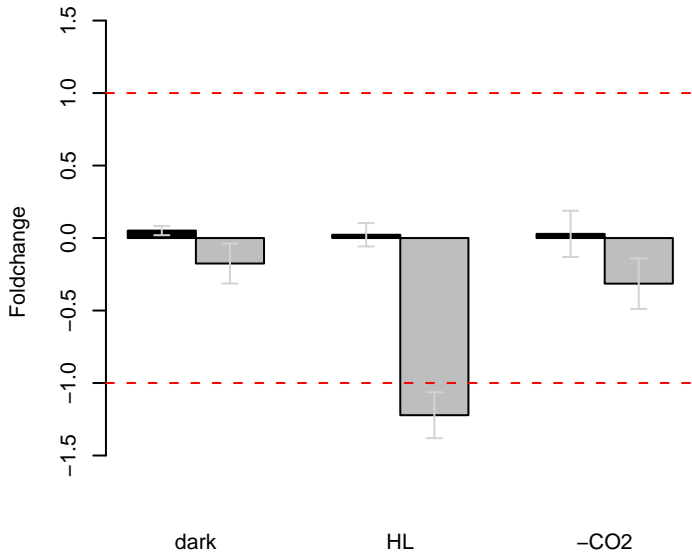
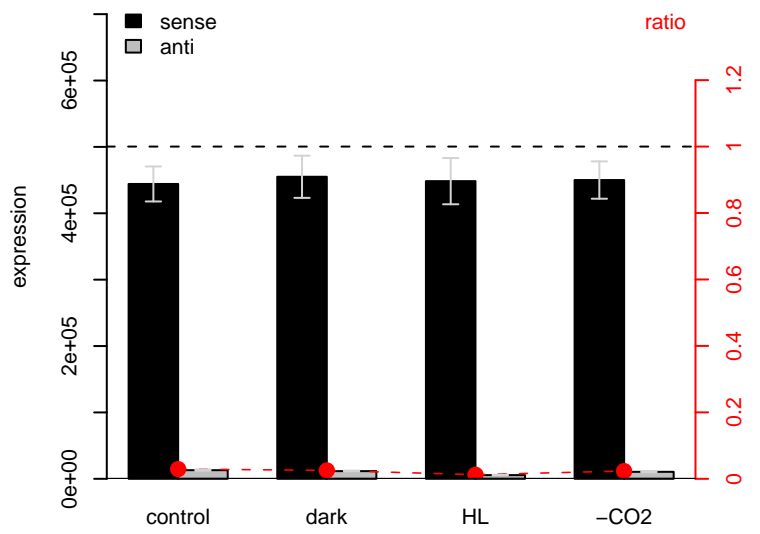
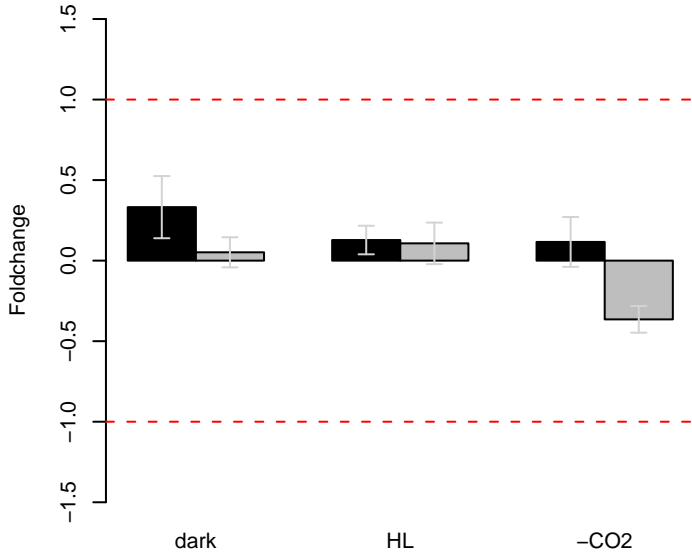
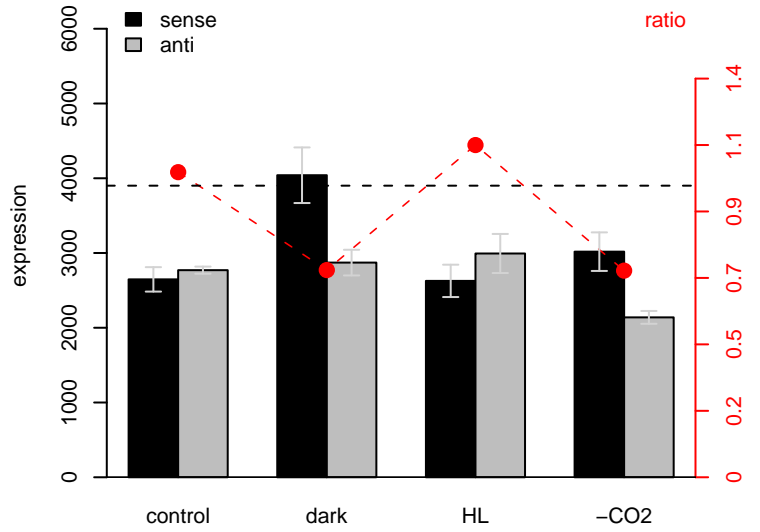
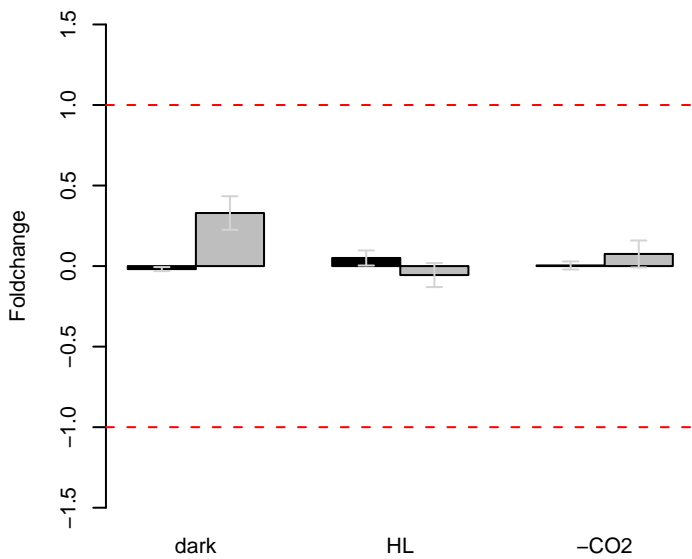
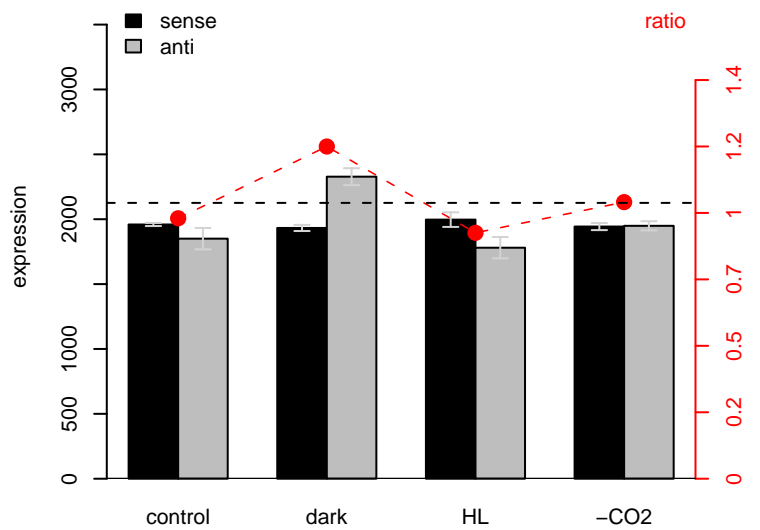


**shc(slr2089)**

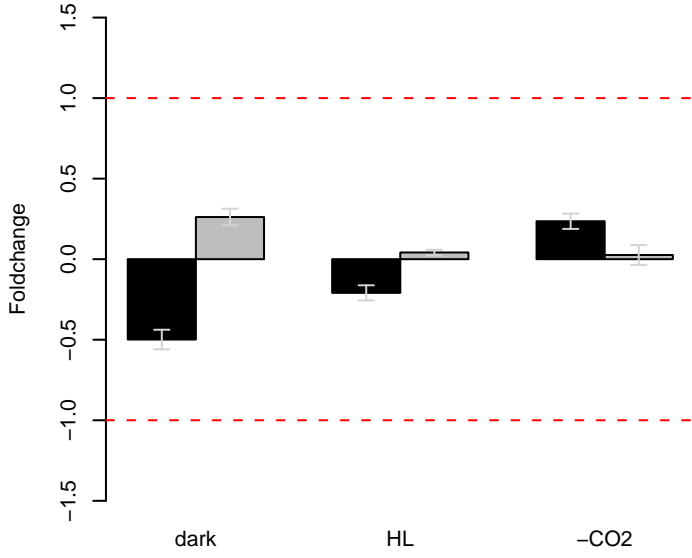


**genome\_2206**

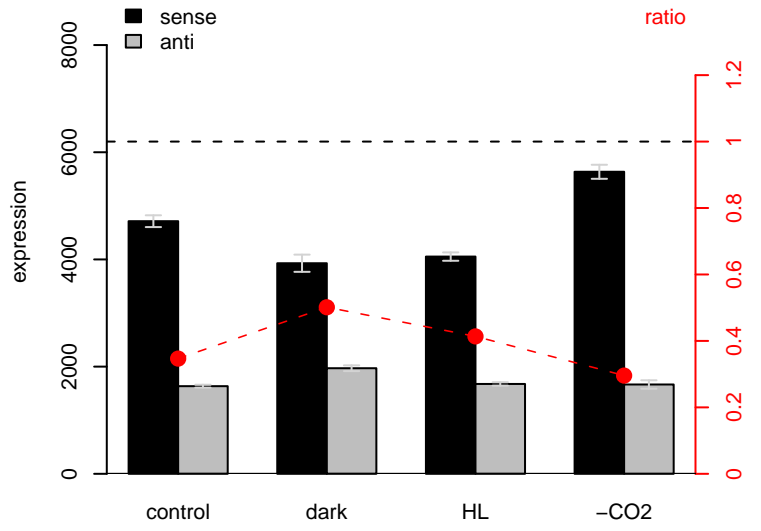


**6803t15****genome\_2209****sll1985****genome\_2213****slr0254****genome\_221**

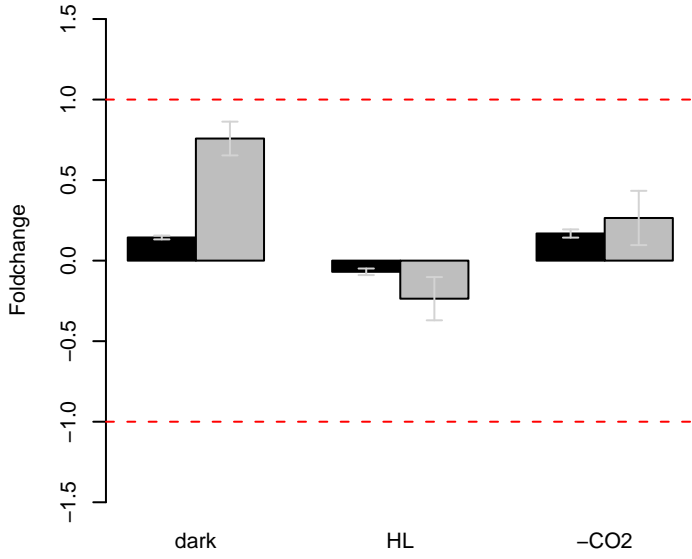
**glnN(slr2097)**



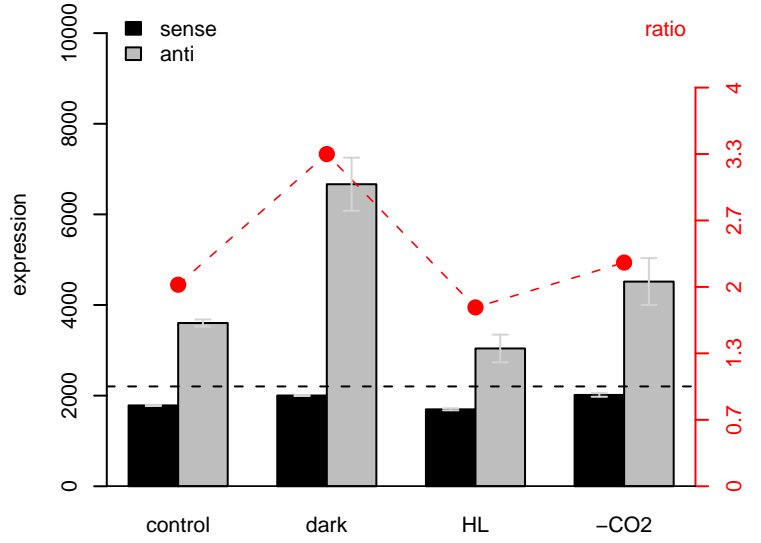
**genome\_2233**



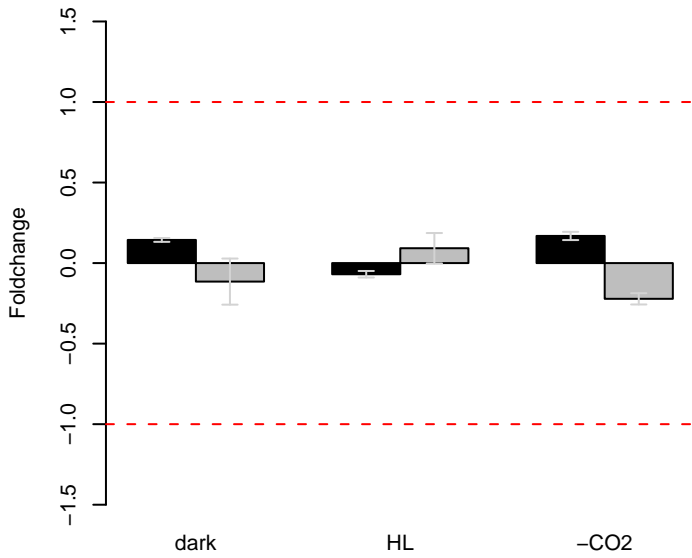
**slr2098**



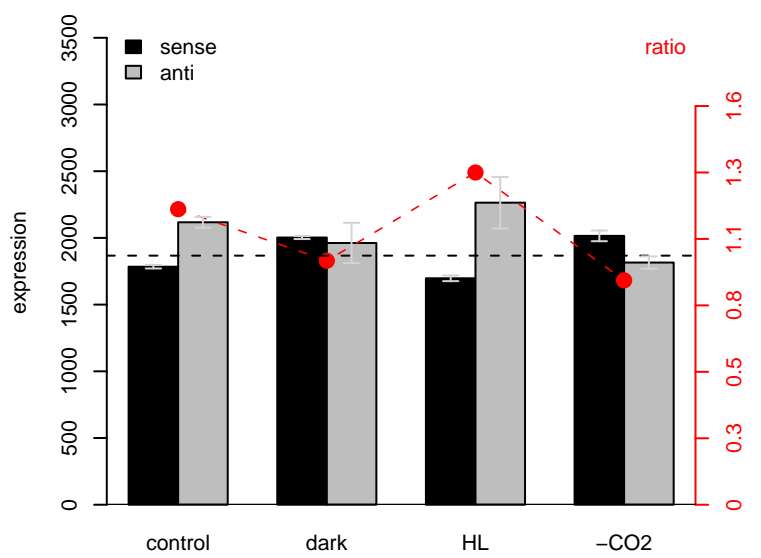
**genome\_2235**

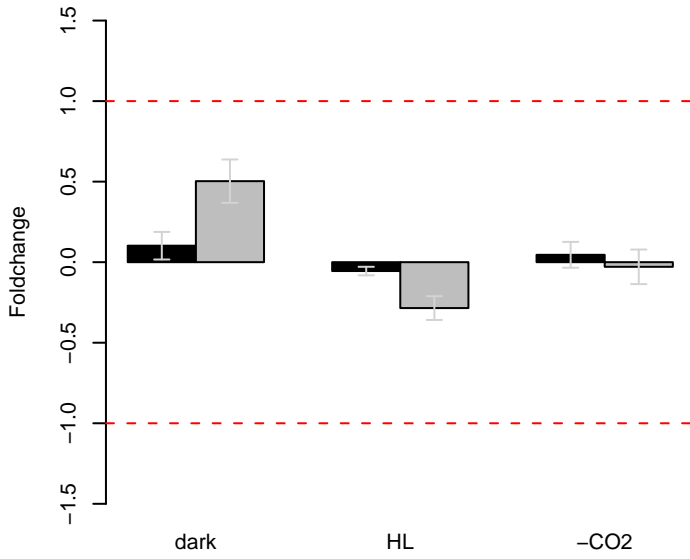
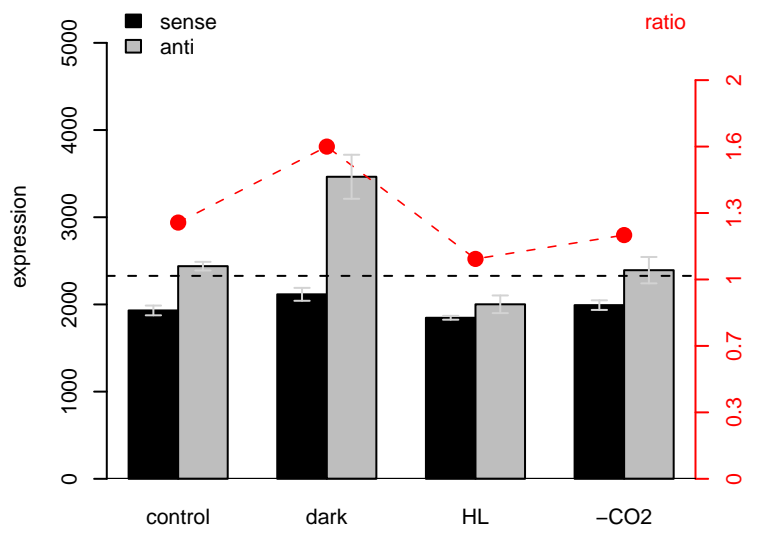
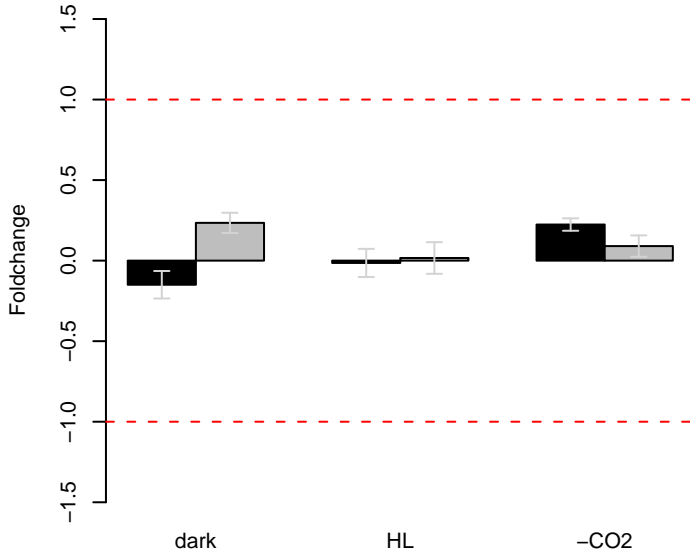
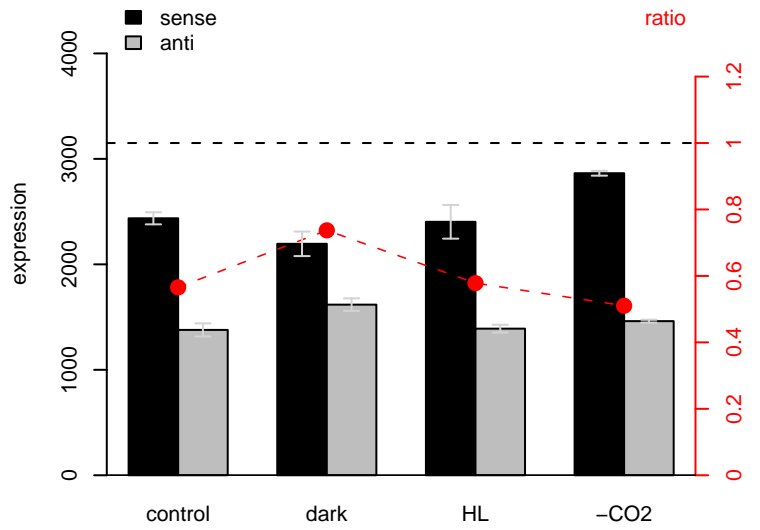
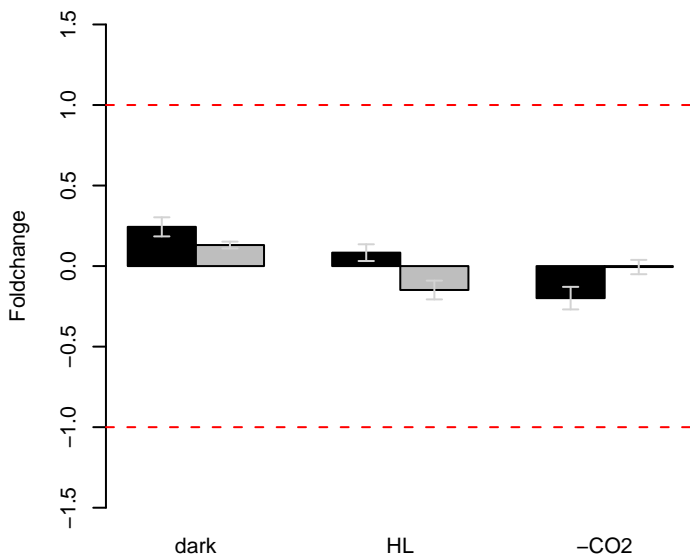
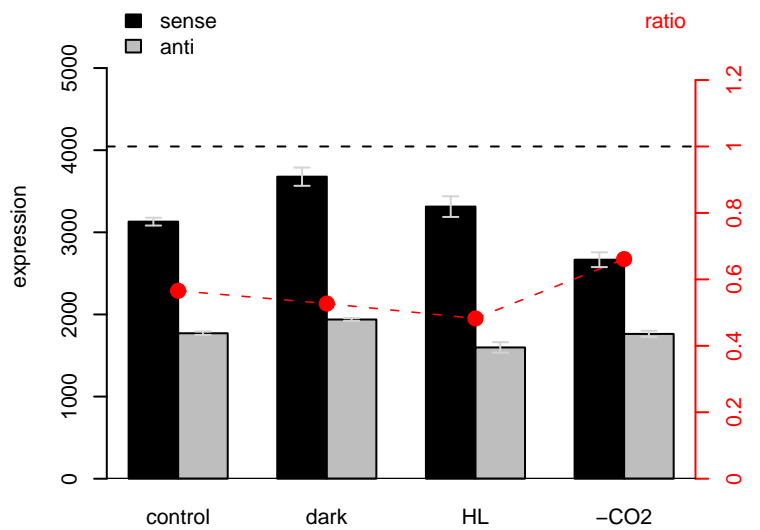


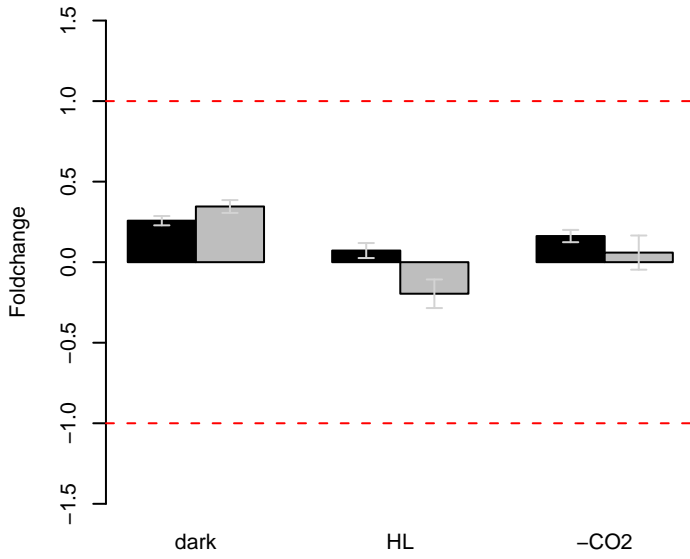
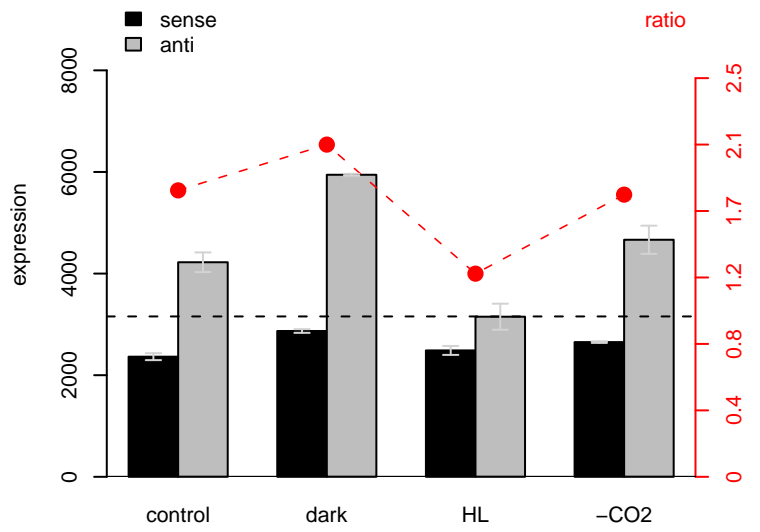
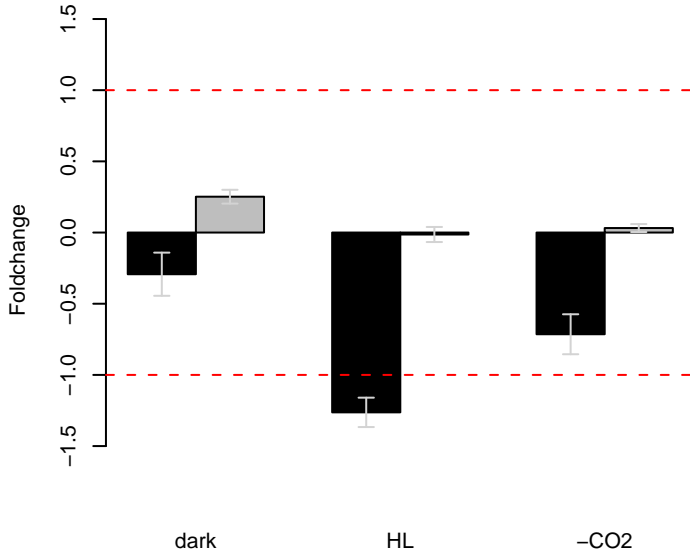
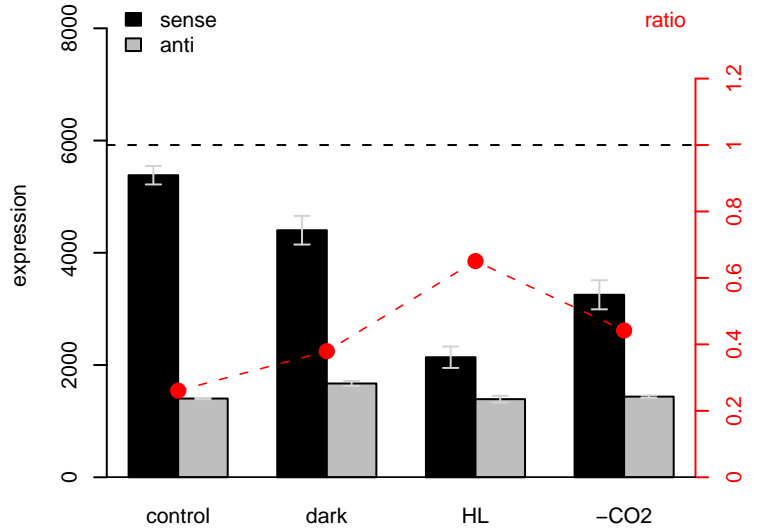
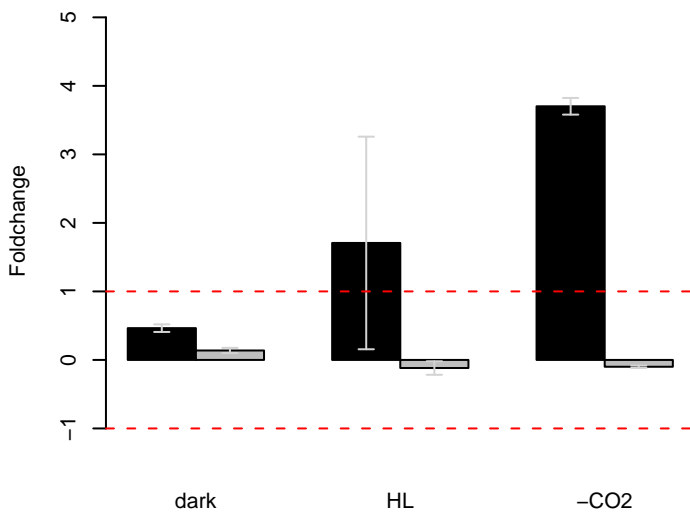
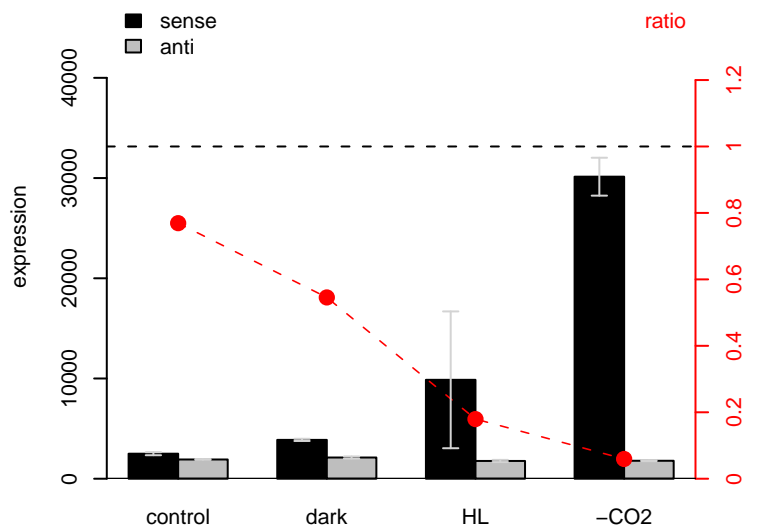
**slr2098**



**genome\_2235**

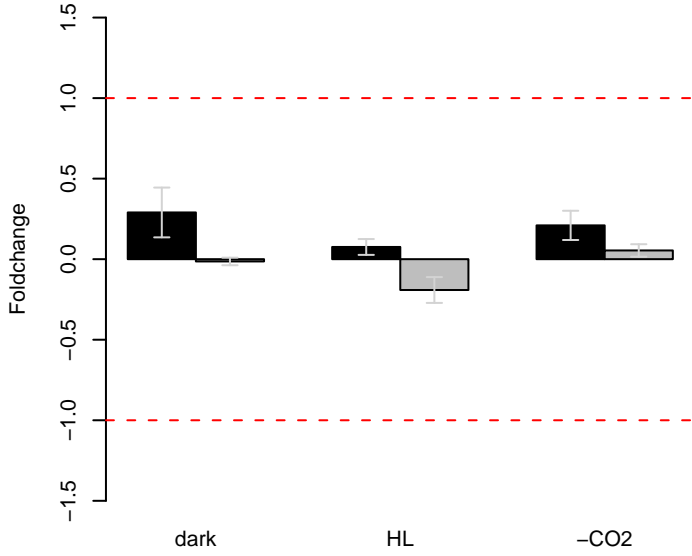


**slr2099****genome\_2238****ftsY(slr2102)****genome\_2244****sll1973****genome\_2251**

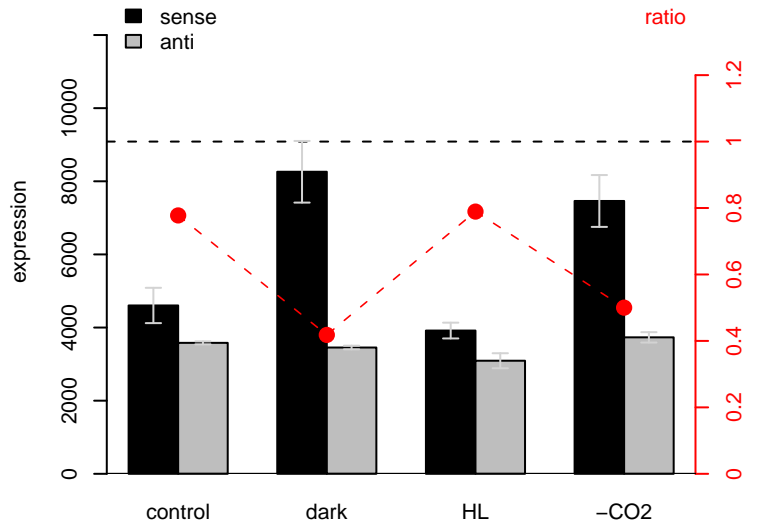
**slr2105****genome\_2253****sli1429****genome\_2256****sli0219****genome\_225**



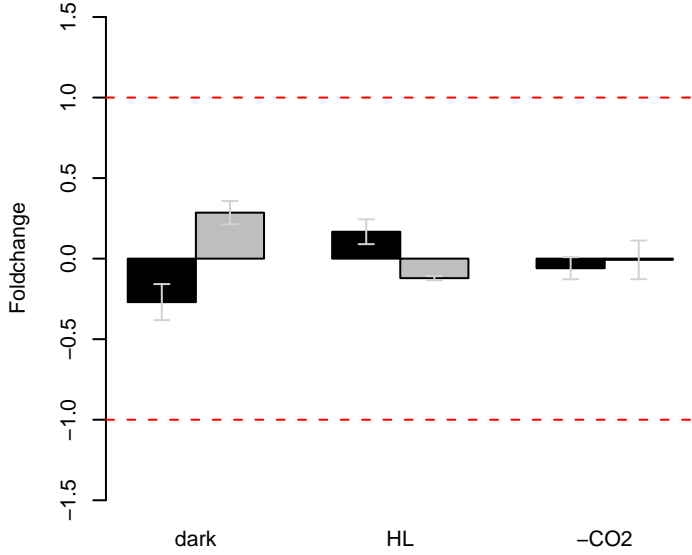
**sll1424**



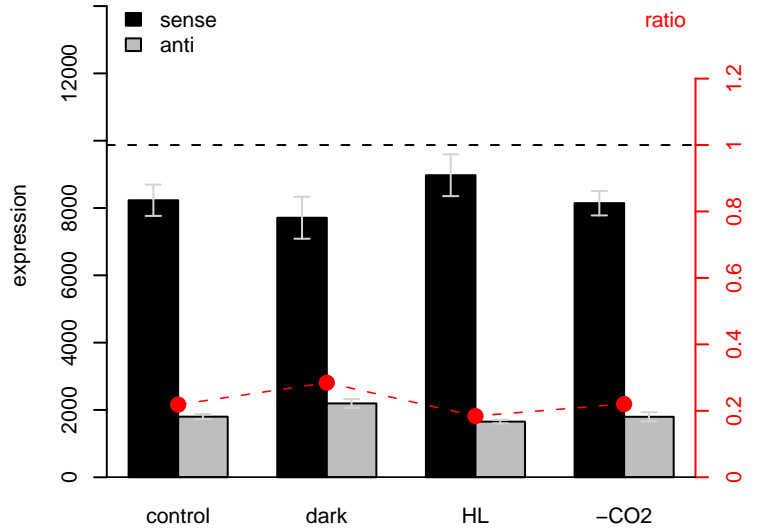
**genome\_2269**



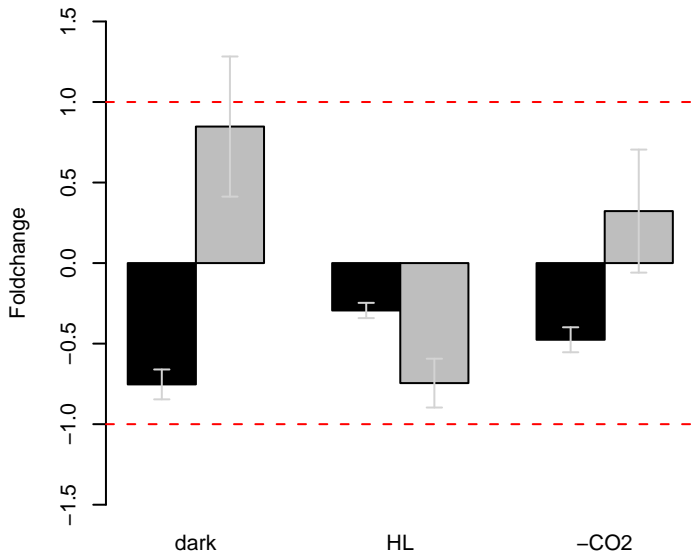
**ntcA(sll1423)**



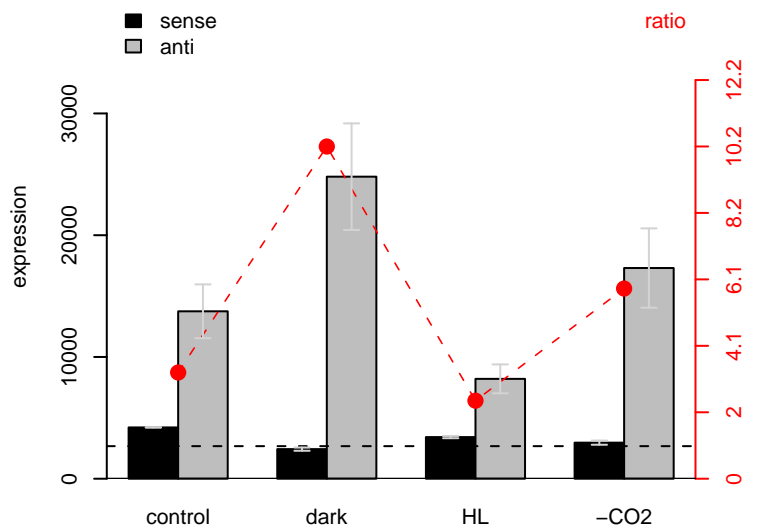
**genome\_2271**



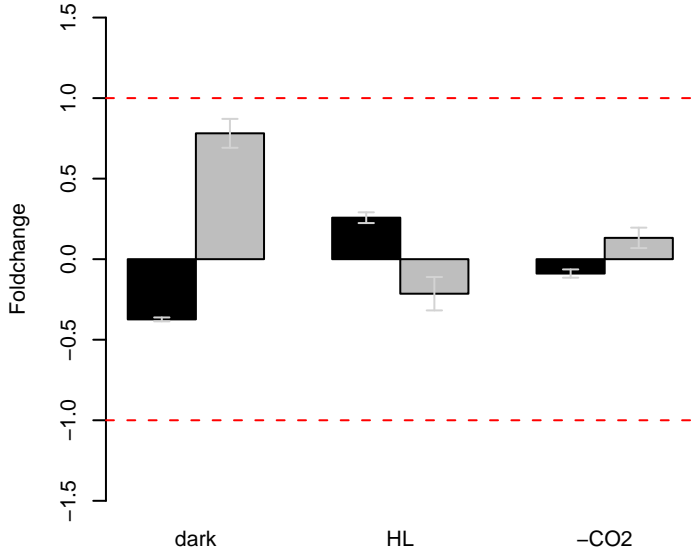
**sll1506**



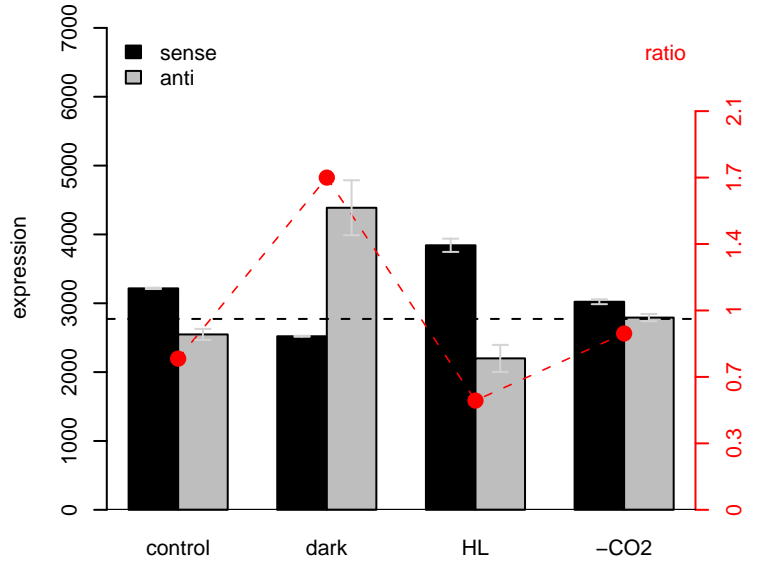
**genome\_2274**



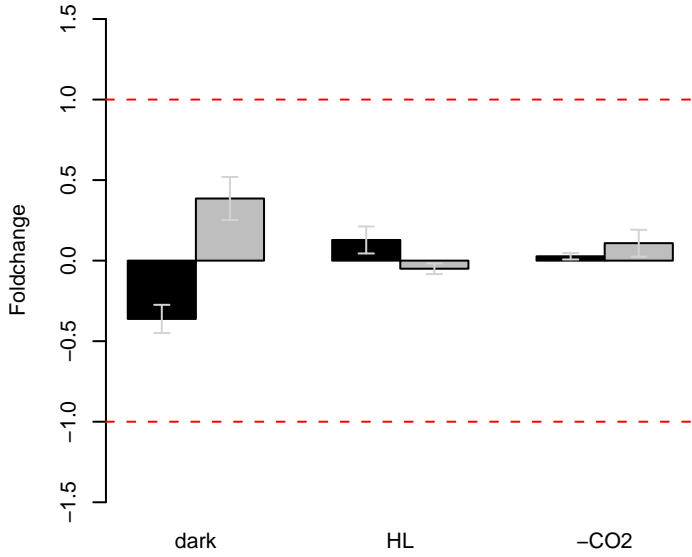
**slr1508**



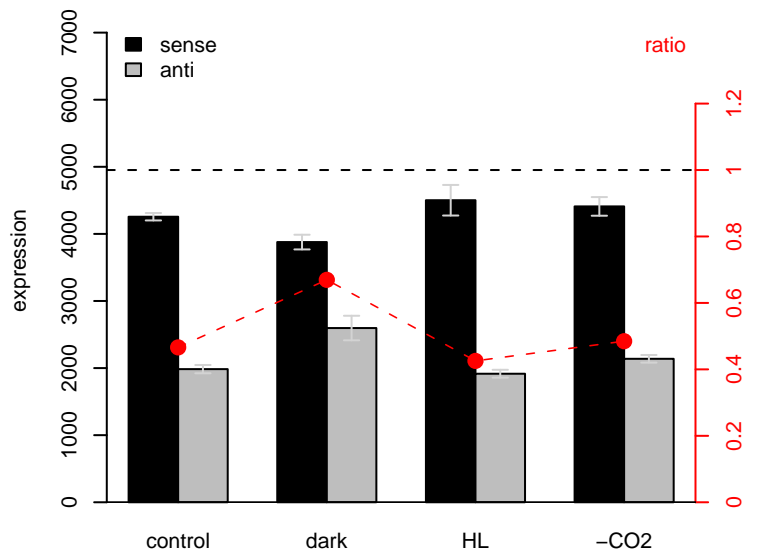
**genome\_2278**



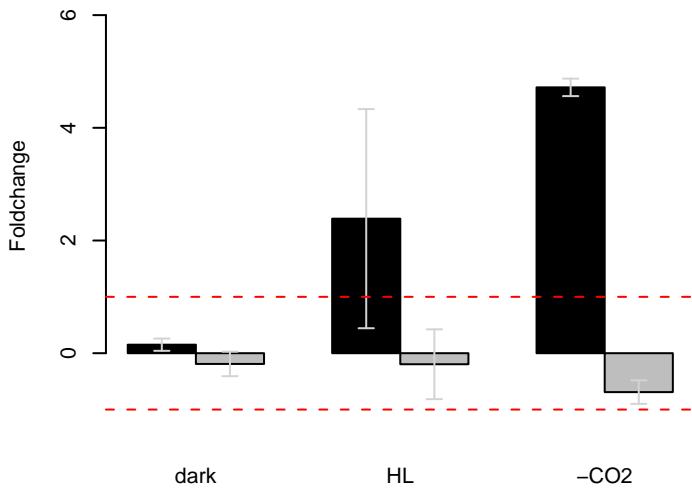
**plsX(slr1510)**



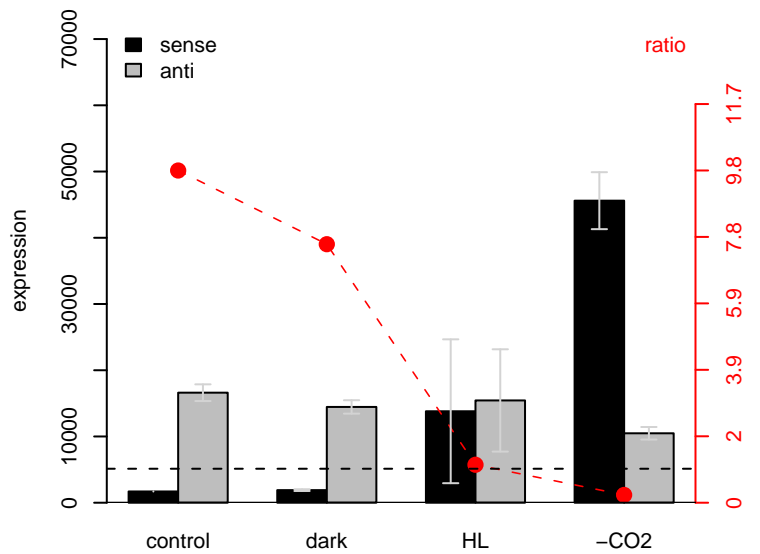
**genome\_2282**

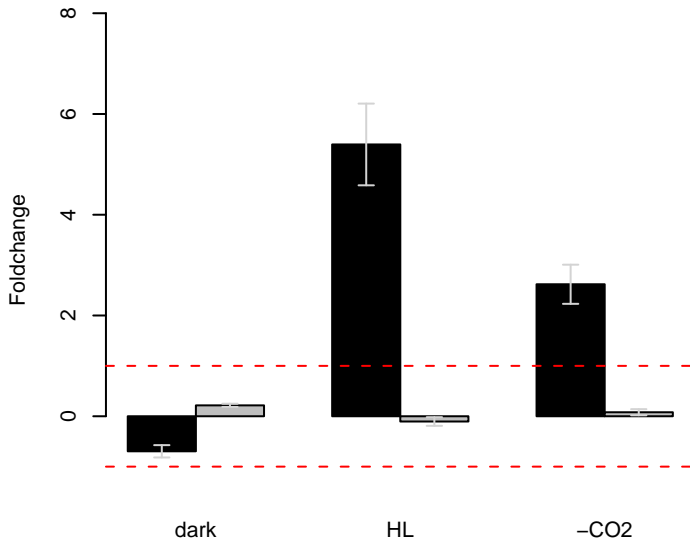
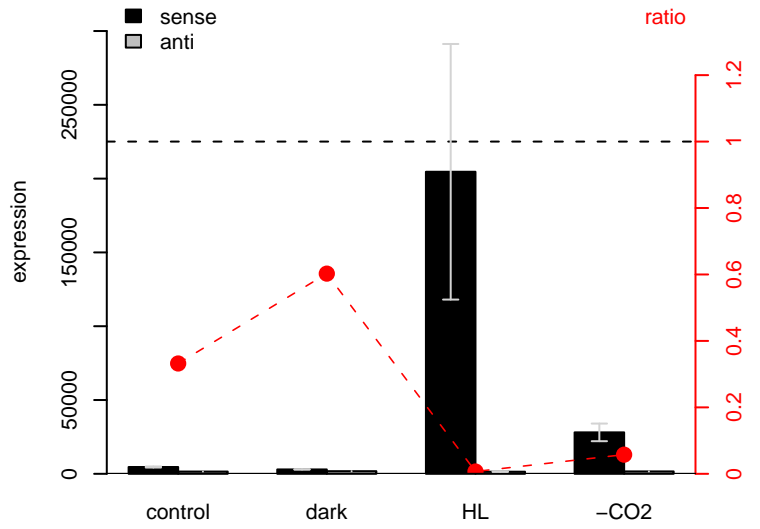
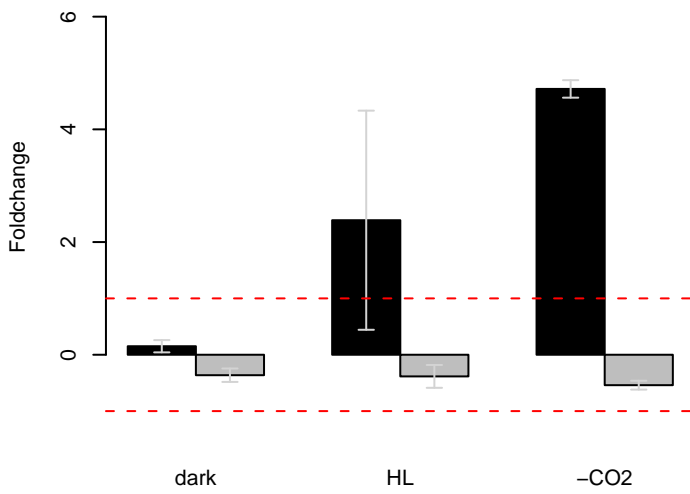
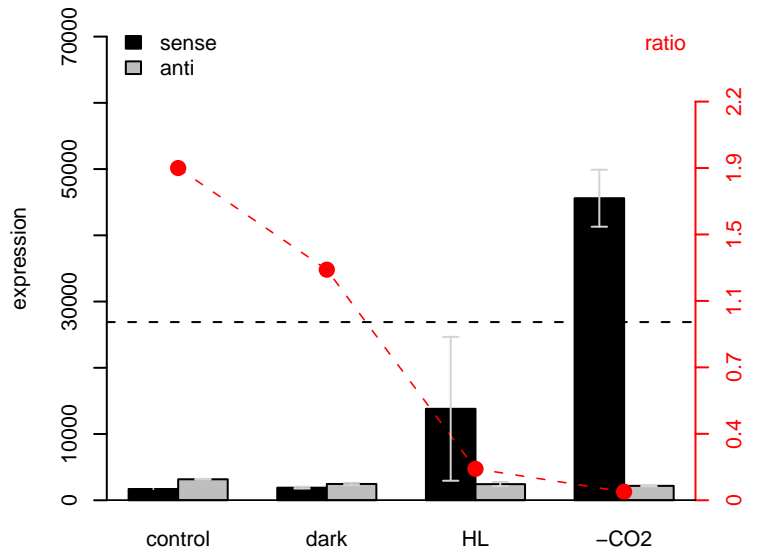
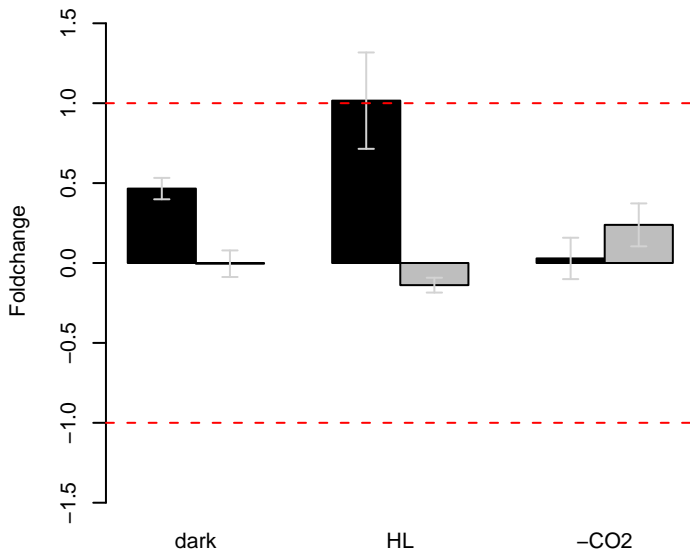
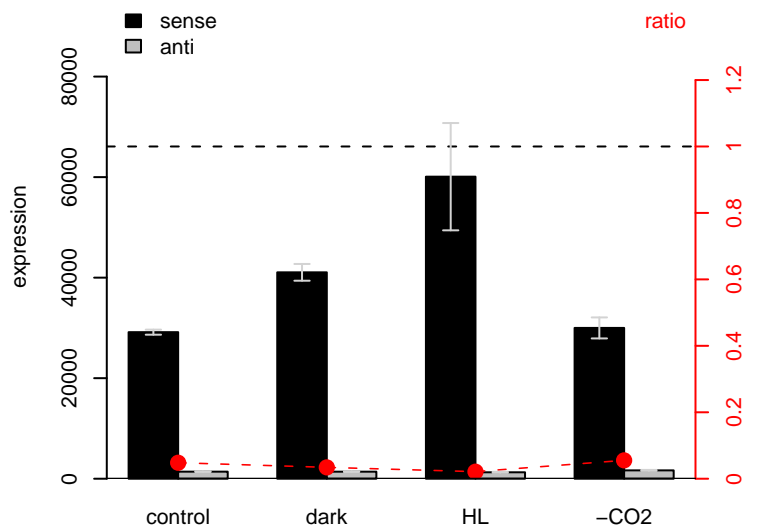


**slI0217**

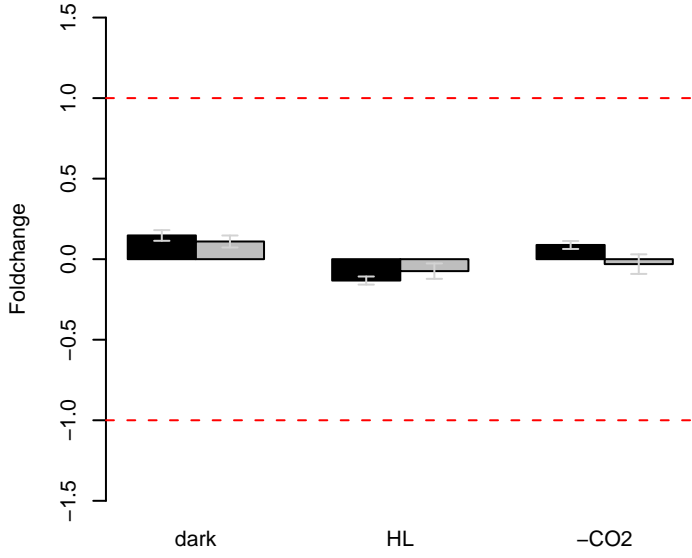


**genome\_228**

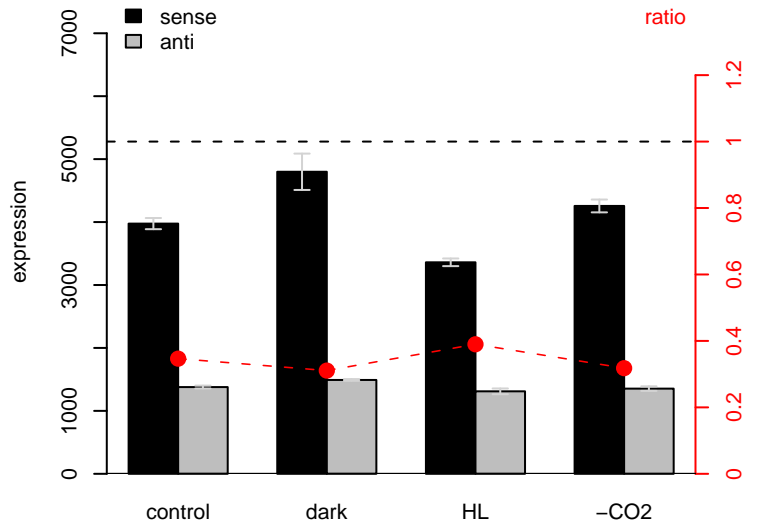


**slr1512****genome\_2289****slI0217****genome\_228****sodB(slr1516)****genome\_2299**

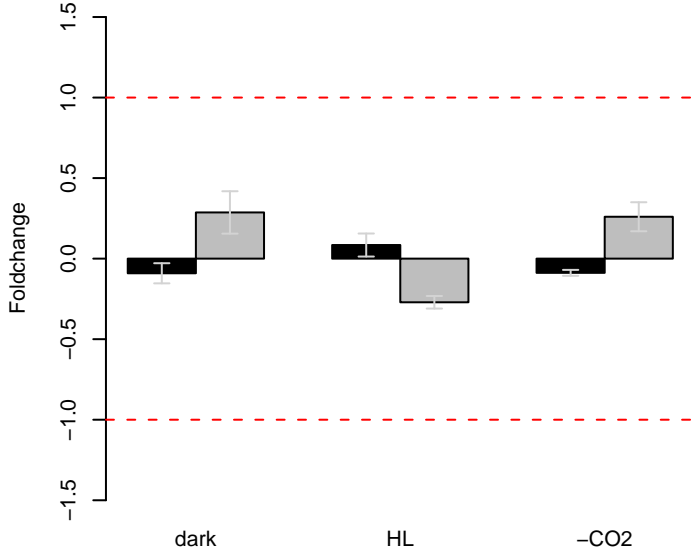
**hglK(slr1519)**



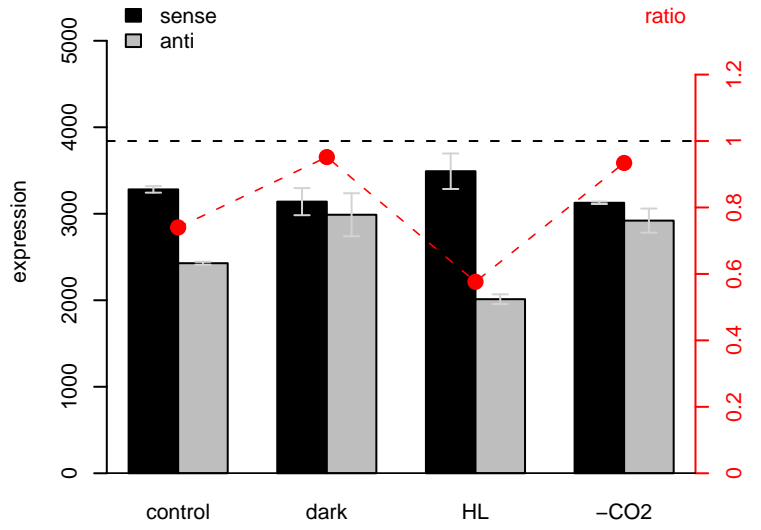
**genome\_2305**



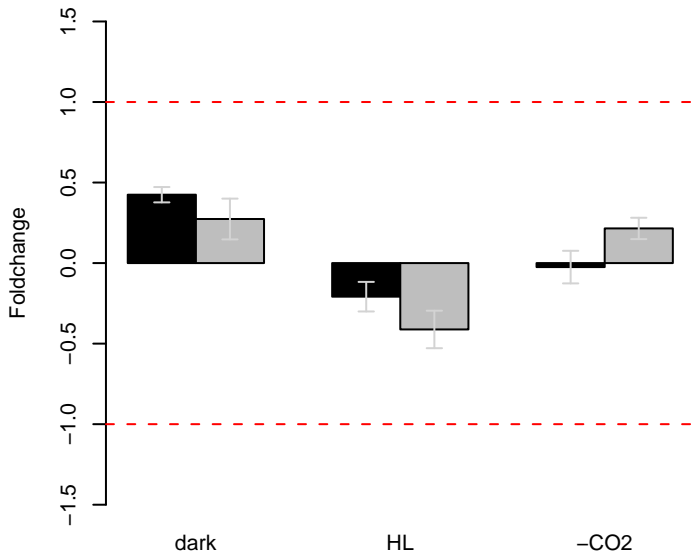
**lap(sll2001)**



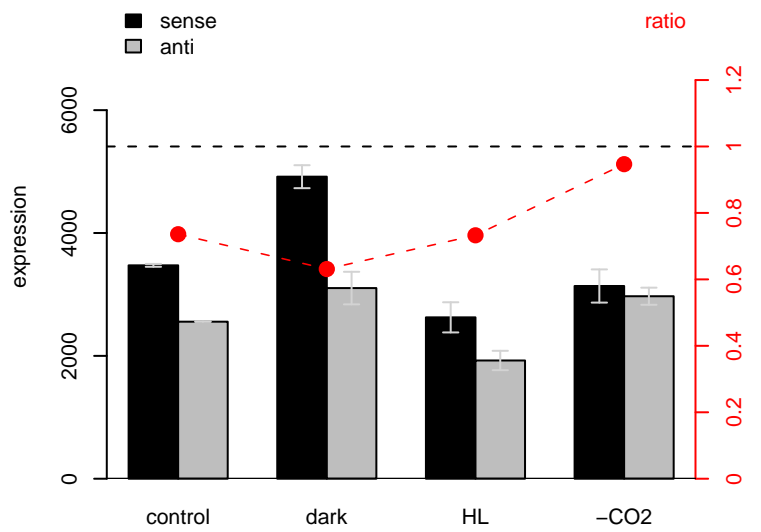
**genome\_2318**

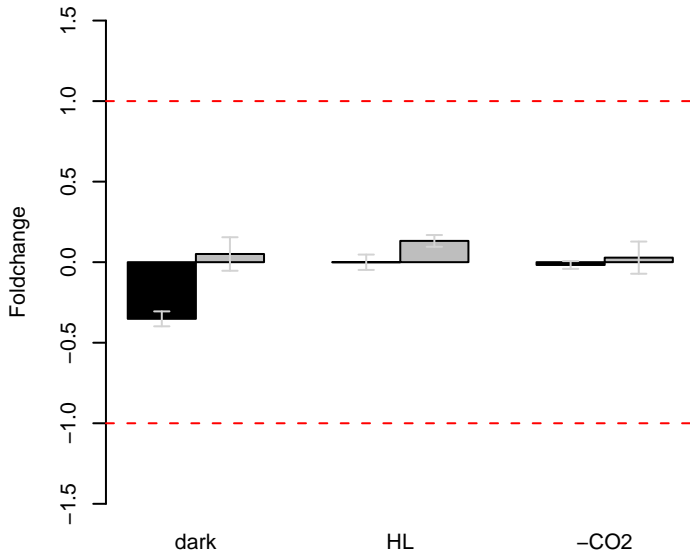
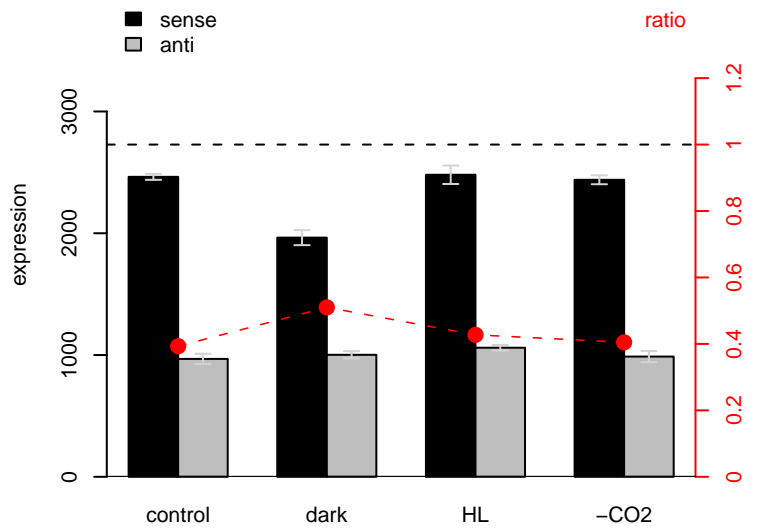
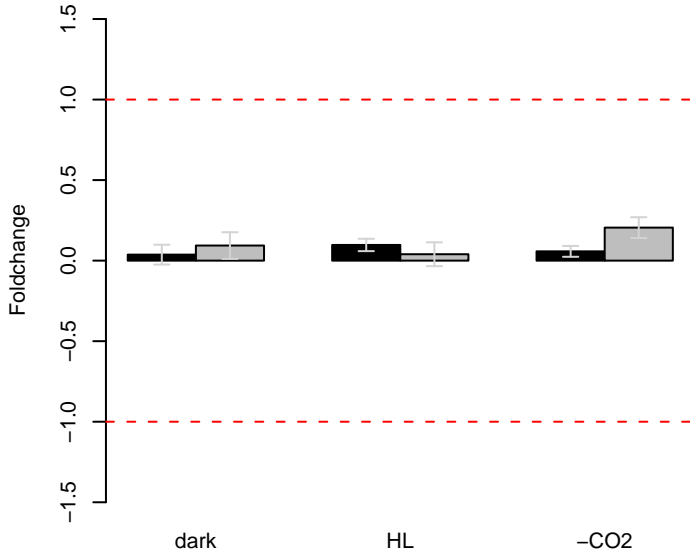
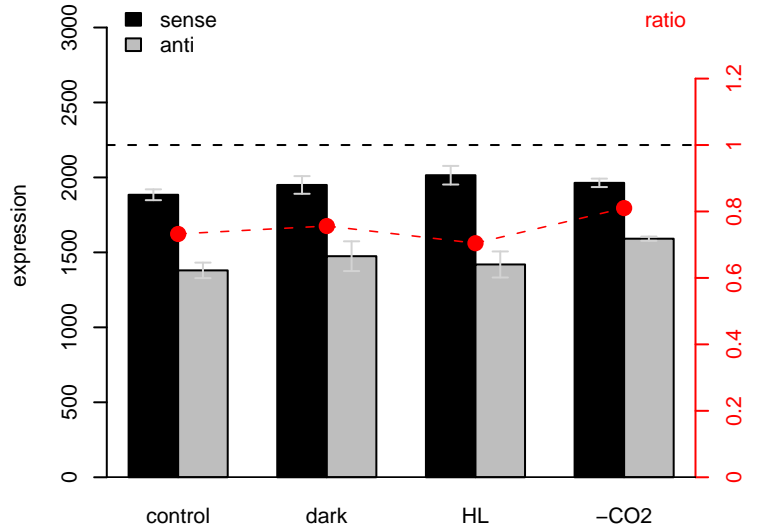
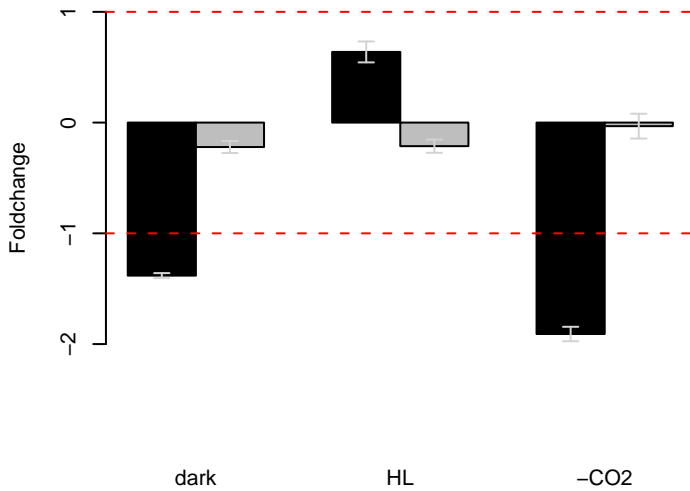
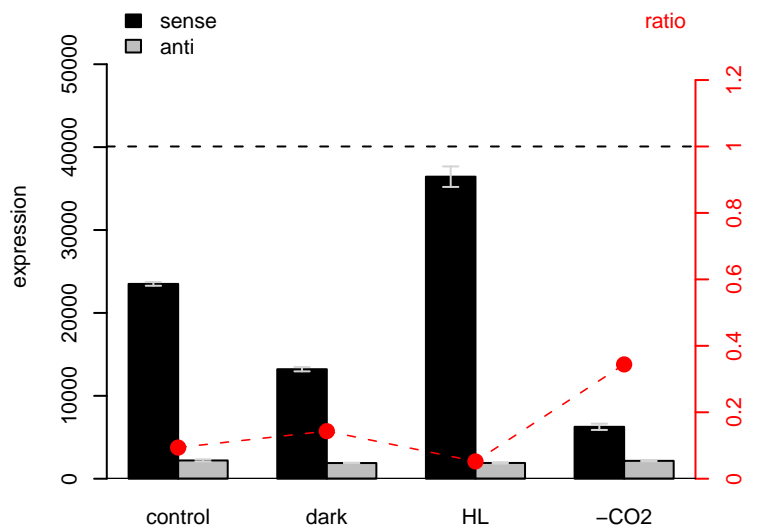


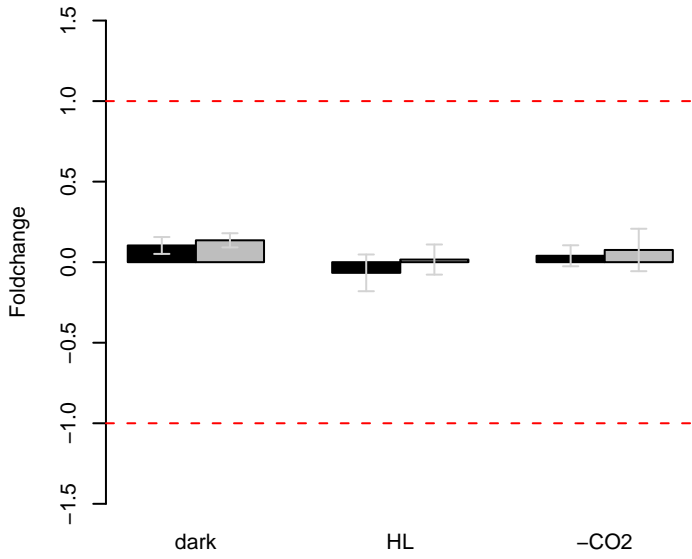
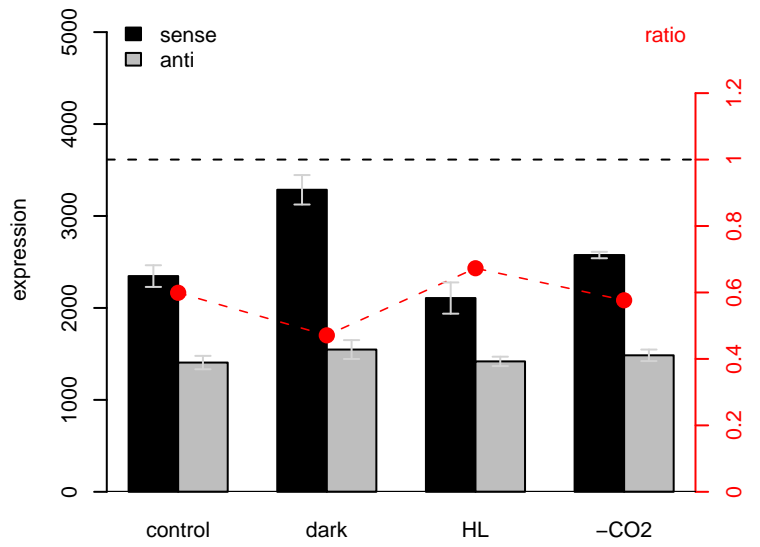
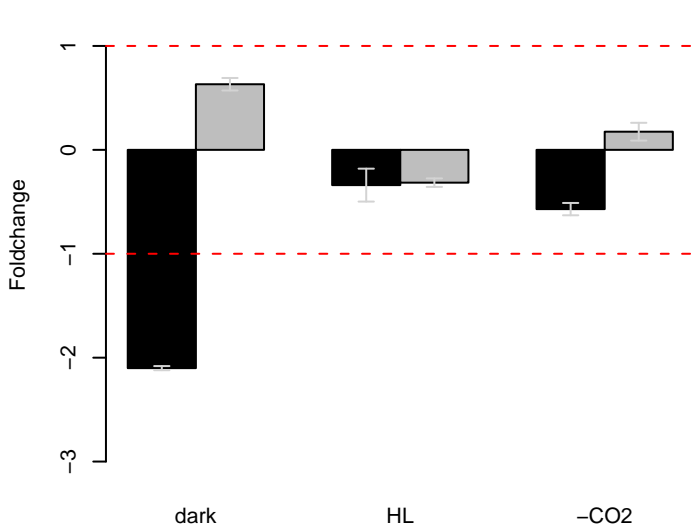
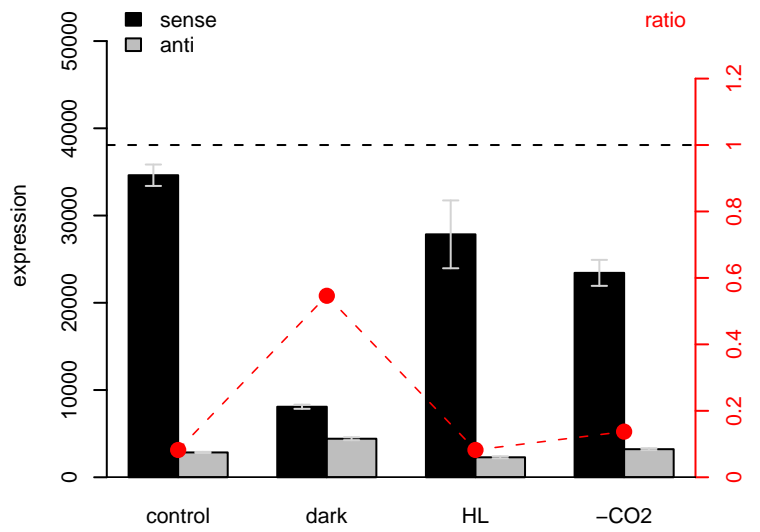
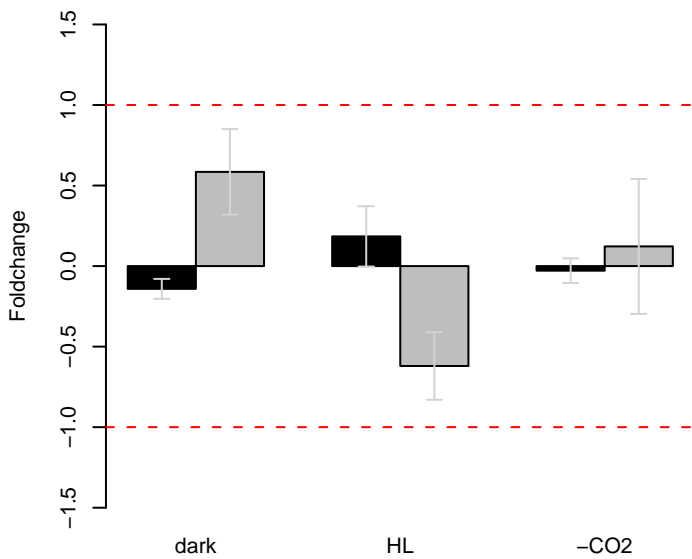
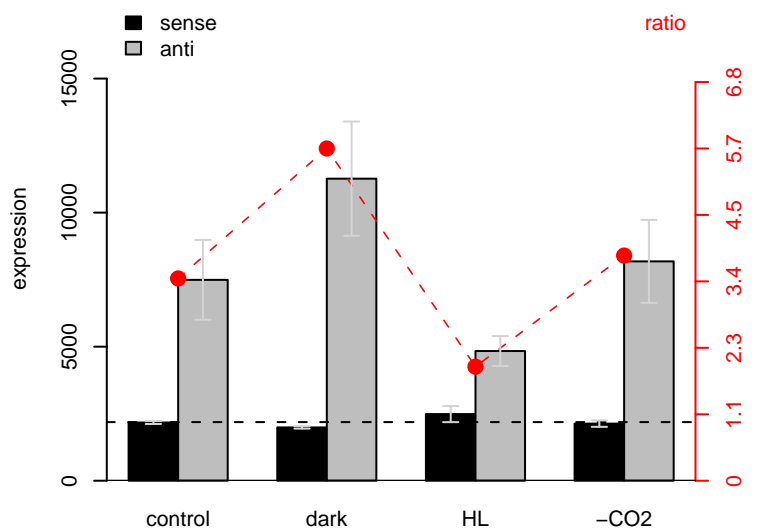
**spsC(slr2114)**

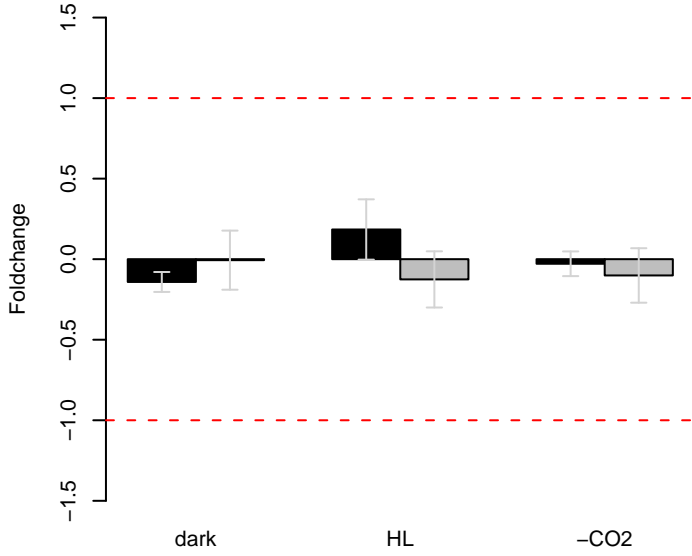
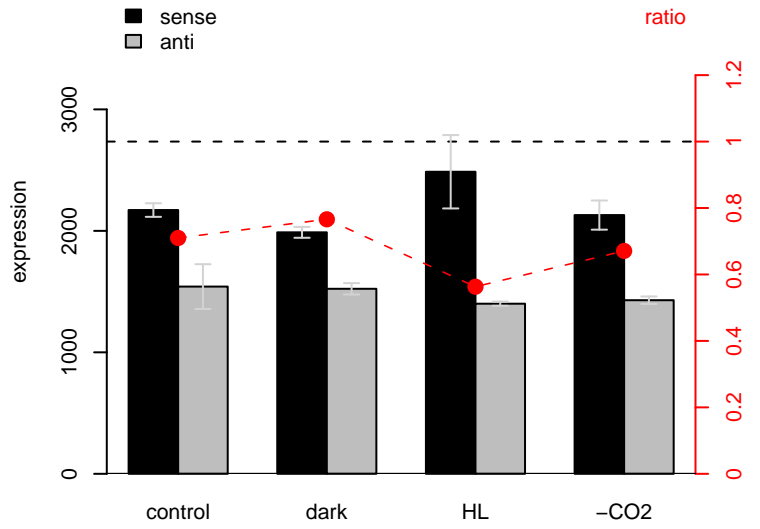
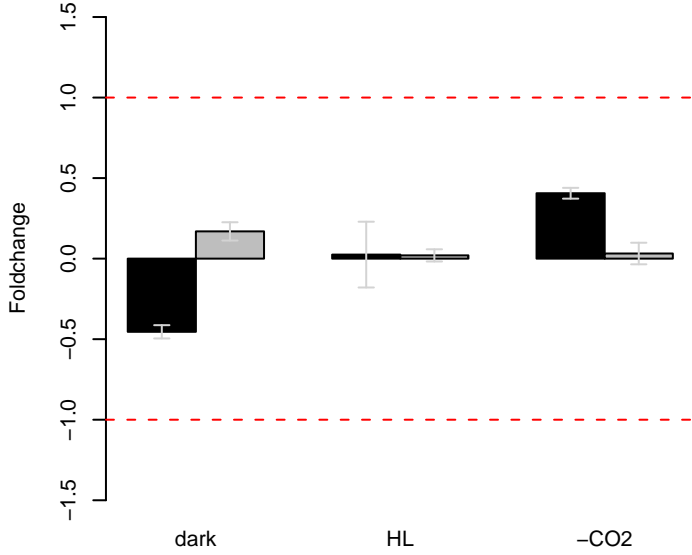
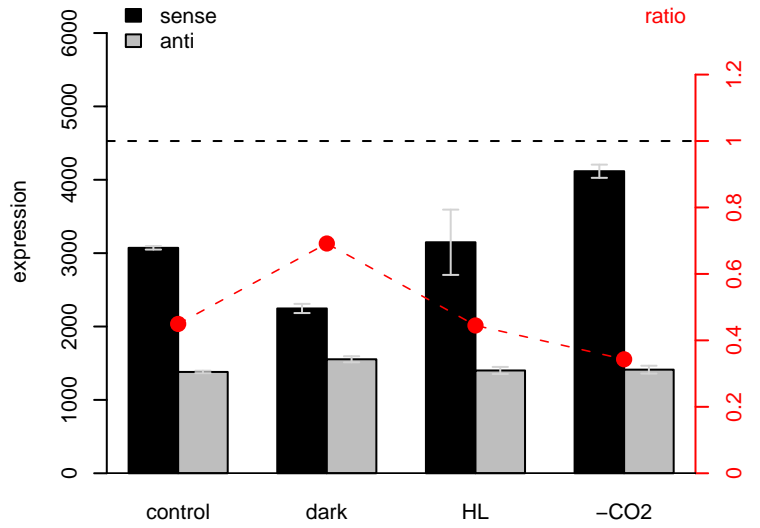
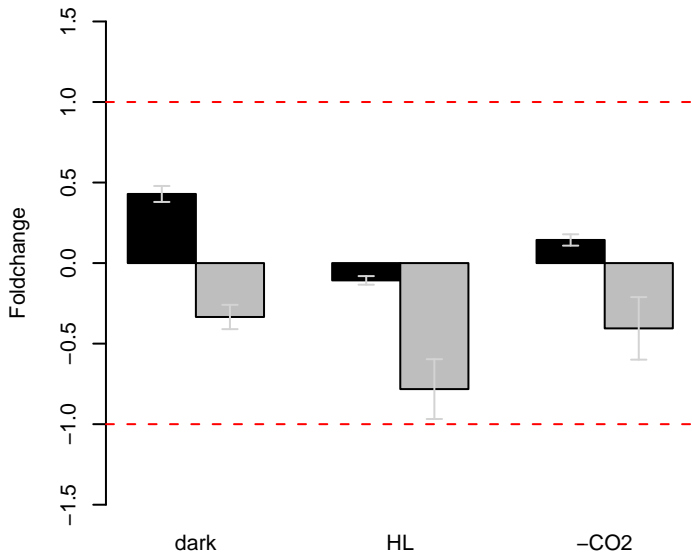
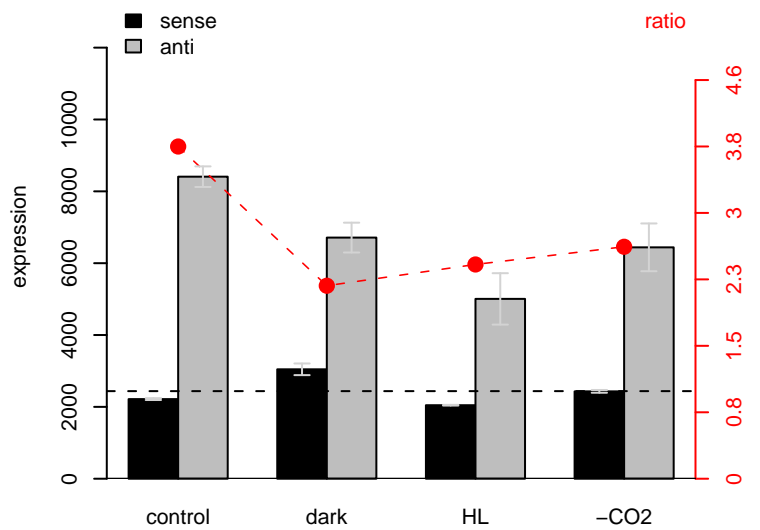


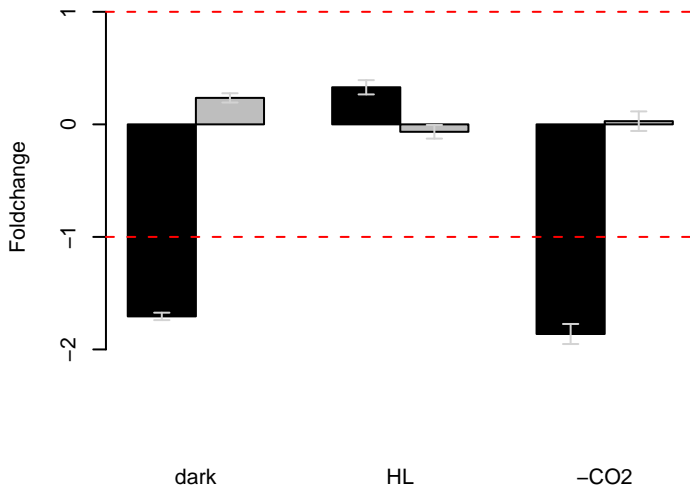
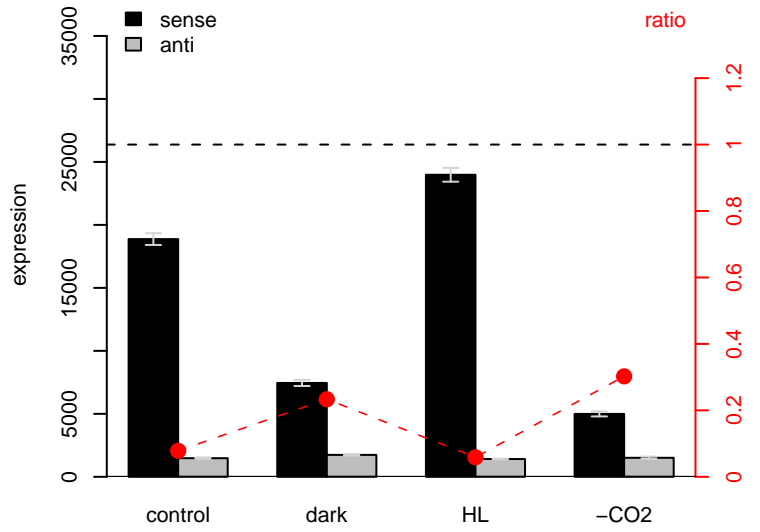
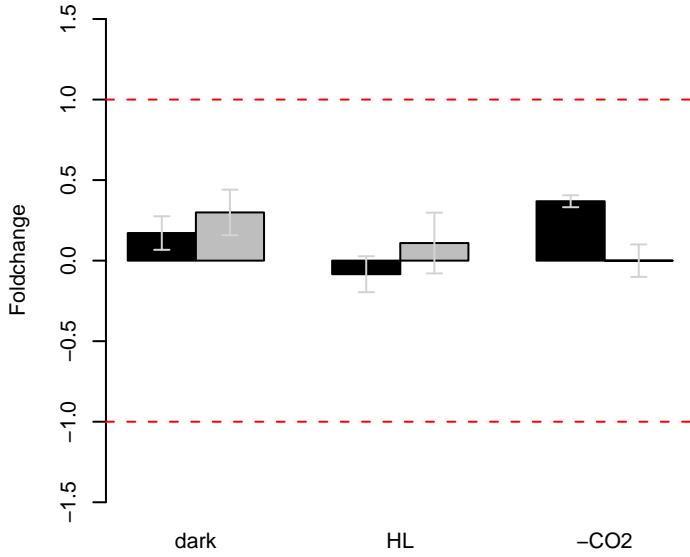
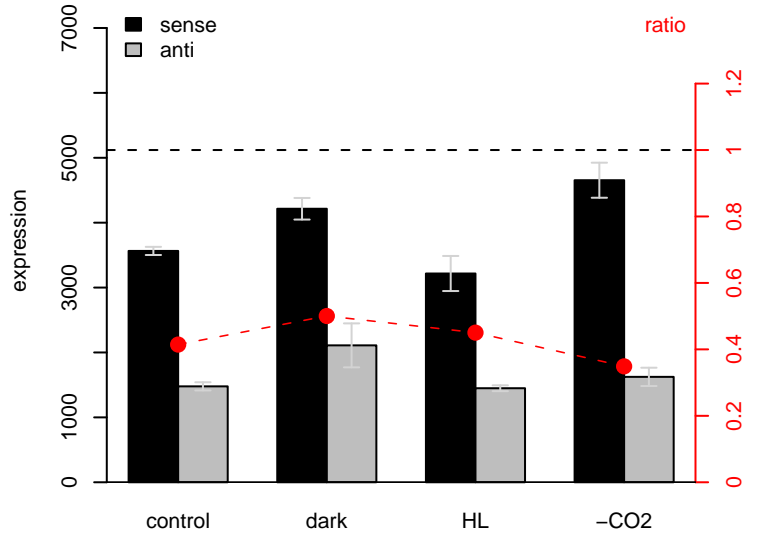
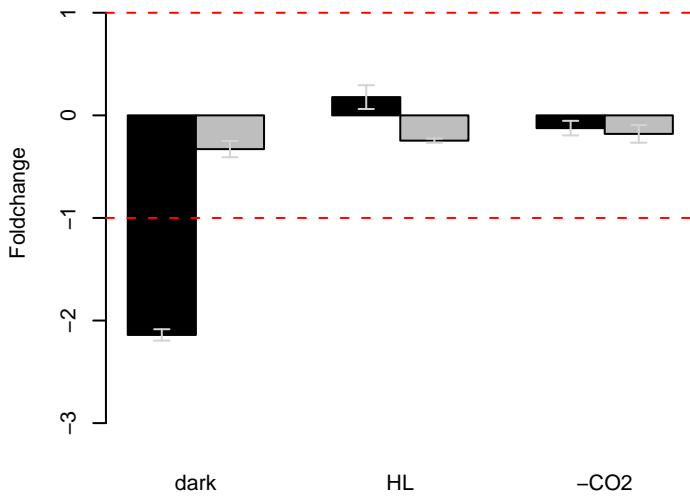
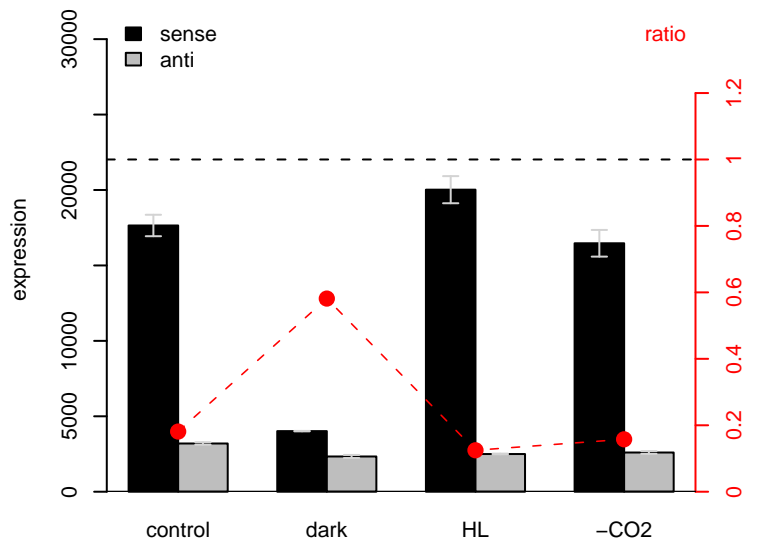
**genome\_2339**



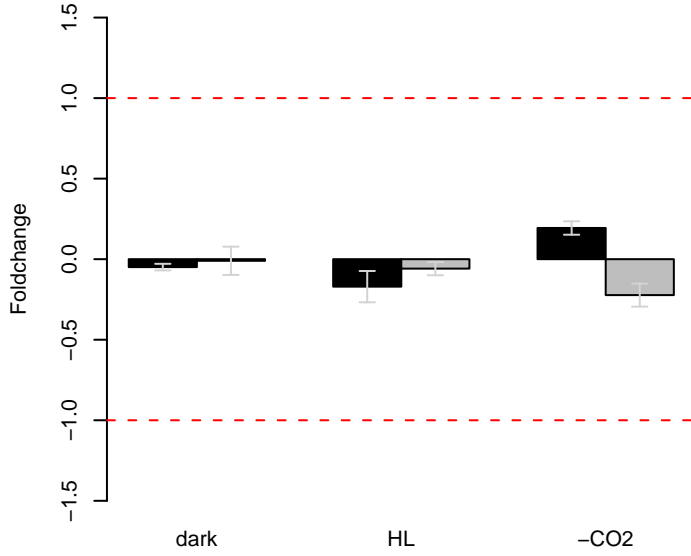
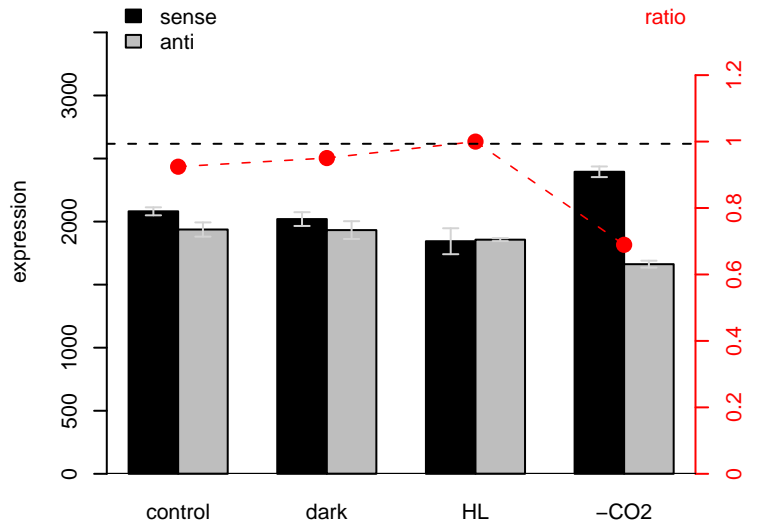
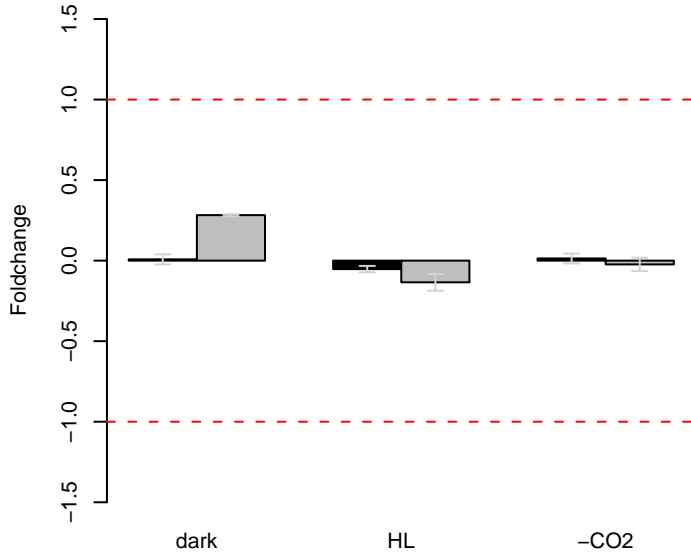
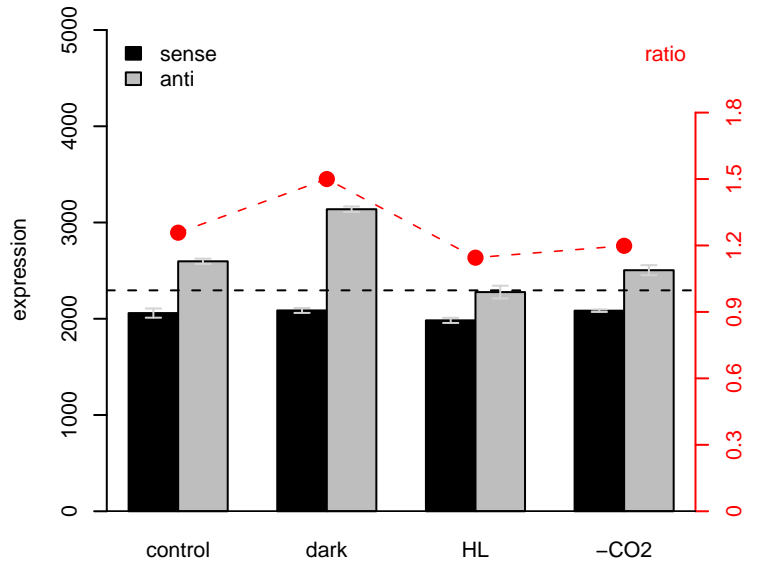
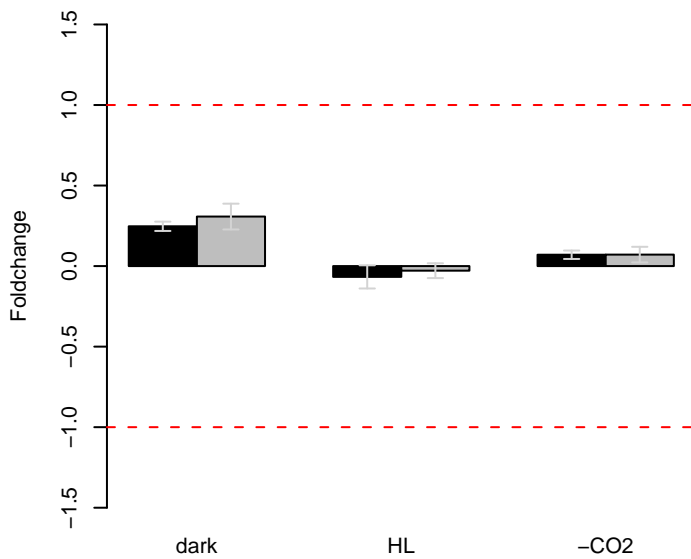
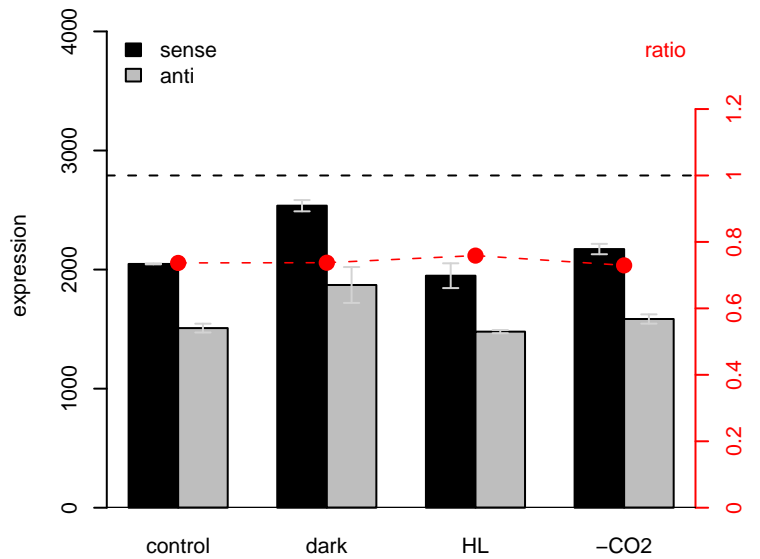
**slr2125****genome\_2352****slr2126****genome\_2354****atpC(sll1327)****genome\_235**

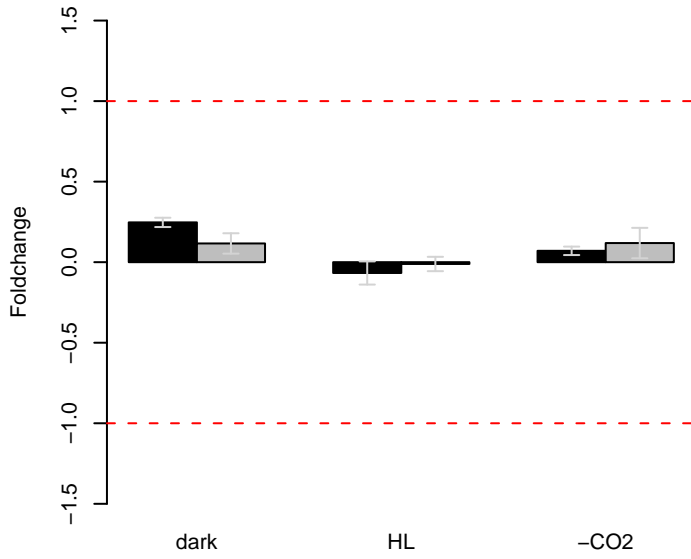
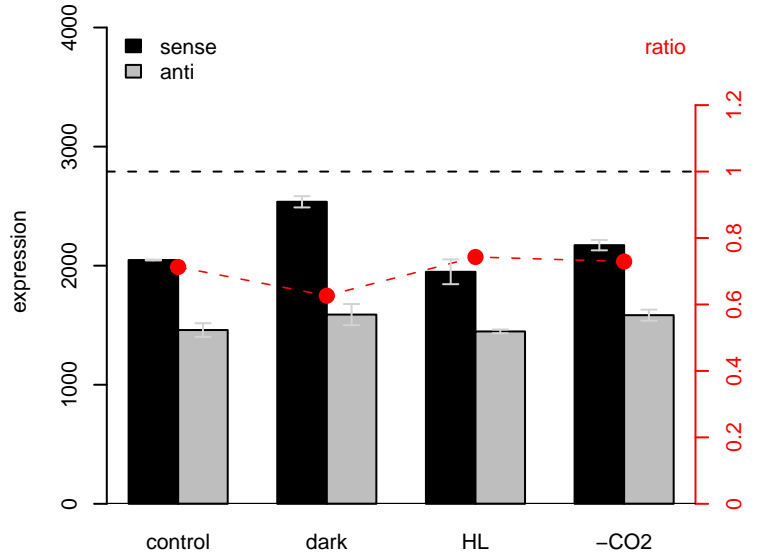
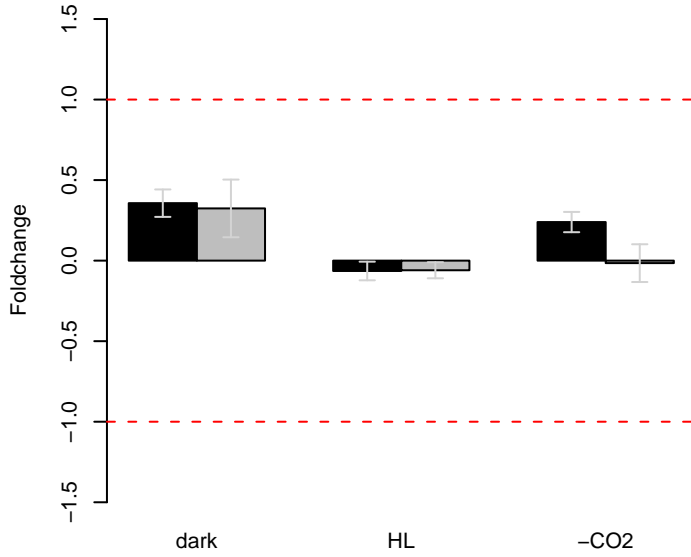
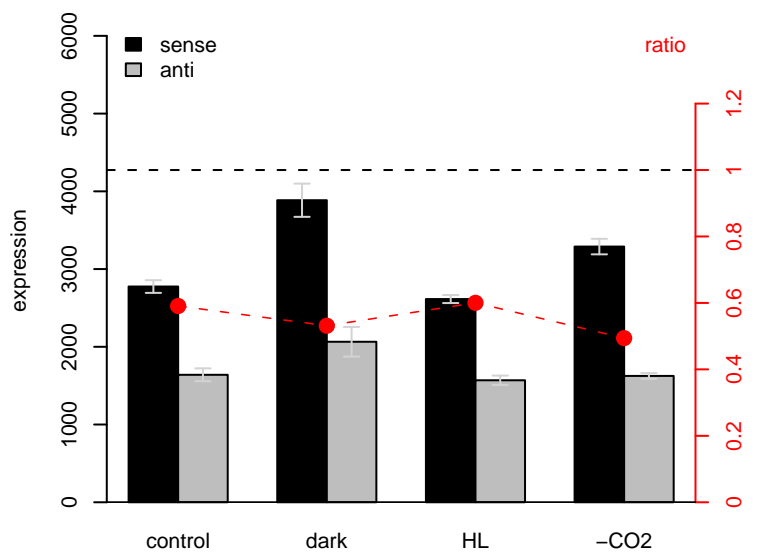
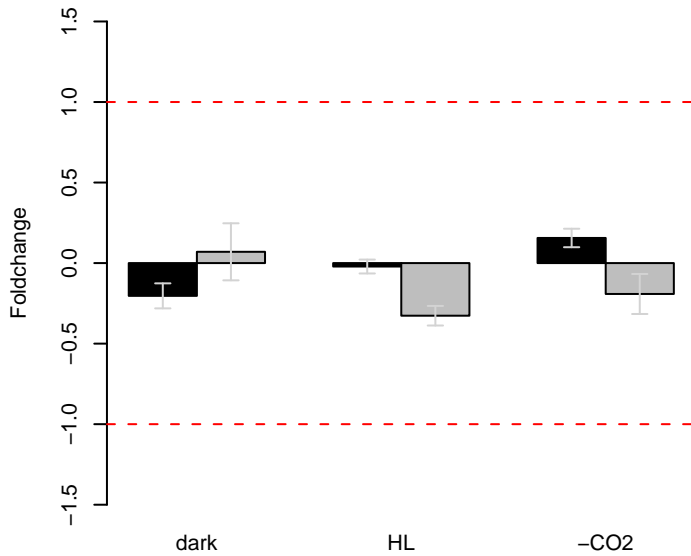
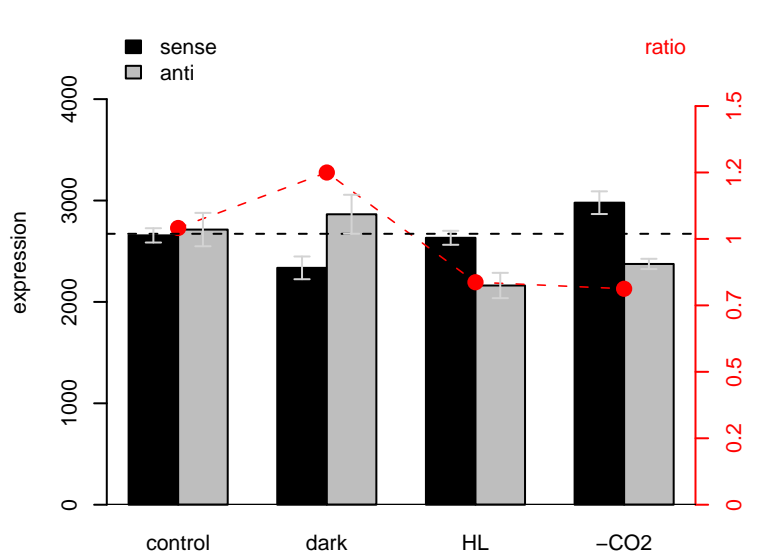
**sII1995****genome\_2359****petL****genome\_2363****aroB(slr2130)****genome\_2364**

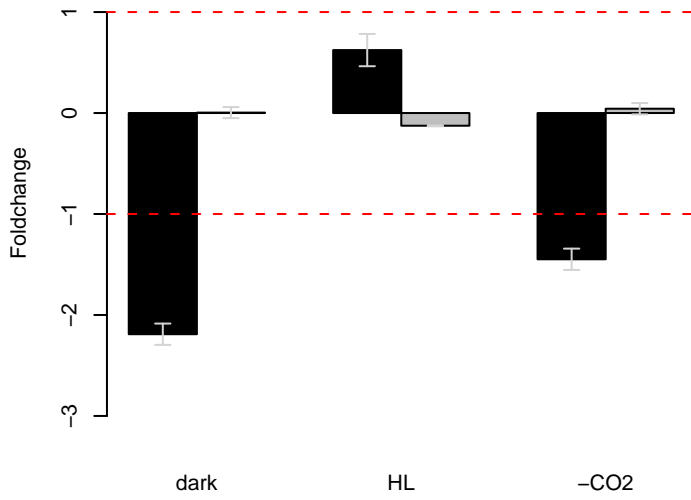
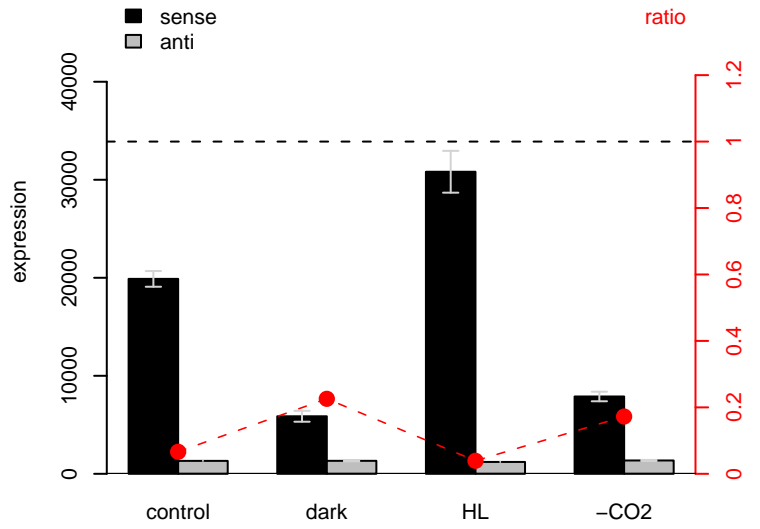
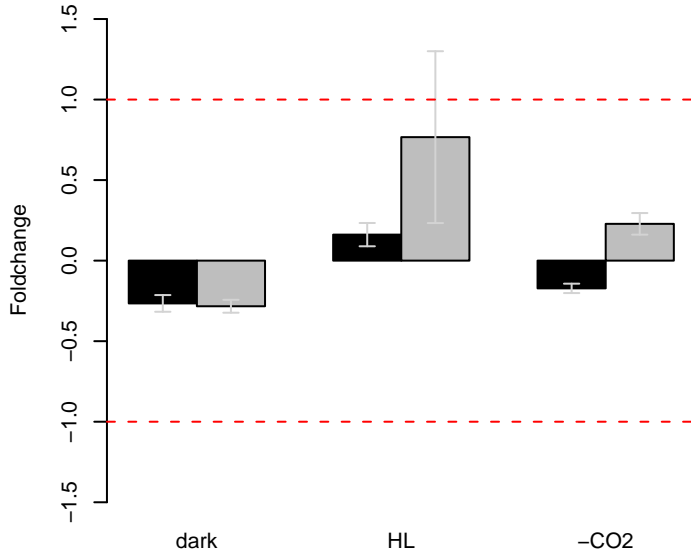
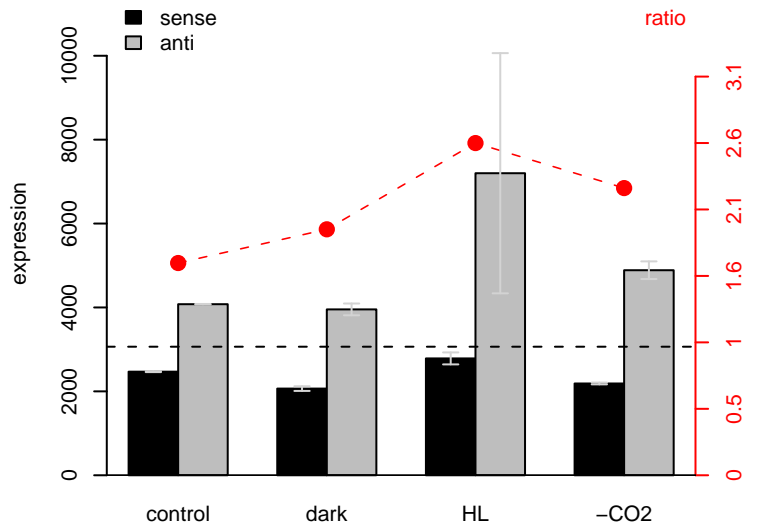
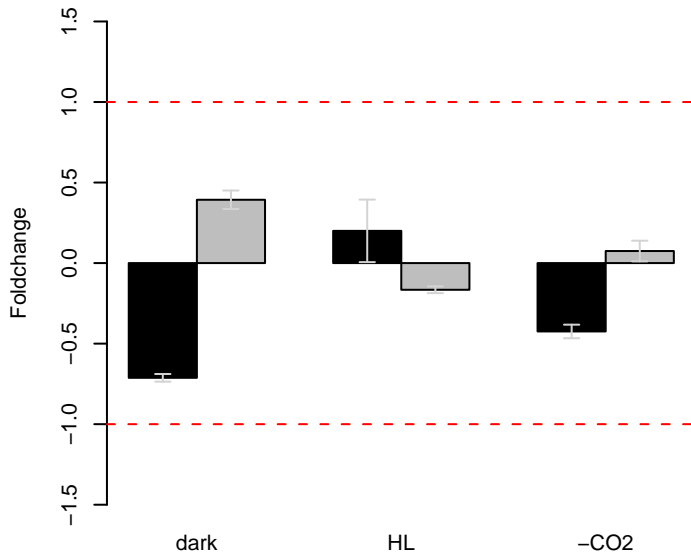
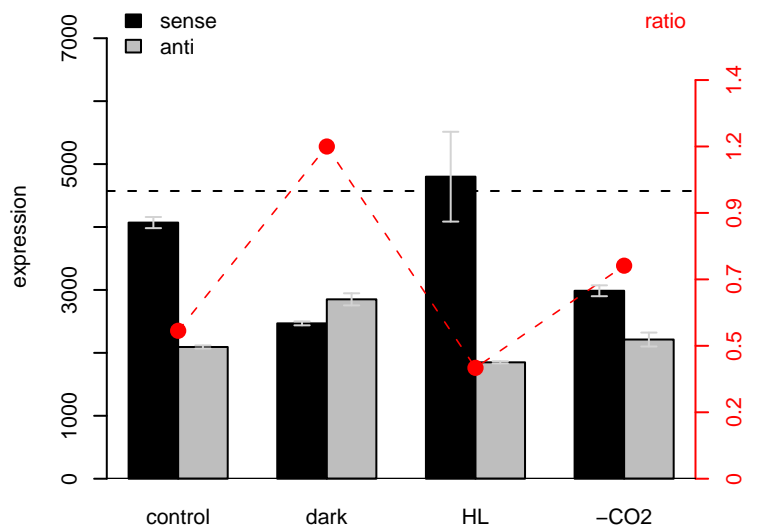
**aroB(slr2130)****genome\_2364****slr1322****genome\_2374****slr1324****genome\_2377**

**atpA(sll1326)****genome\_237****spoT(slr1325)****genome\_2381****ahcY(sll1234)****genome\_2384**

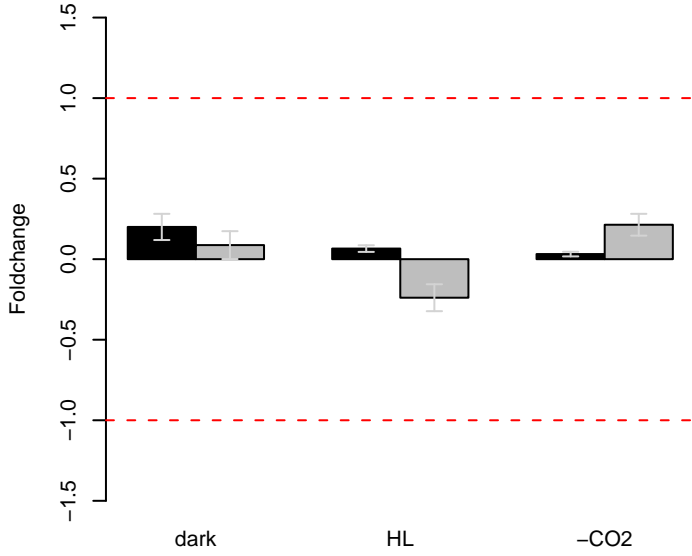


**slr1327****genome\_2388****sll1233****genome\_2390****sll1232****genome\_2392**

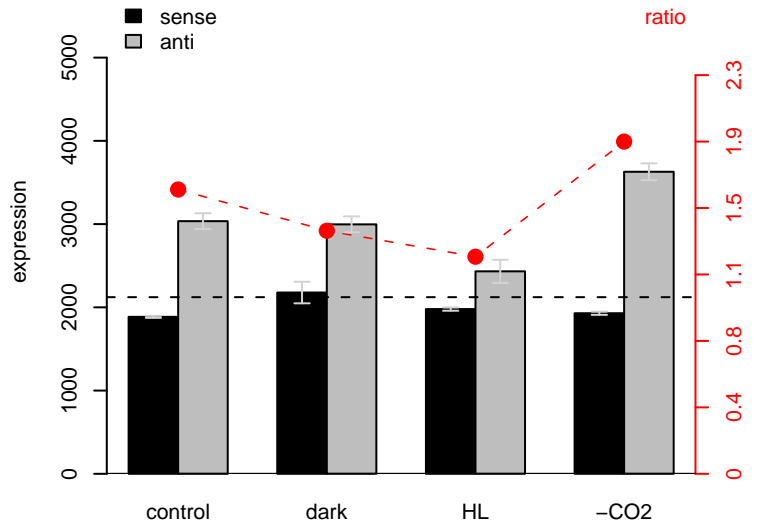
**sll1232****genome\_2392****sll1229****genome\_2396****sll1228****genome\_2398**

**atpF(slr1324)****genome\_240****slr1334****genome\_2421****dacB(slr0804)****genome\_2428**

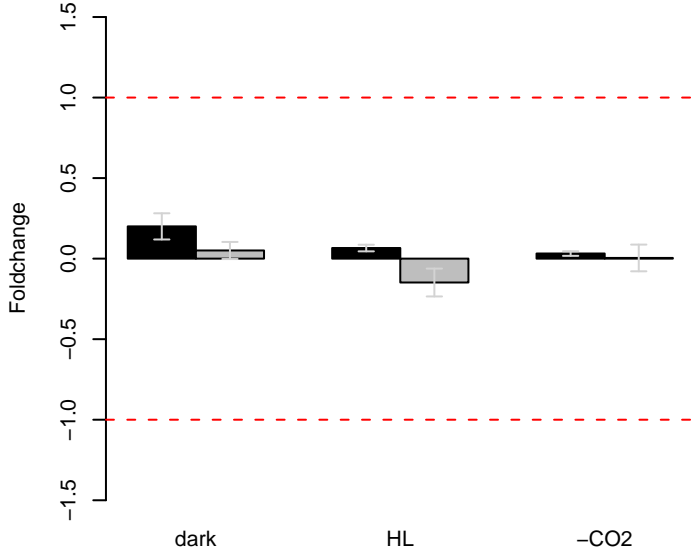
**gcp(slr0807)**



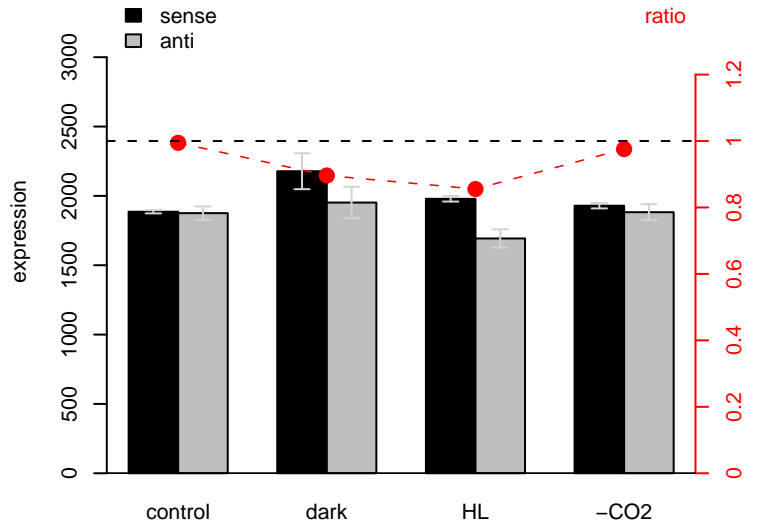
**genome\_2433**



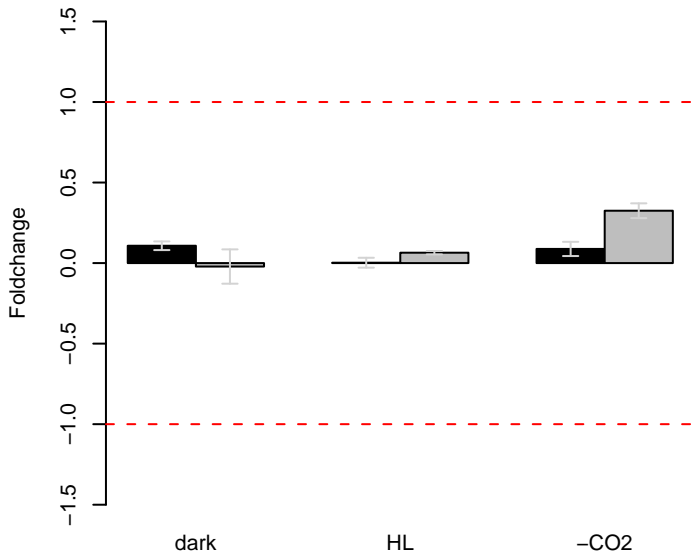
**gcp(slr0807)**



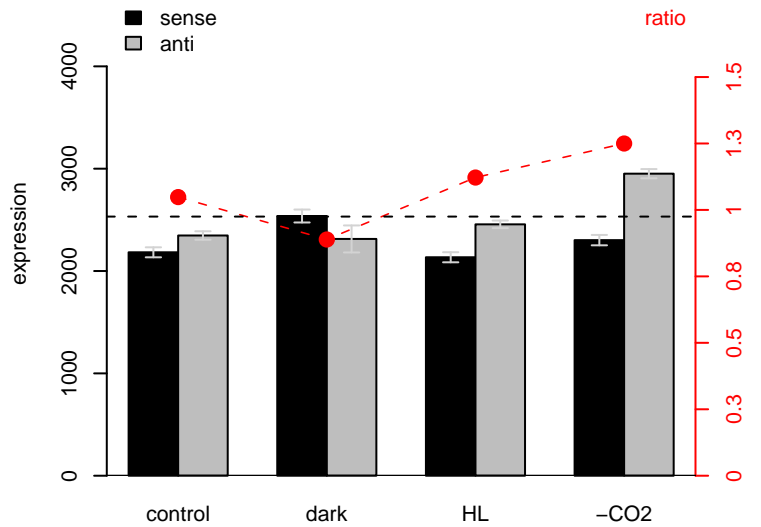
**genome\_2433**

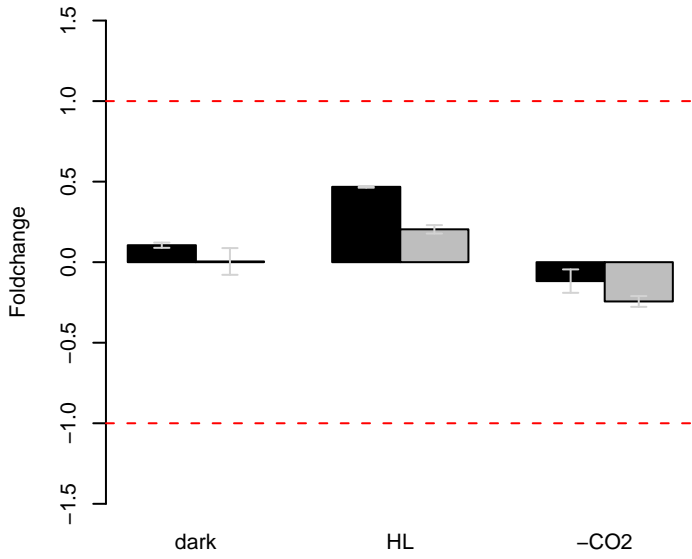
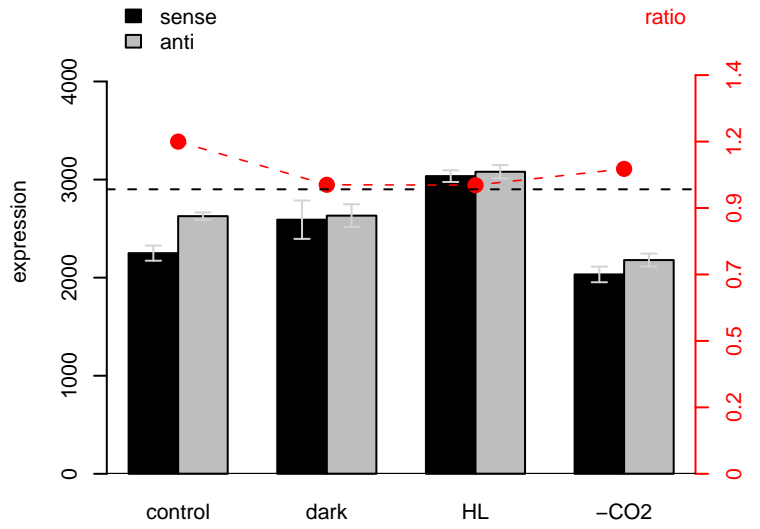
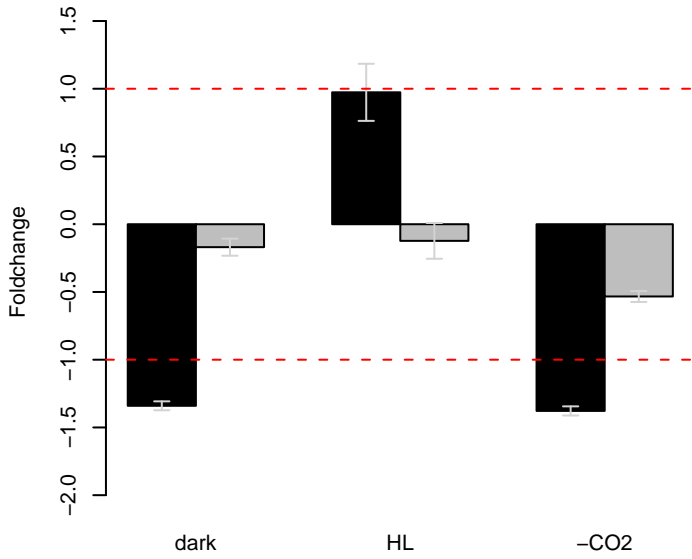
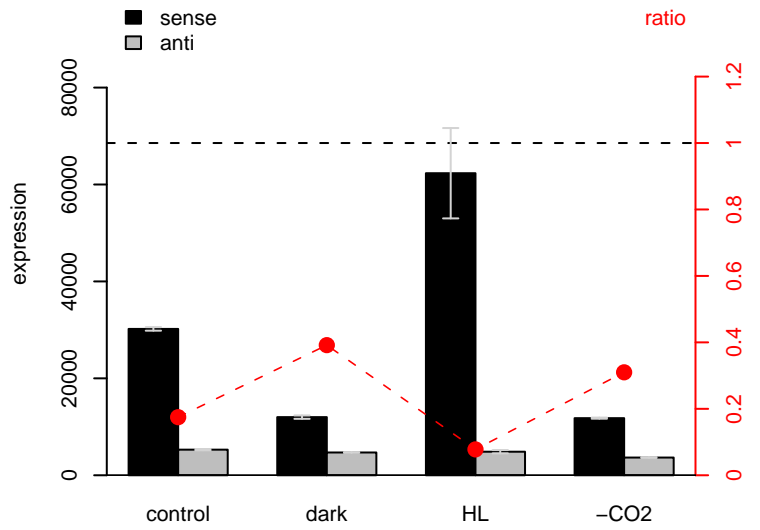
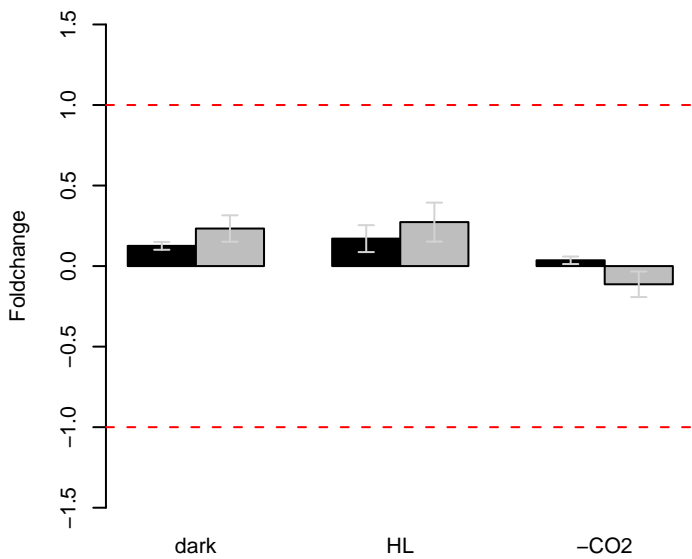
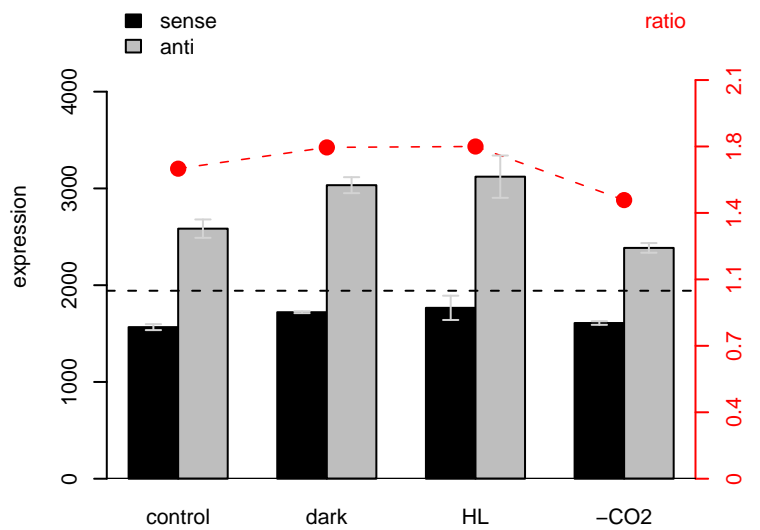


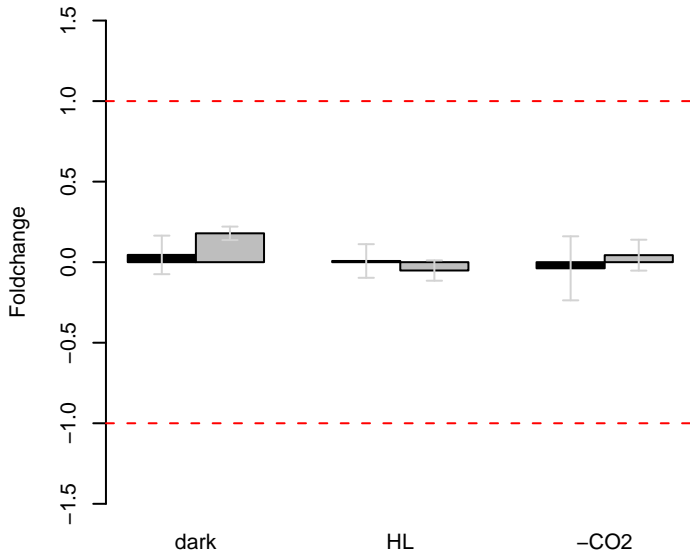
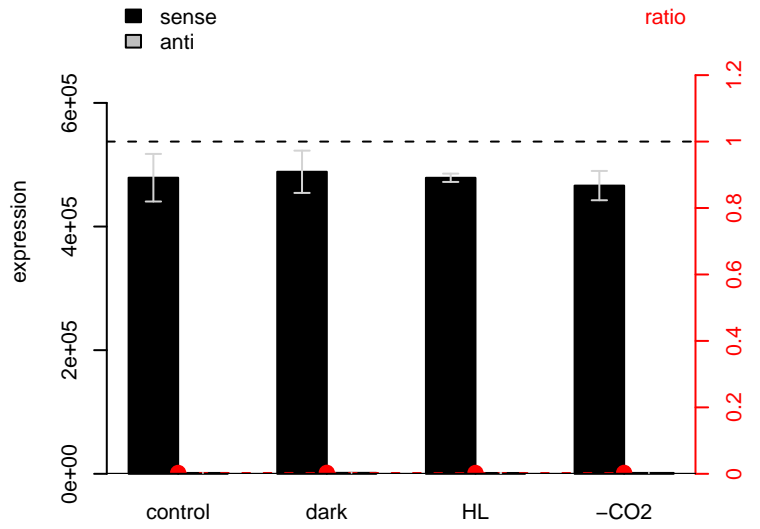
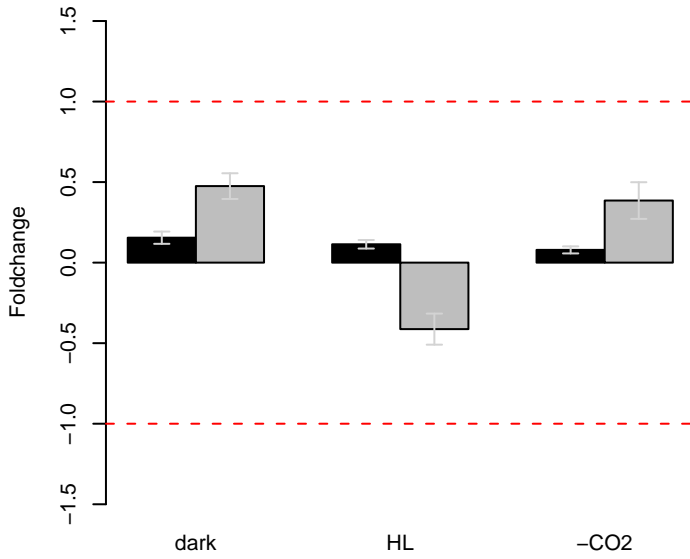
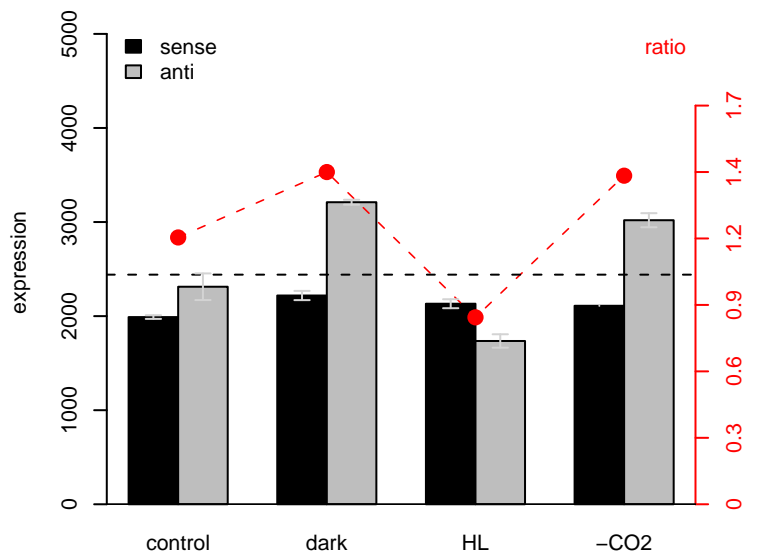
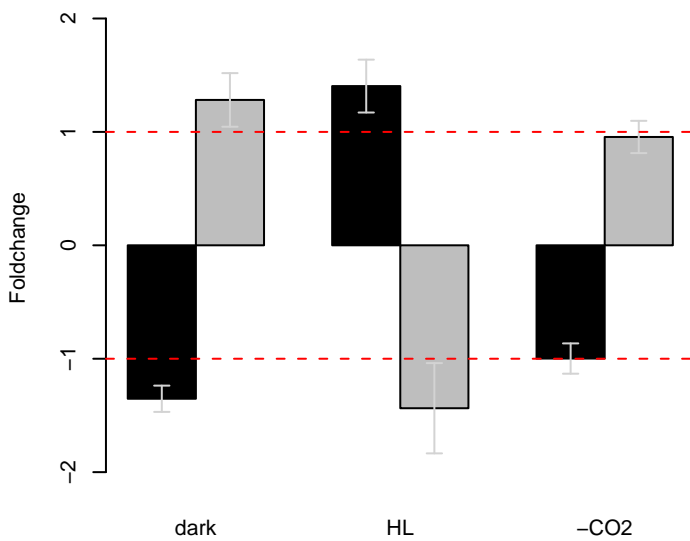
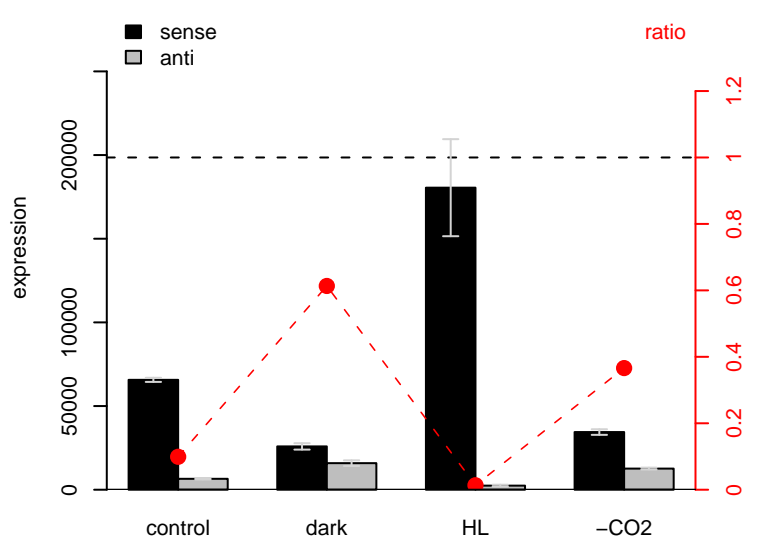
**slI0818**

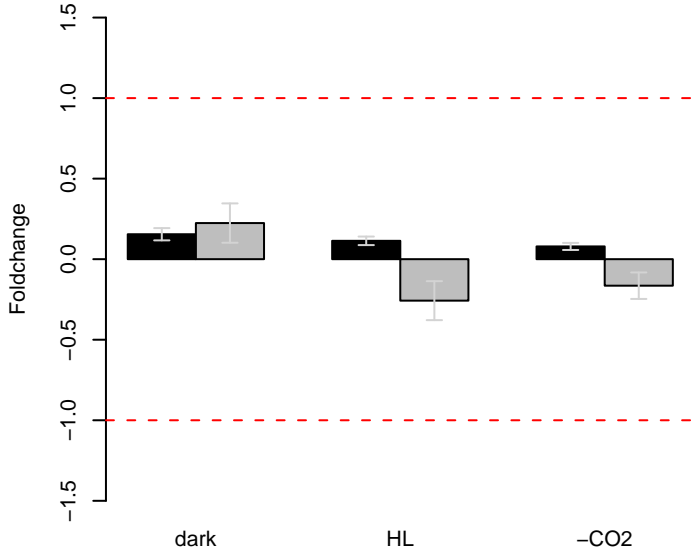
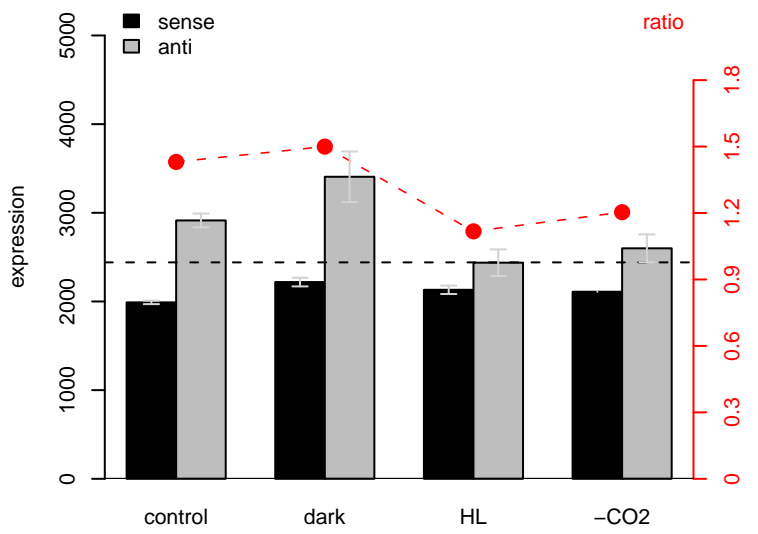
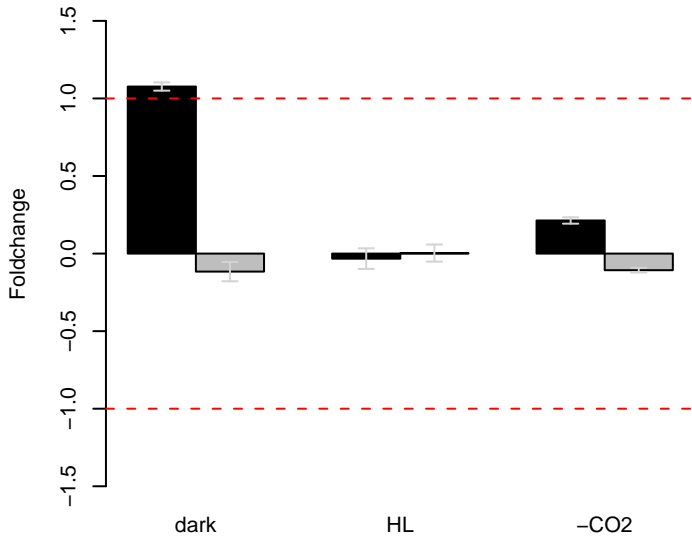
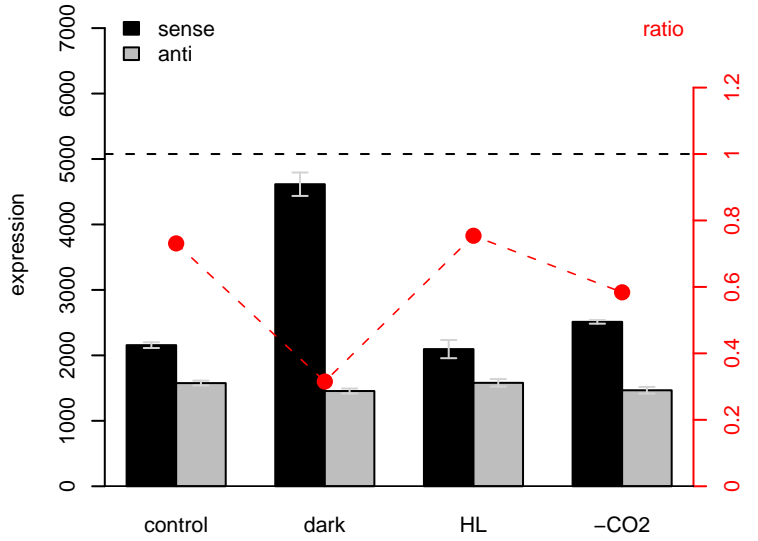
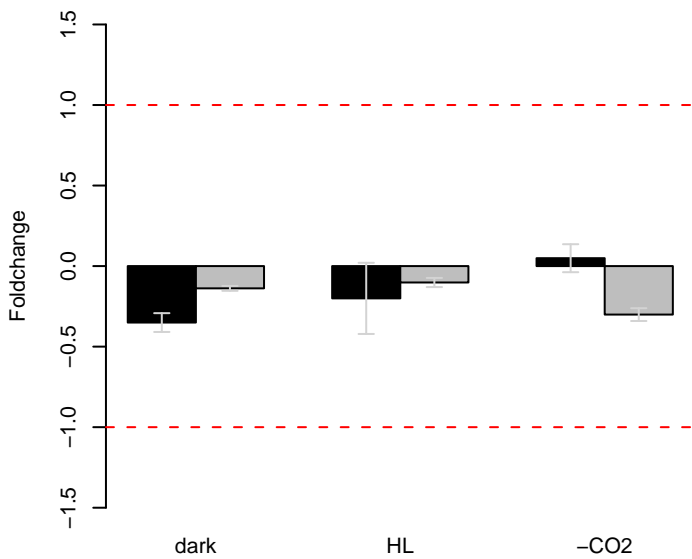
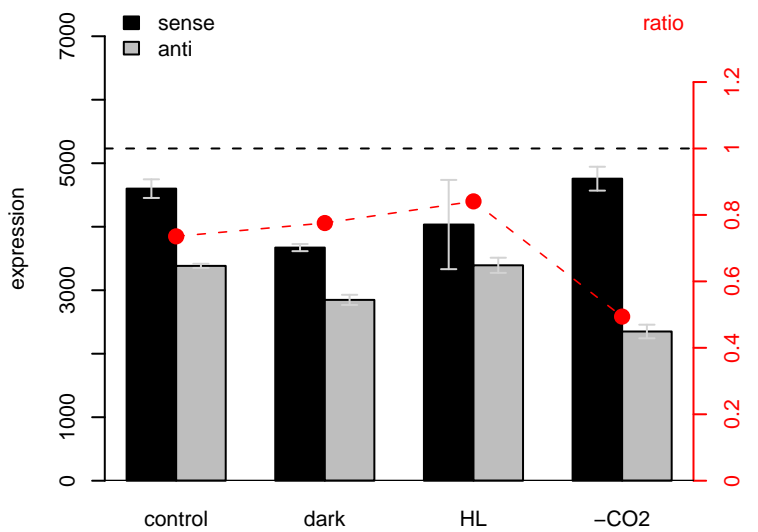


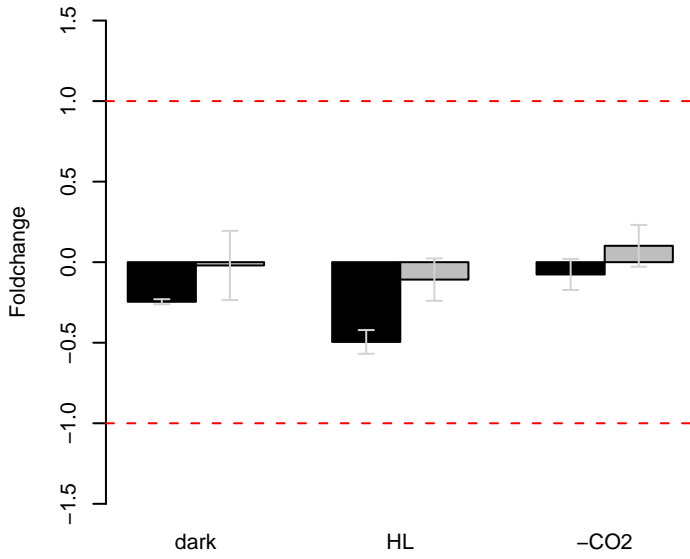
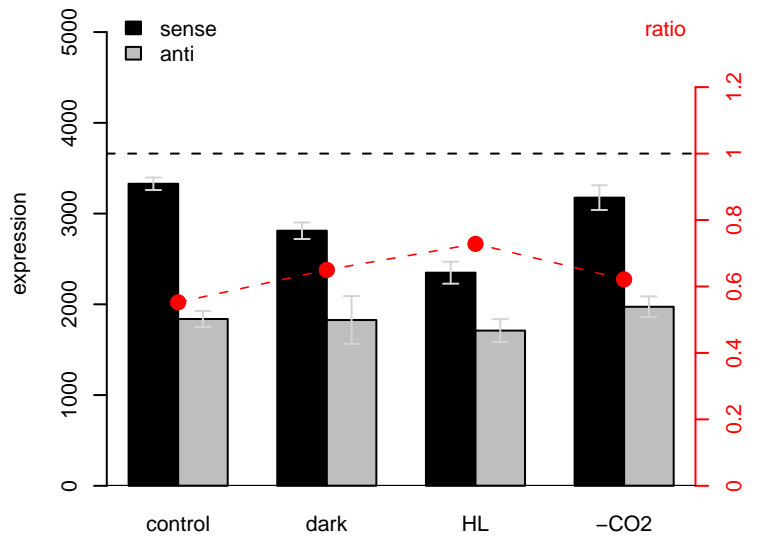
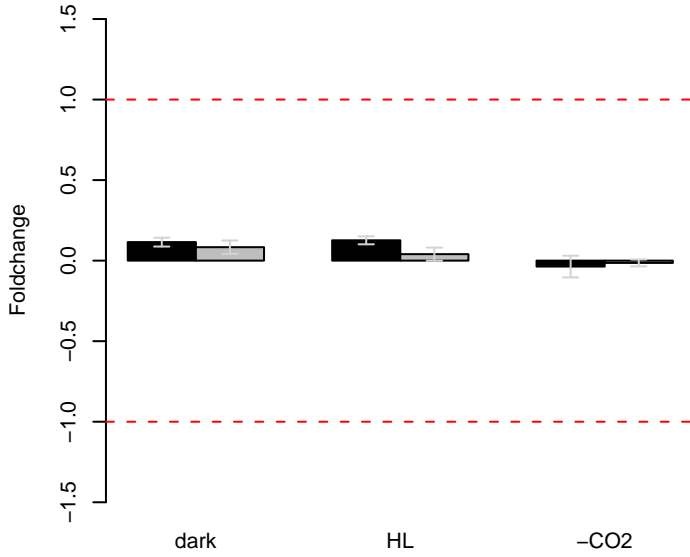
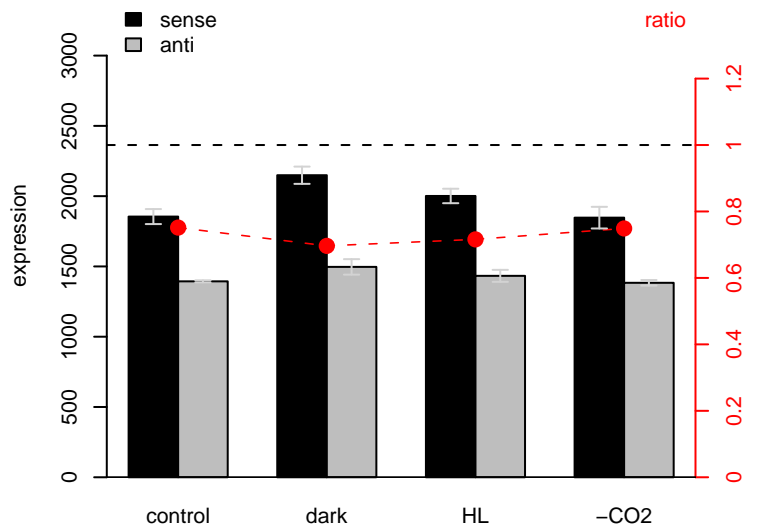
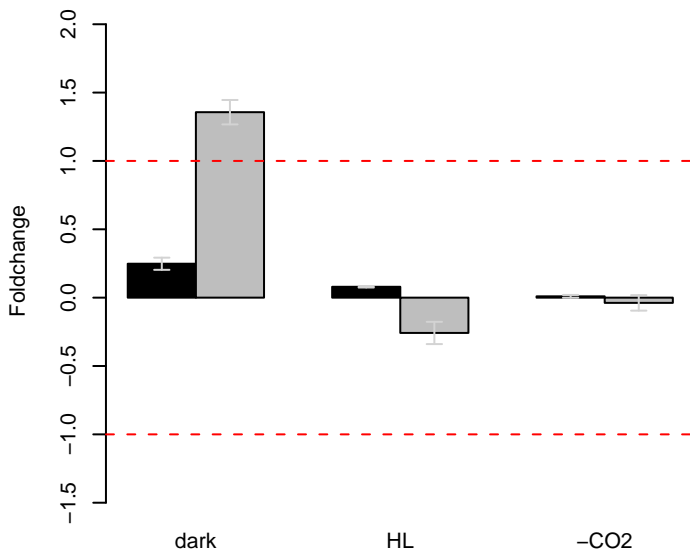
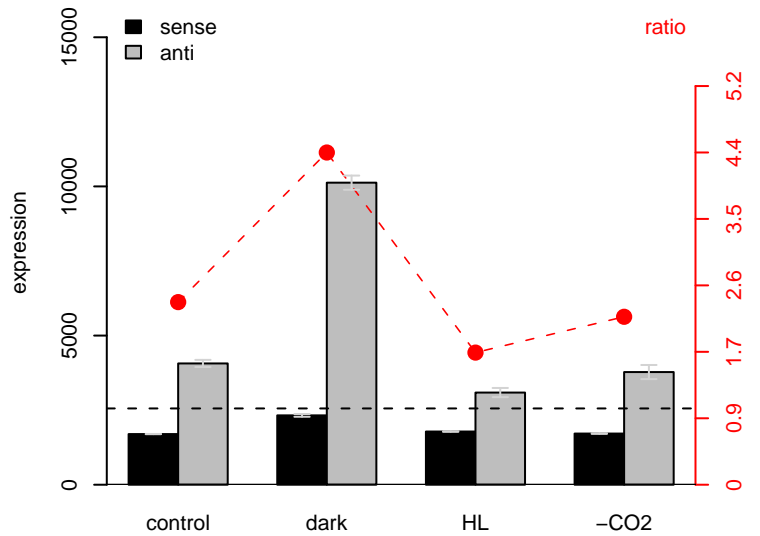
**genome\_2440**



**sli0816****genome\_2443****atpl(sli1322)****genome\_244****slr0813****genome\_2452**

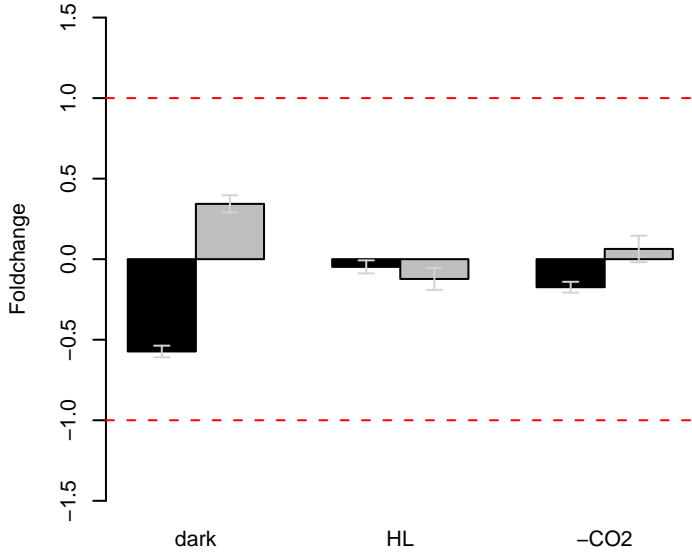
**6803t17****genome\_2464****Int(slr0819)****genome\_2468****atp1(sll1321)****genome\_246**

**Int(slr0819)****genome\_2468****slr1413****genome\_249****ycf3(slr0823)****genome\_2484**

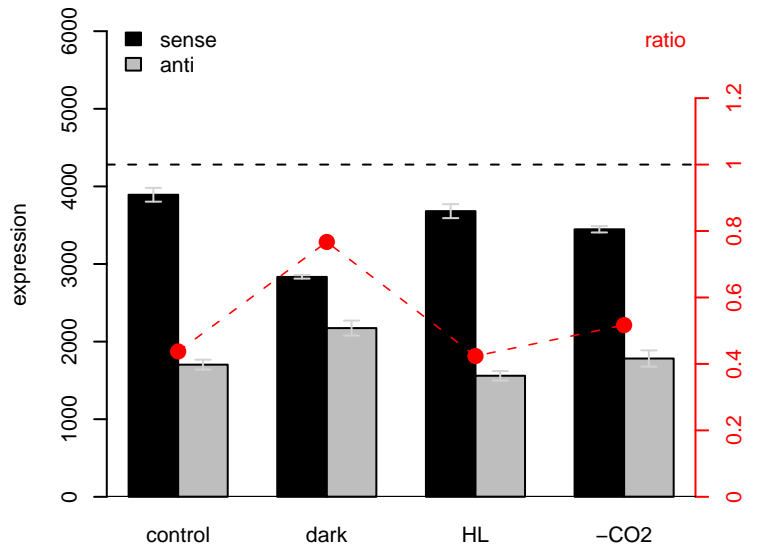
**slr1338****genome\_2501****slr1343****genome\_2512****pcnB(sll1253)****genome\_2514**



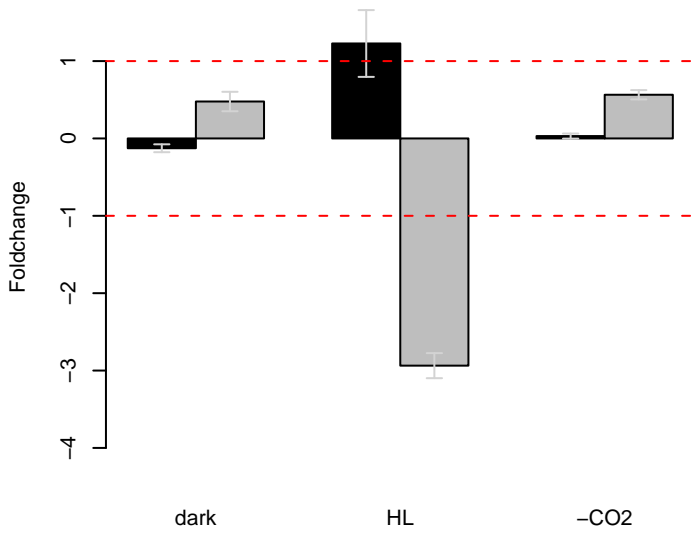
**pgi(slr1349)**



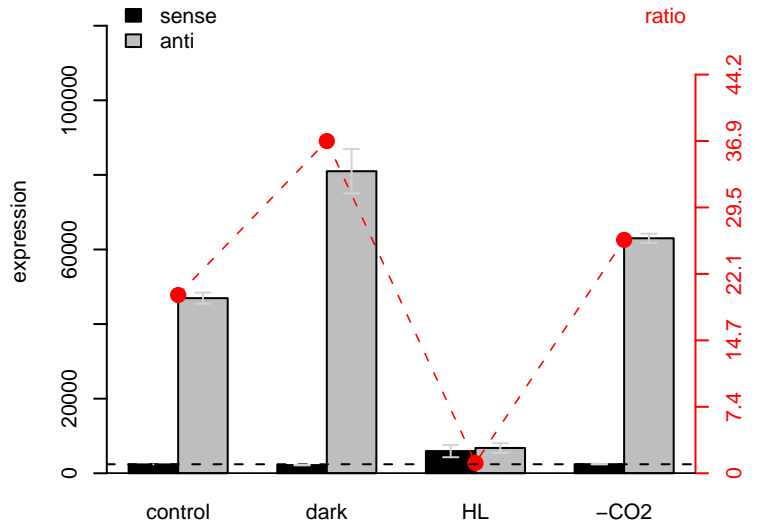
**genome\_2526**



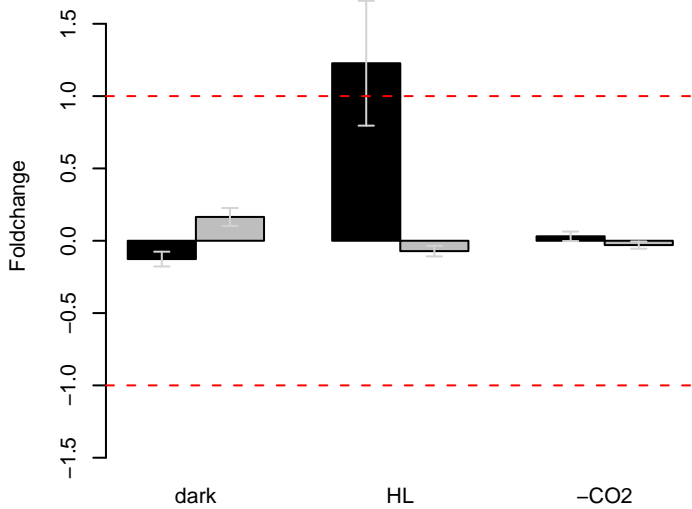
**murf**



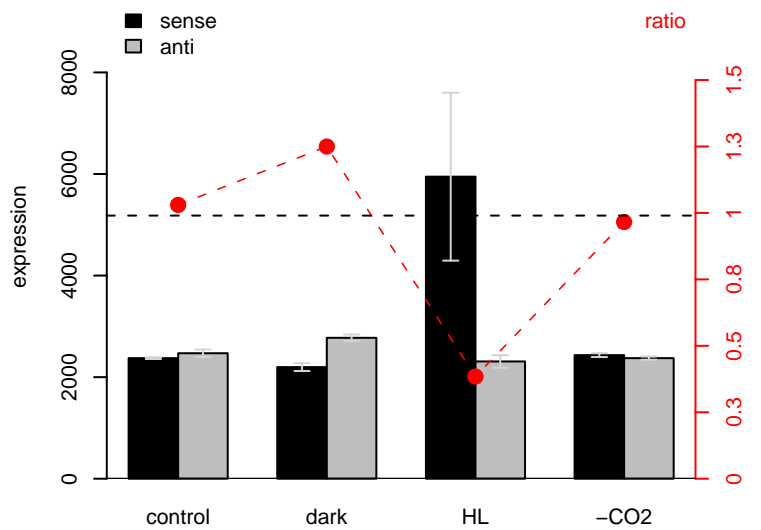
**genome\_2532**

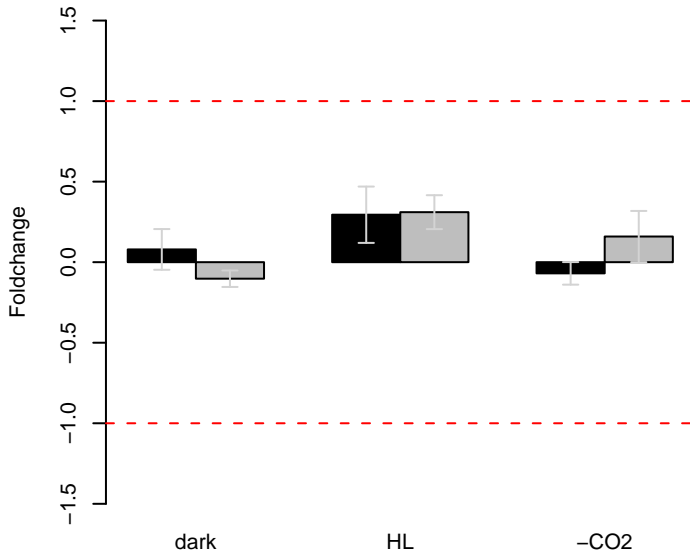
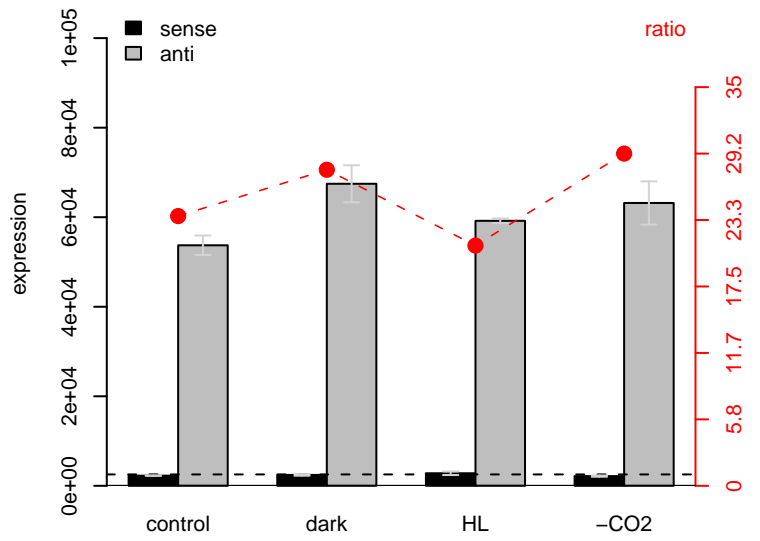
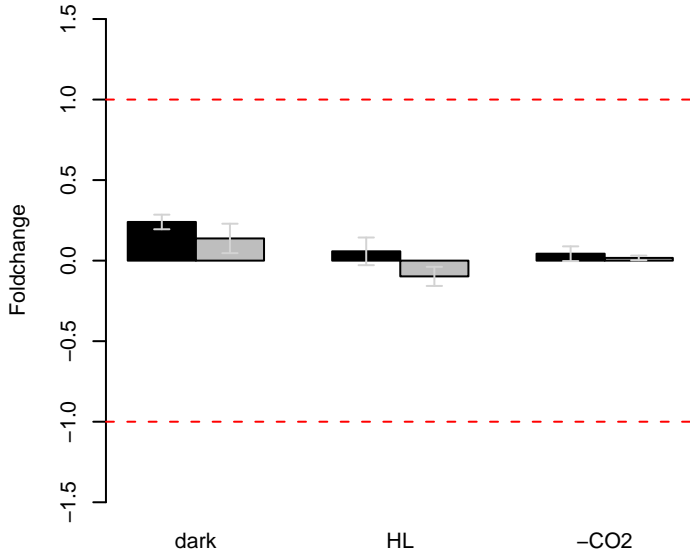
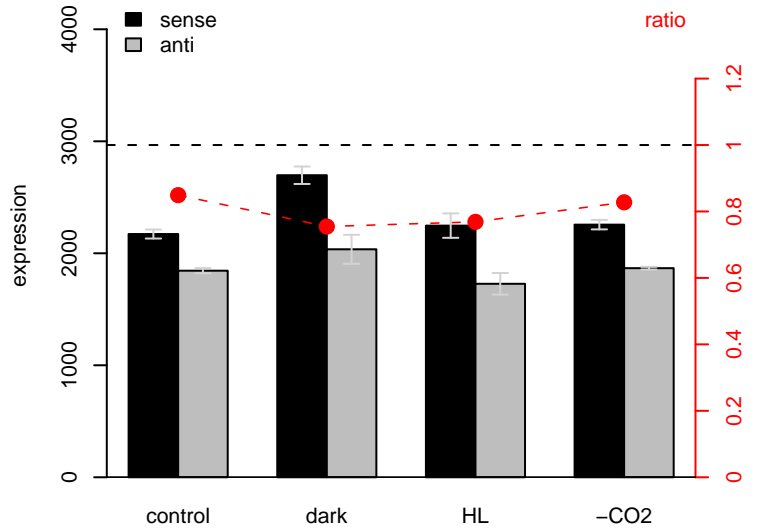
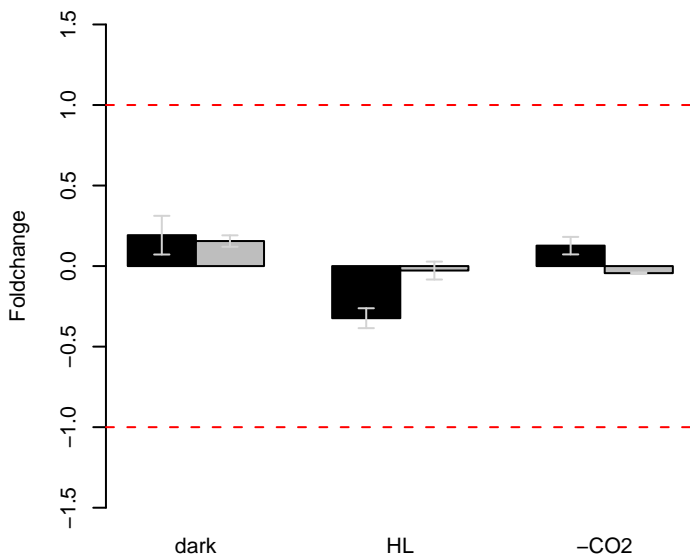
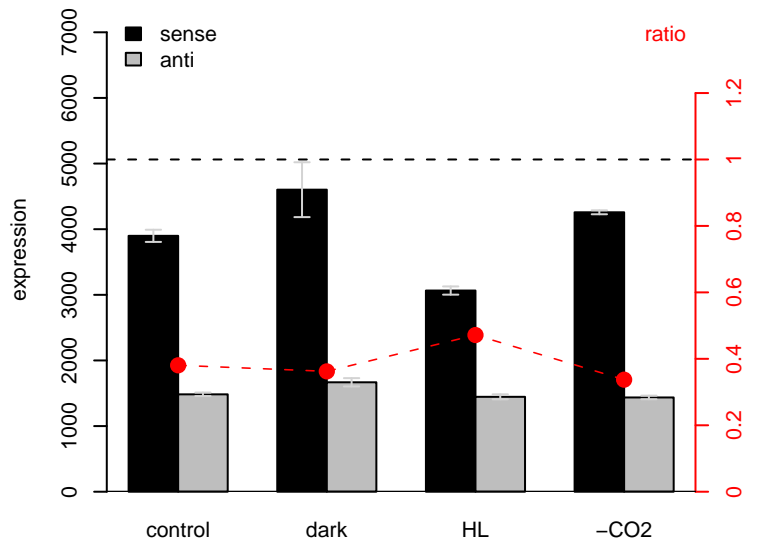


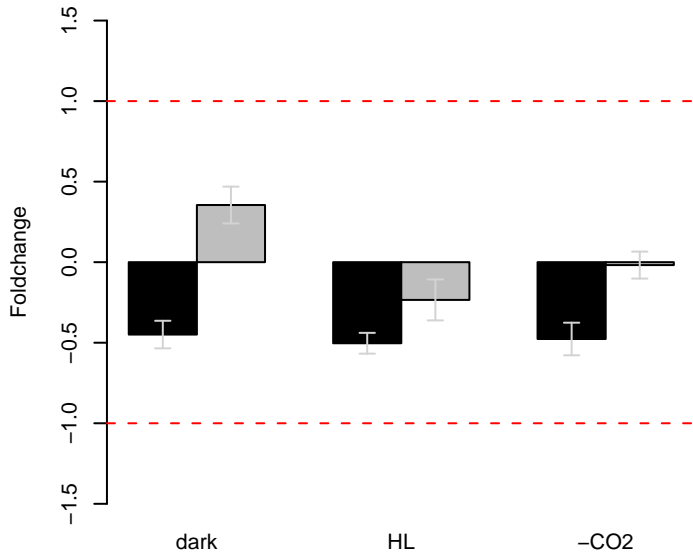
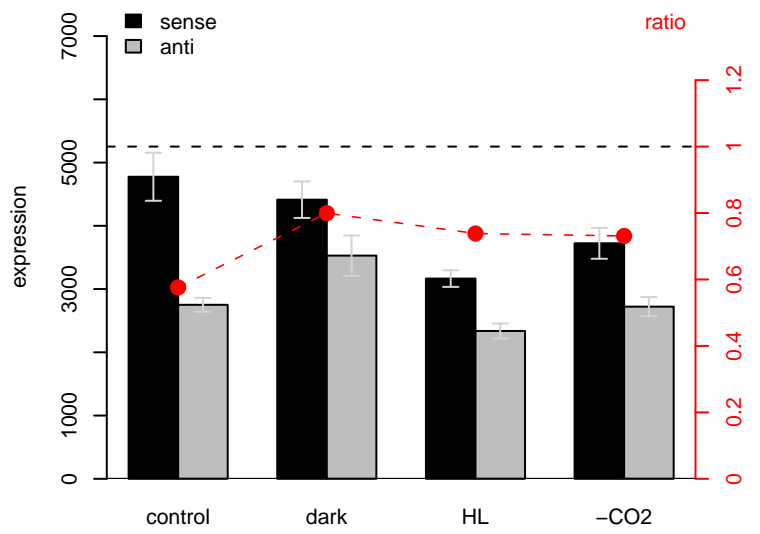
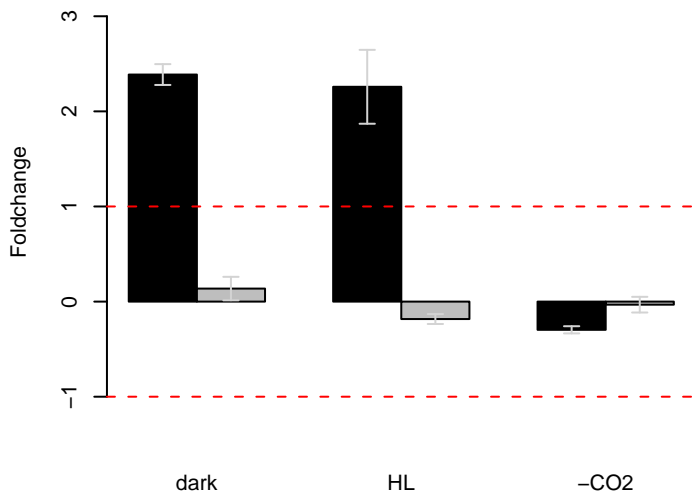
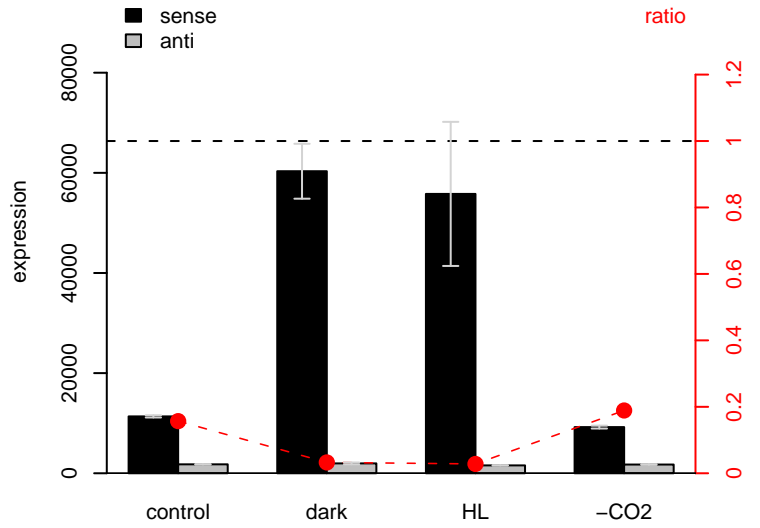
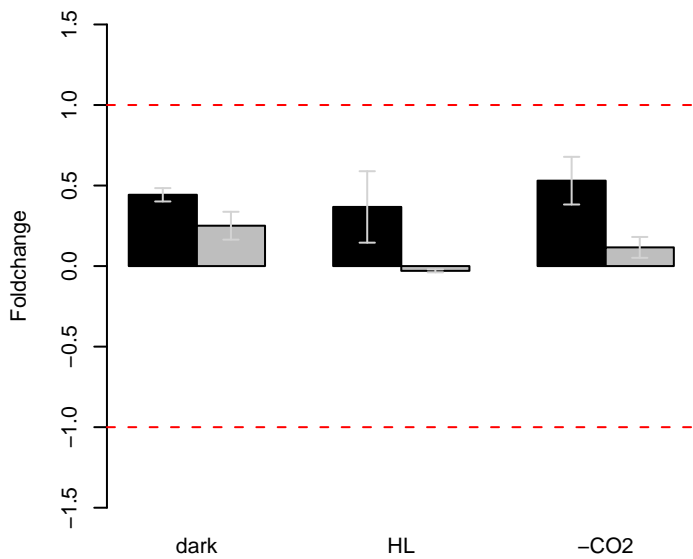
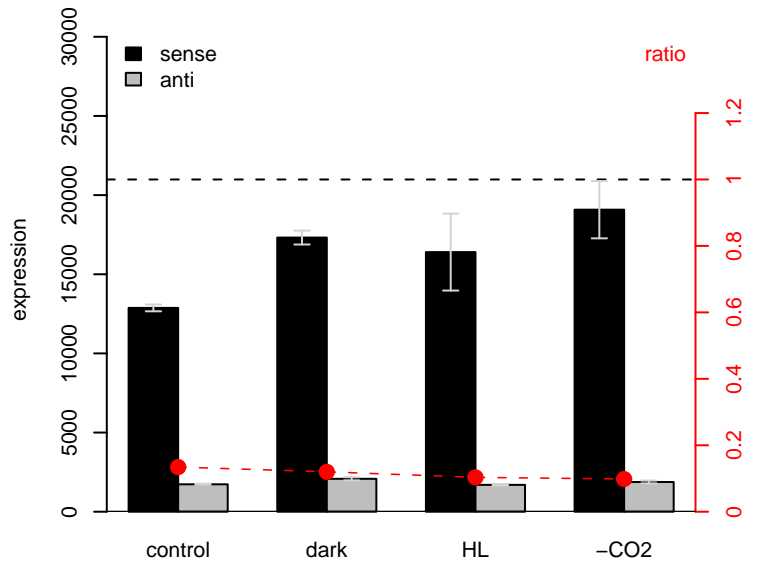
**murF(slr1351)**



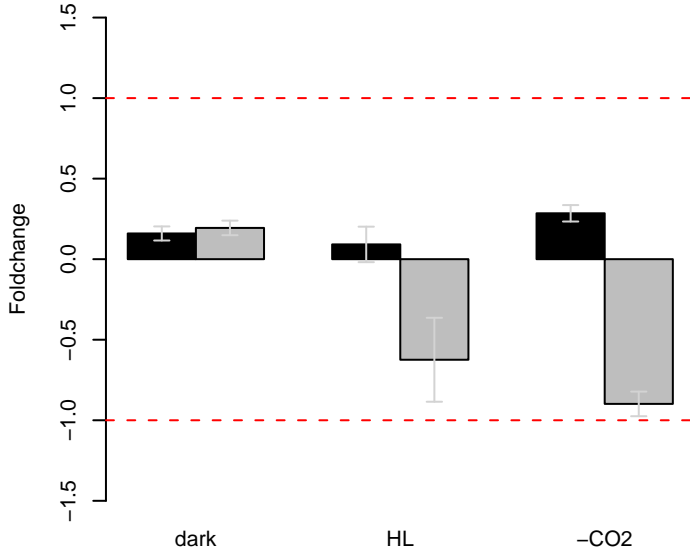
**genome\_2532**



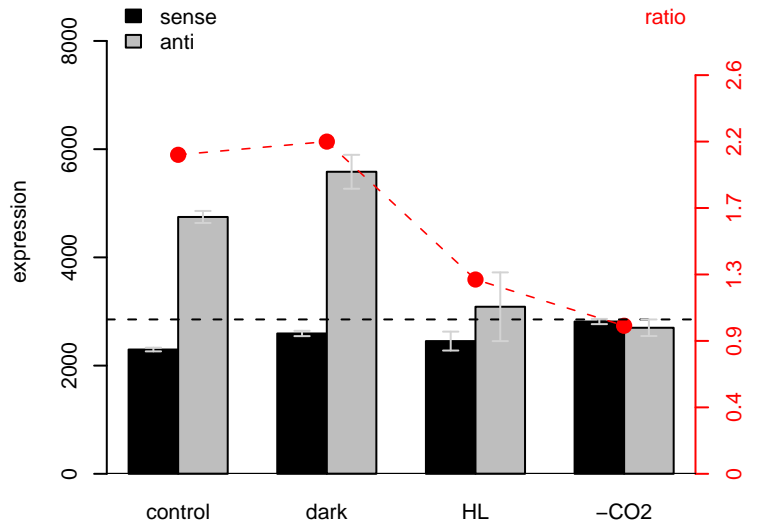
**slr1353****genome\_2536****slr1956****genome\_2539****slr1958****genome\_2543**

**sll1898****genome\_2547****slr1963****genome\_2557****slr1417****genome\_255**

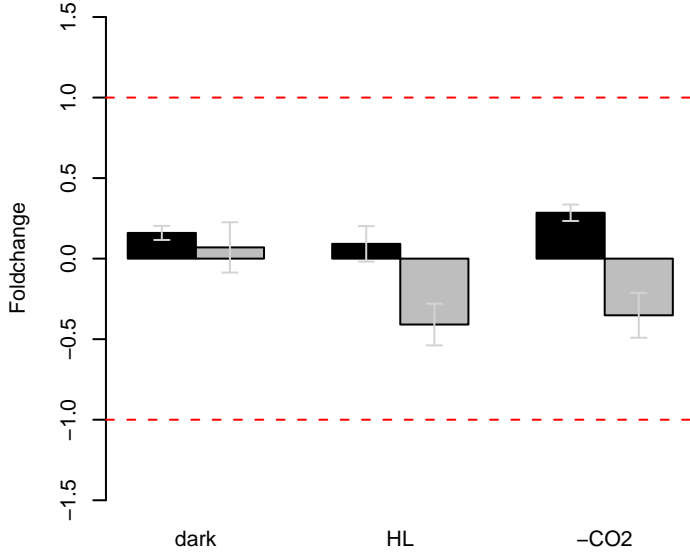
**ribA(sll1894)**



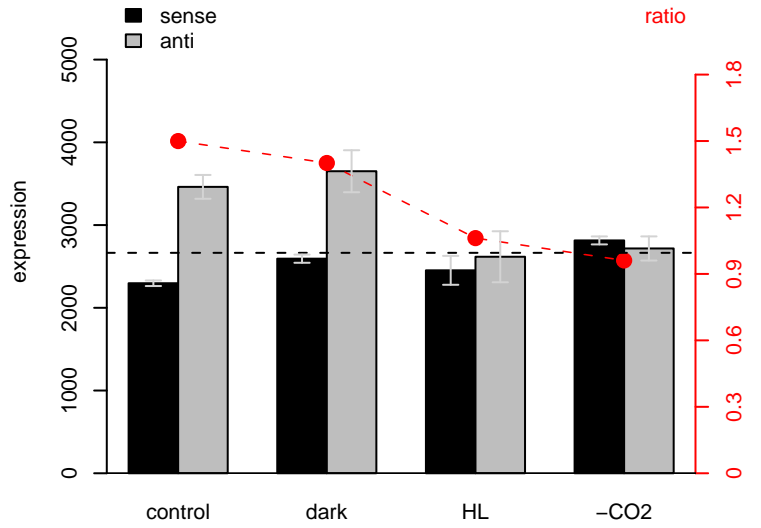
**genome\_2560**



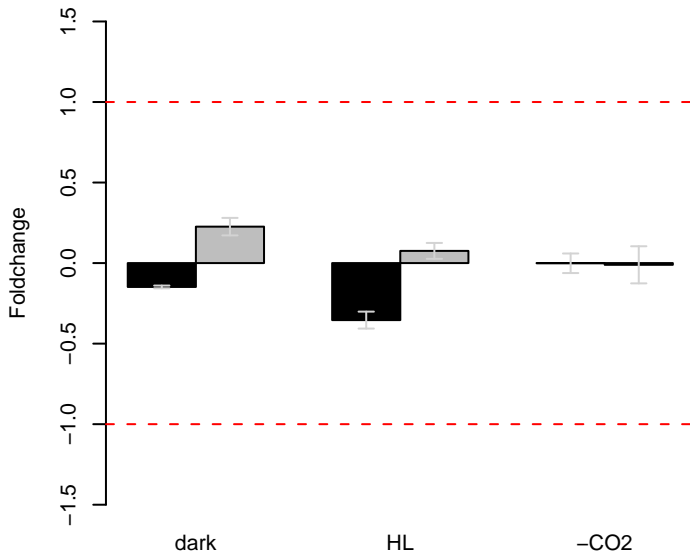
**ribA(sll1894)**



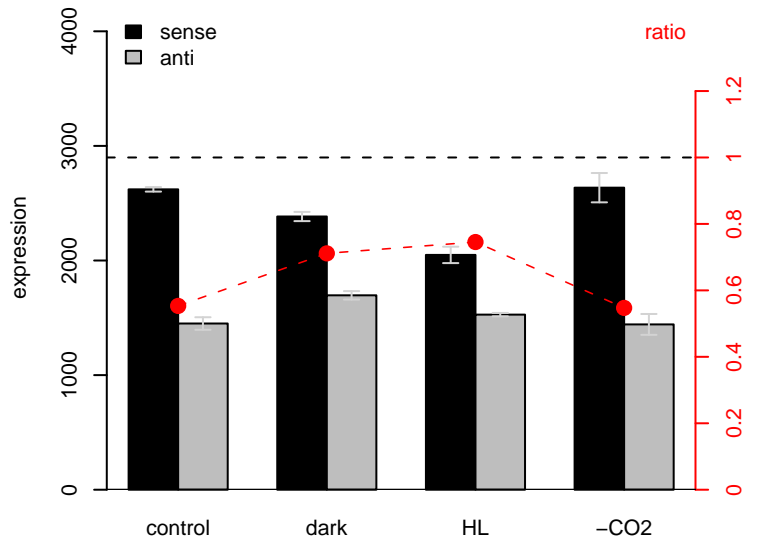
**genome\_2560**



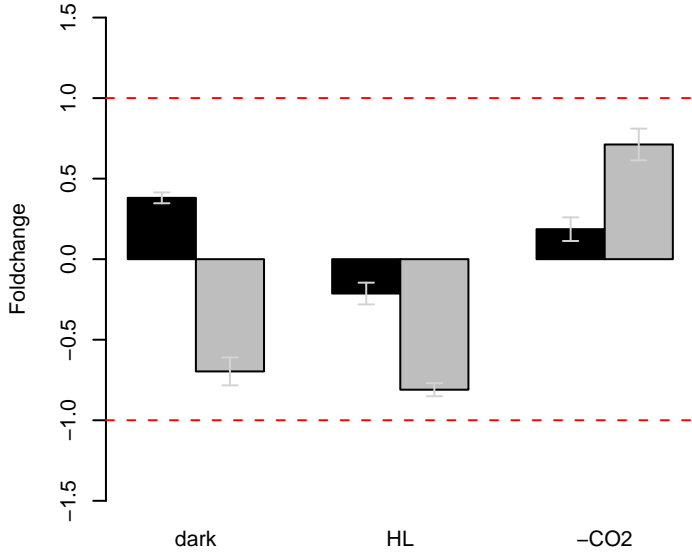
**slr1966**



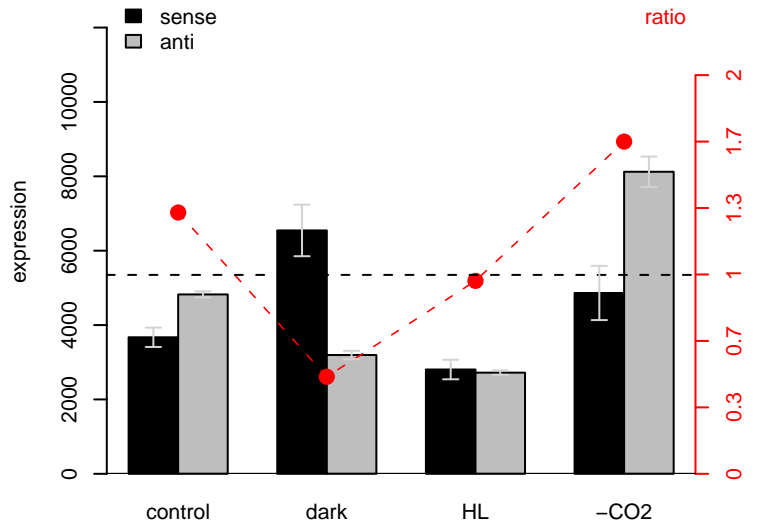
**genome\_2564**



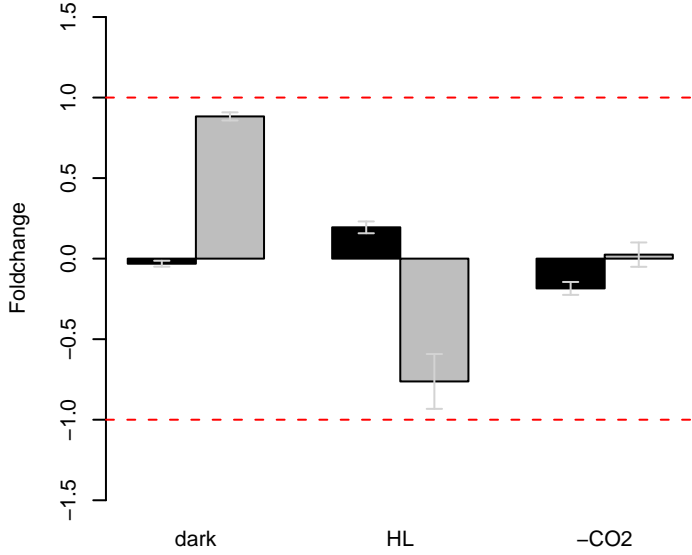
**slr1968**



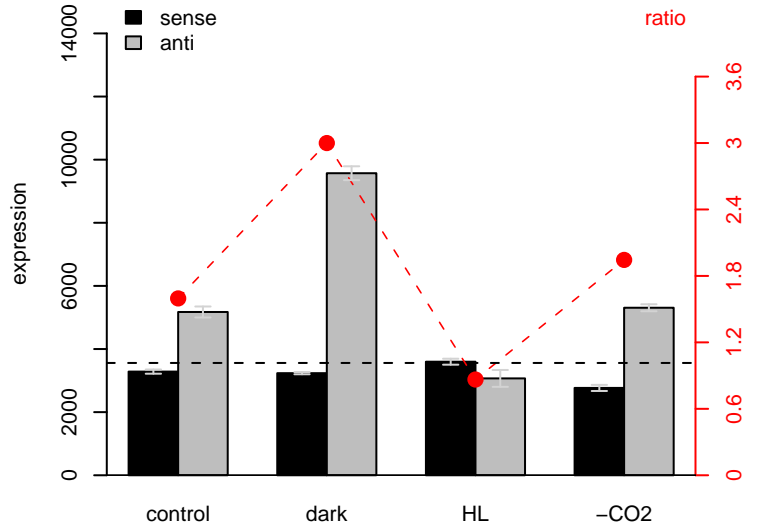
**genome\_2569**



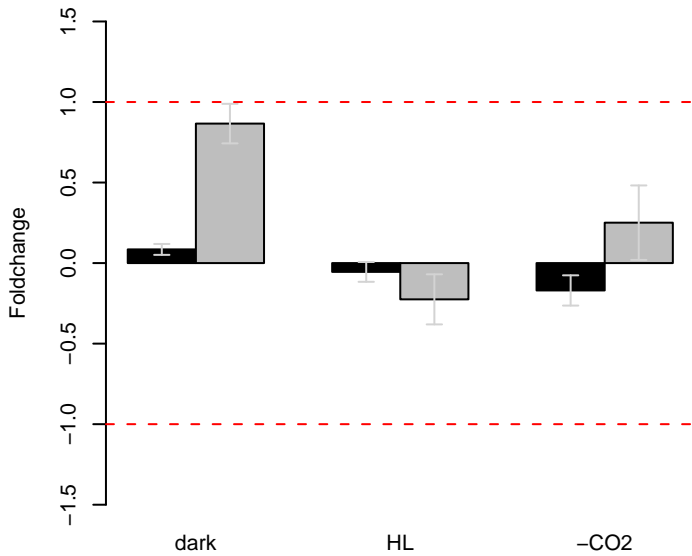
**cobN(sil1890)**



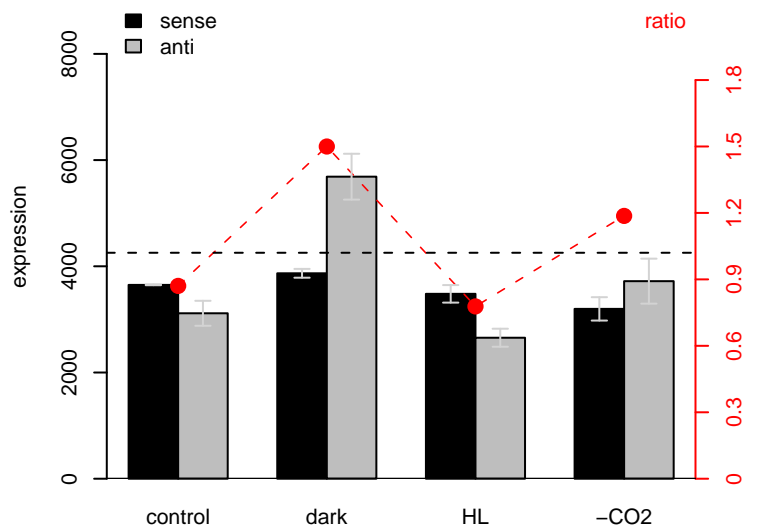
**genome\_2572**

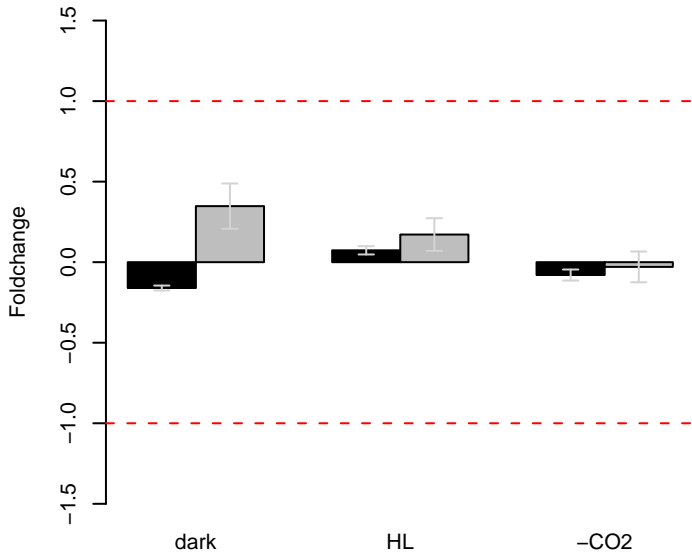
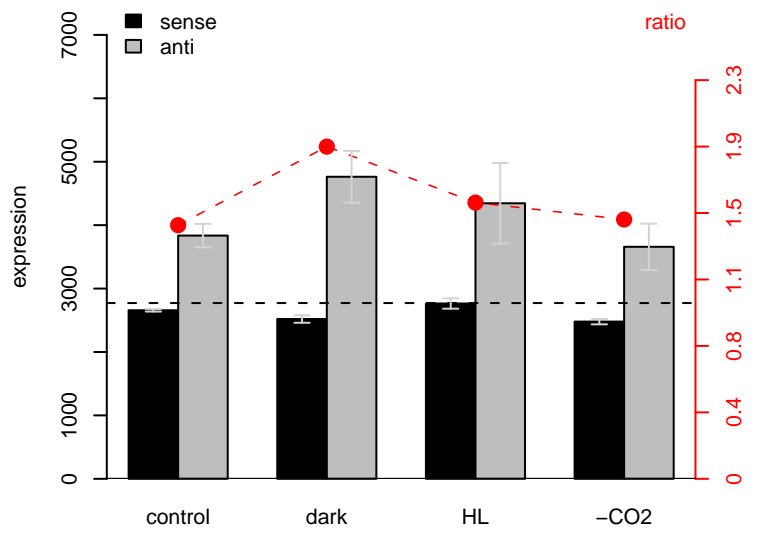
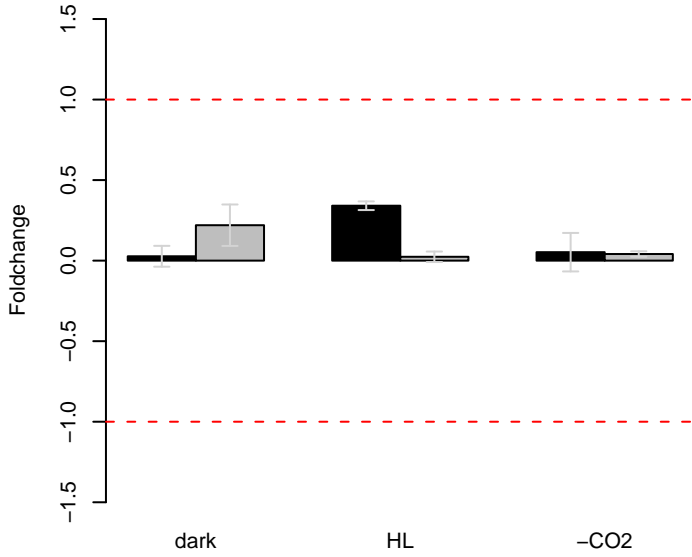
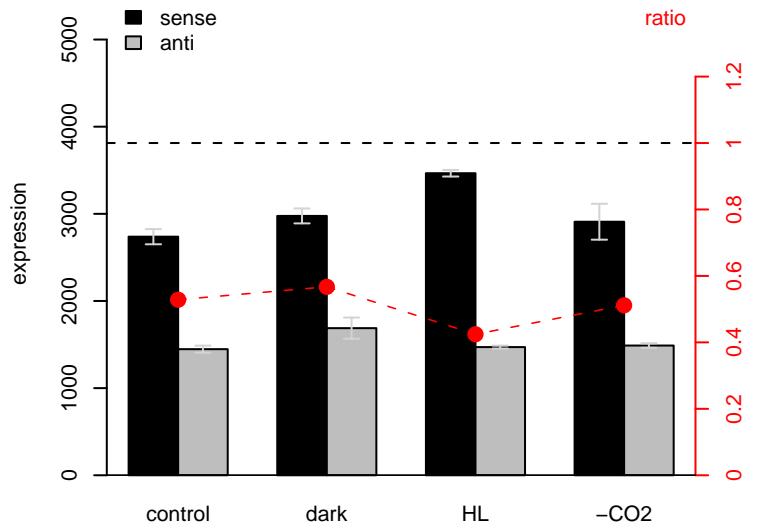
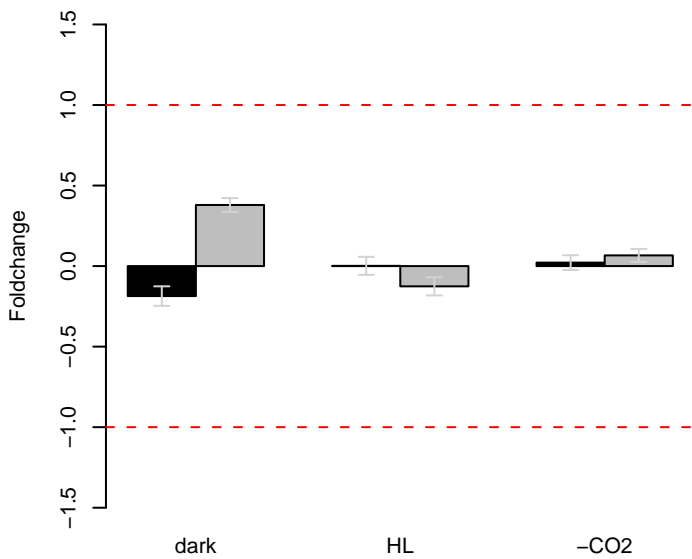
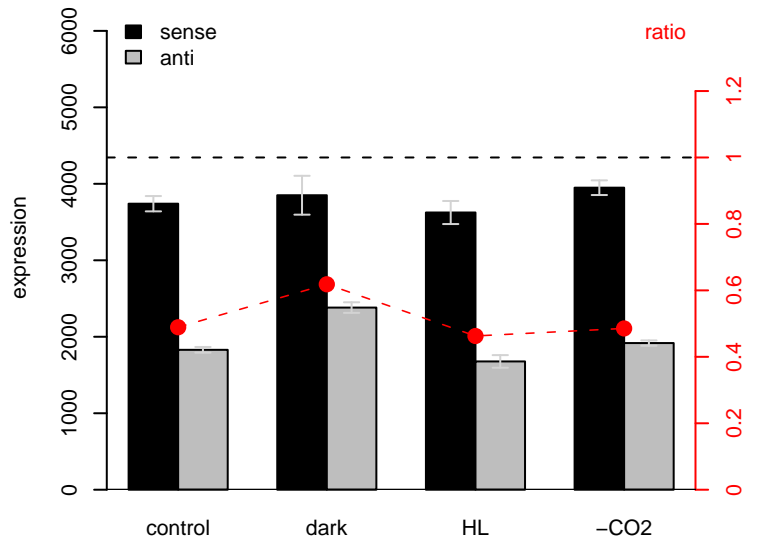


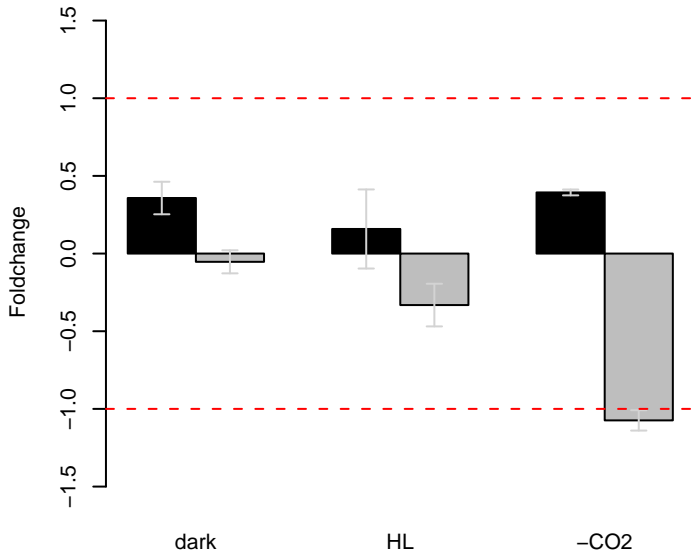
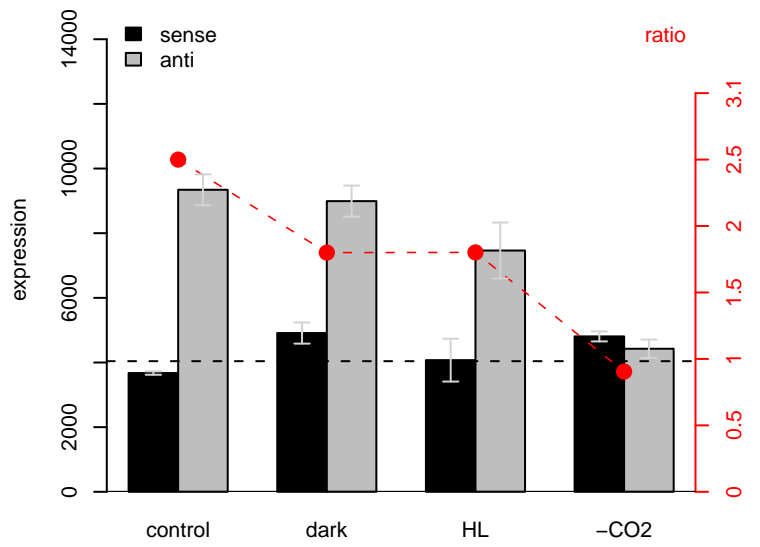
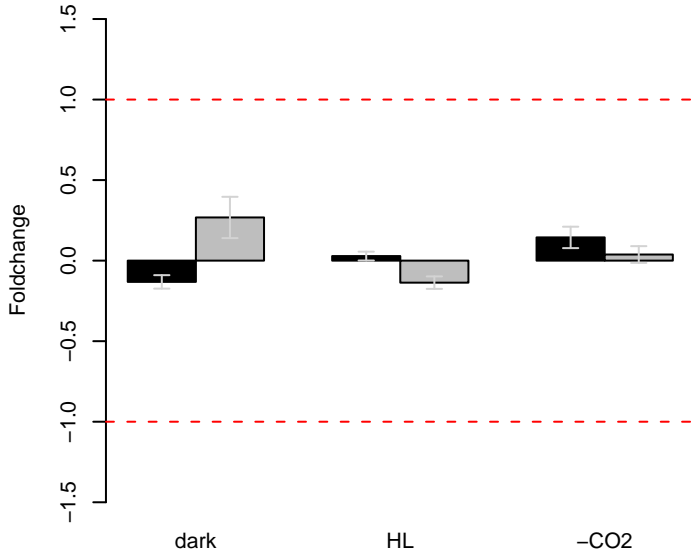
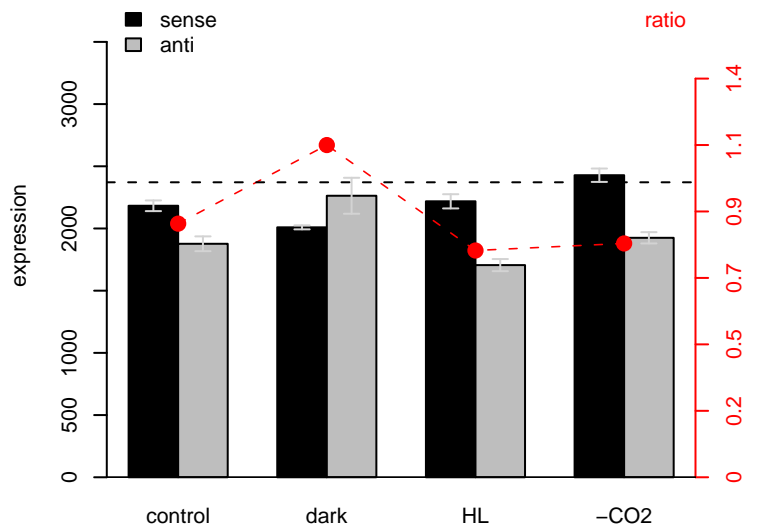
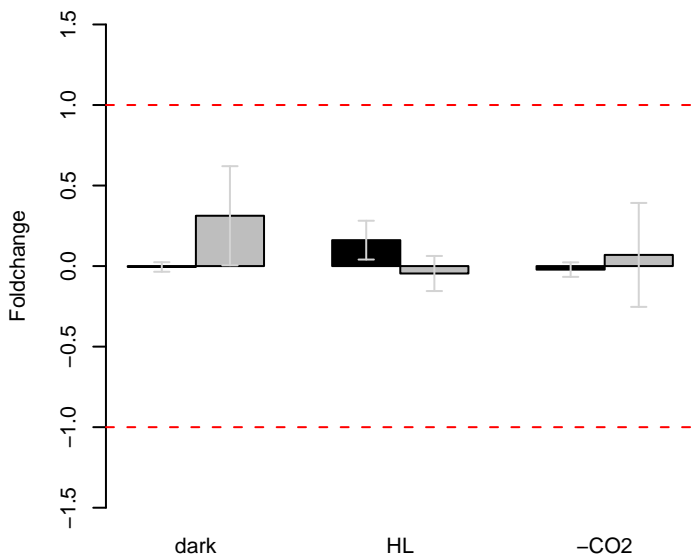
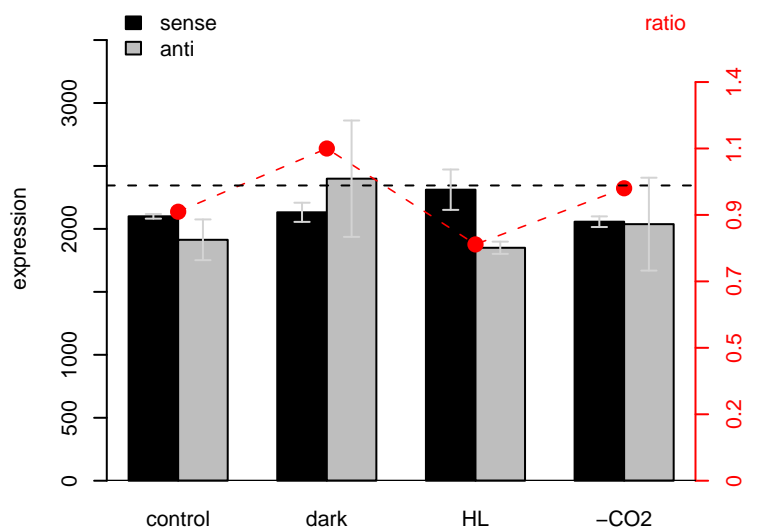
**sil1886**

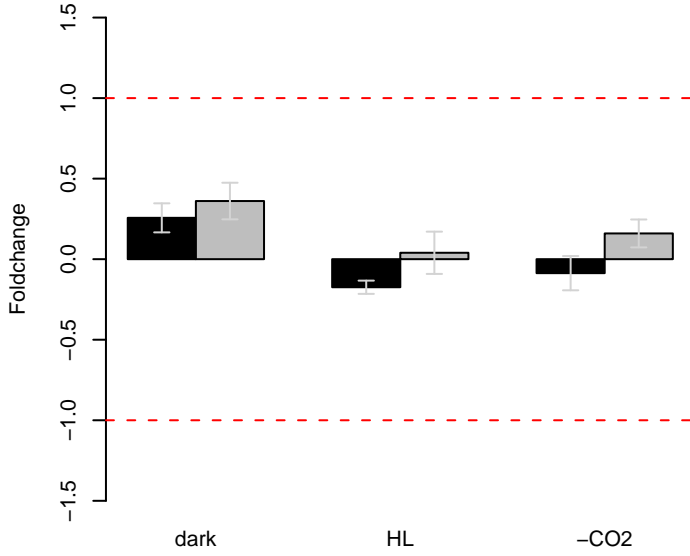
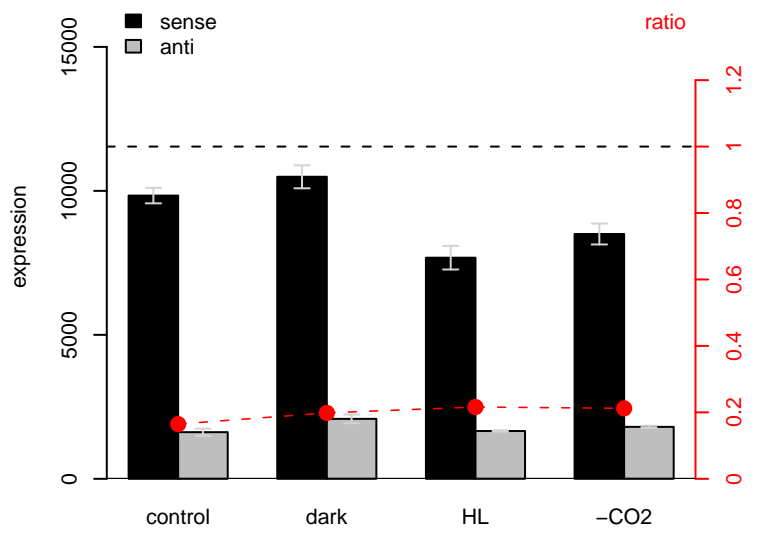
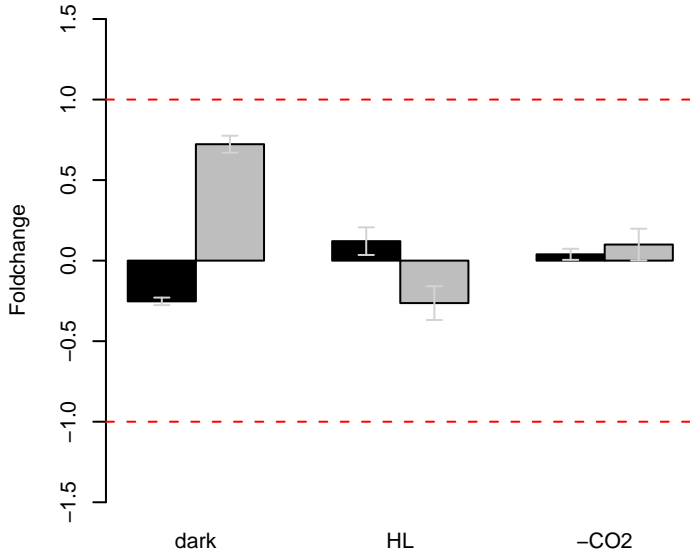
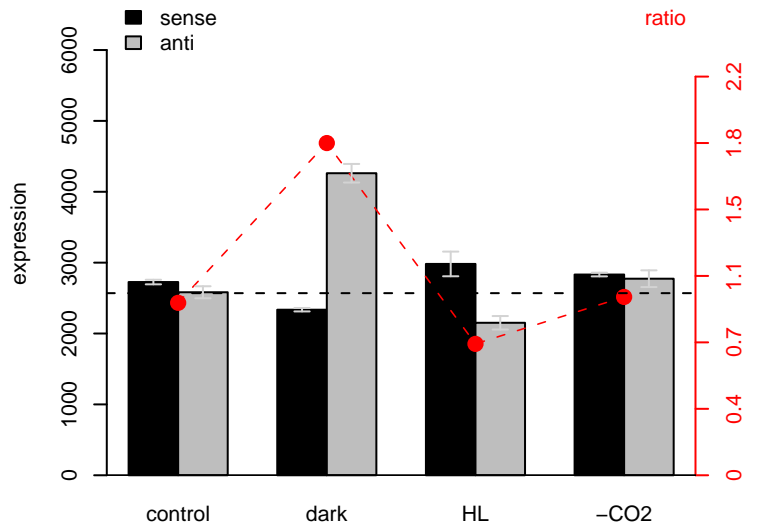
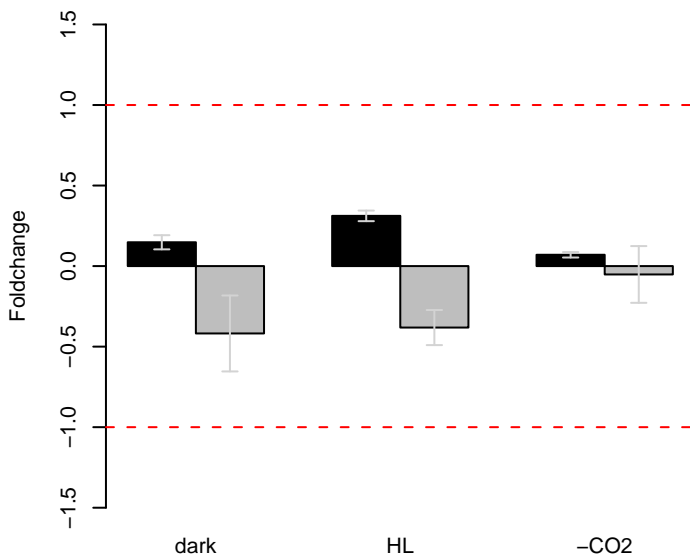
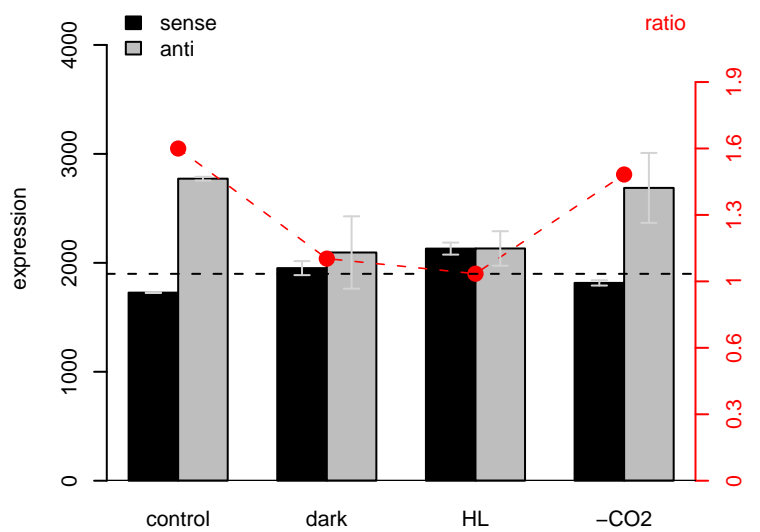


**genome\_2581**

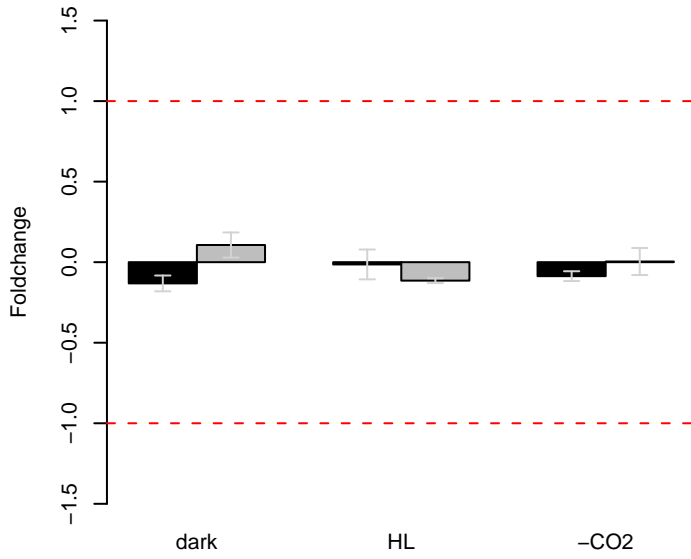
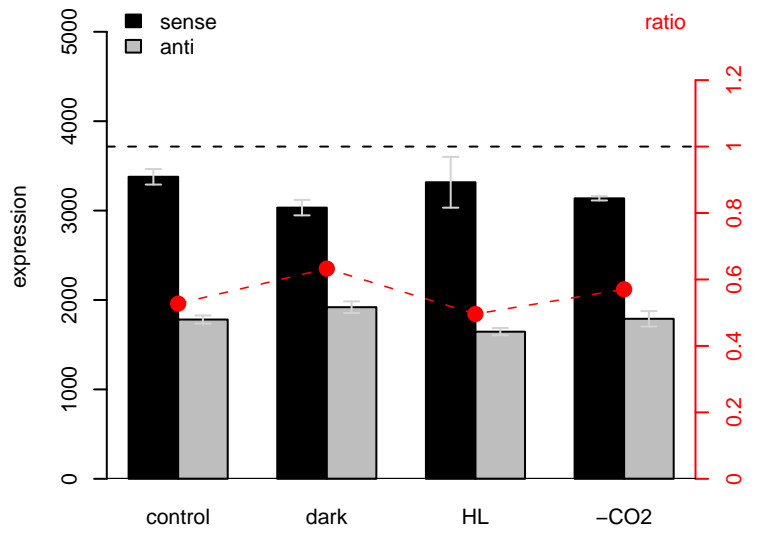
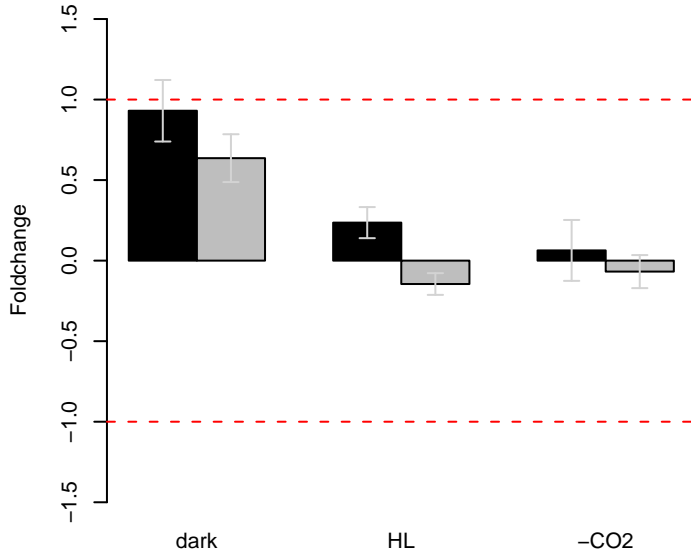
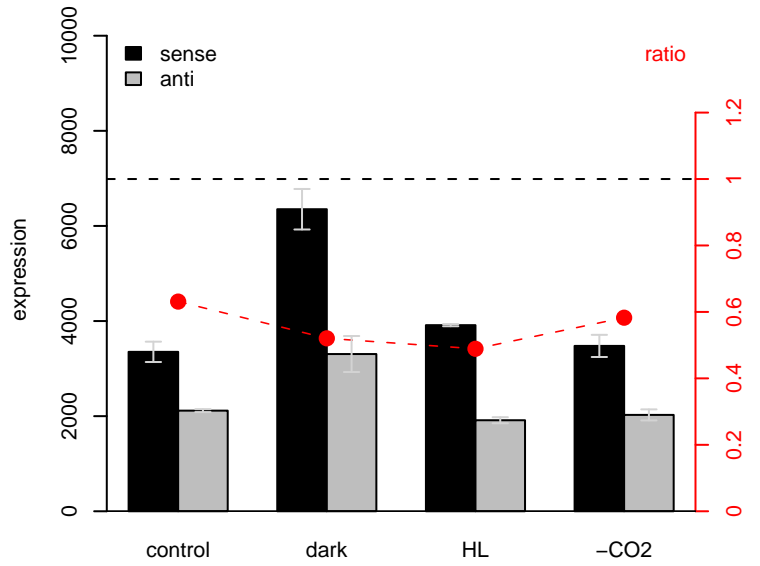
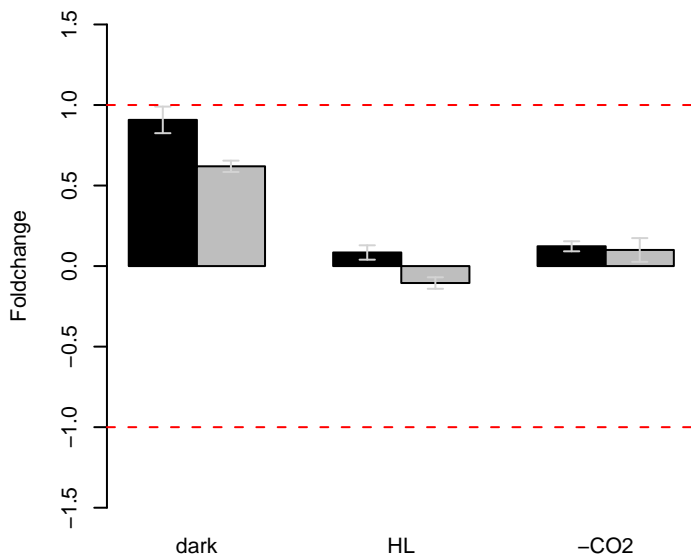
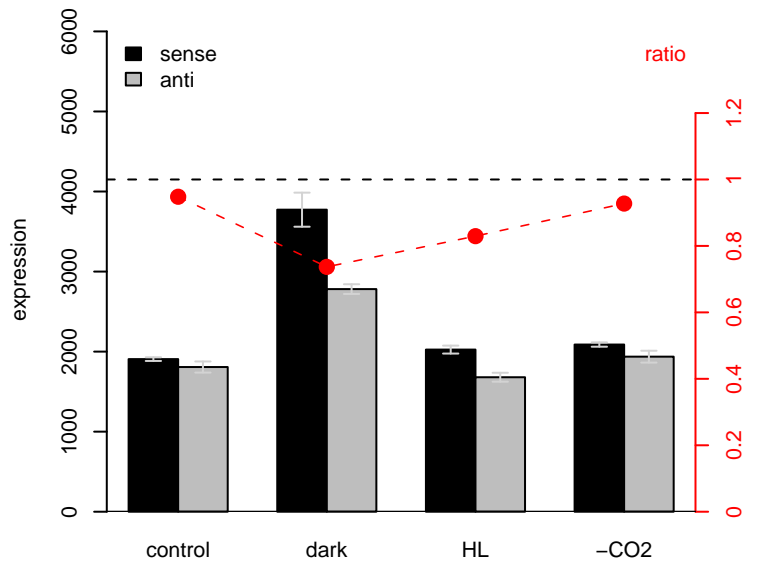


**sll1885****genome\_2583****engA(slr1974)****genome\_2585****argJ(sll1883)****genome\_2589**

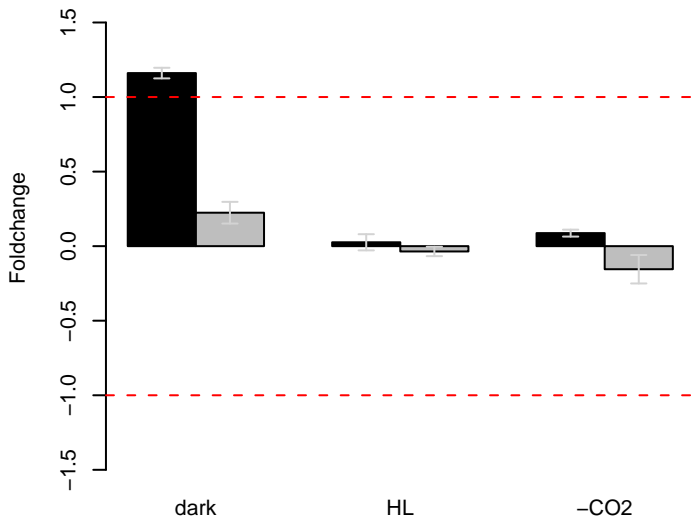
**sll1878****genome\_2596****slr1978****genome\_2599****sll1040****genome\_260**

**slr1982****genome\_2611****cbaB(sll1869)****genome\_2615****dnaG(sll1868)****genome\_2620**

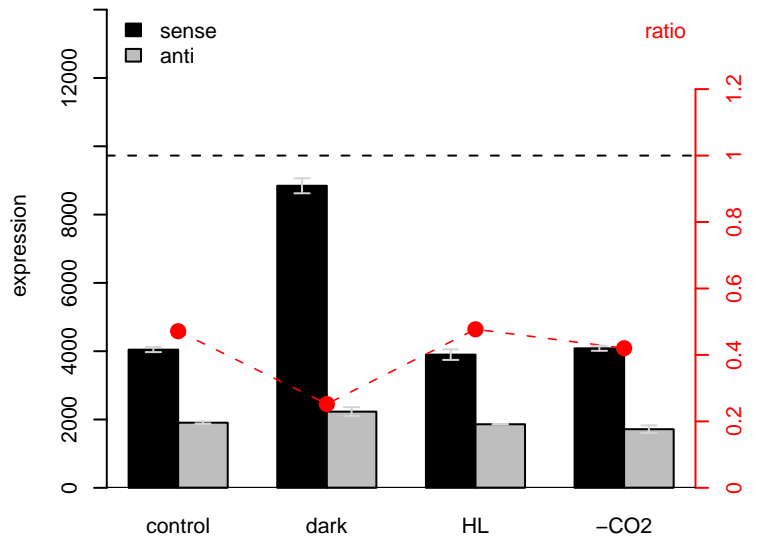


**sll1866****genome\_2624****ssl2717****genome\_2628****sll1389****genome\_2629**

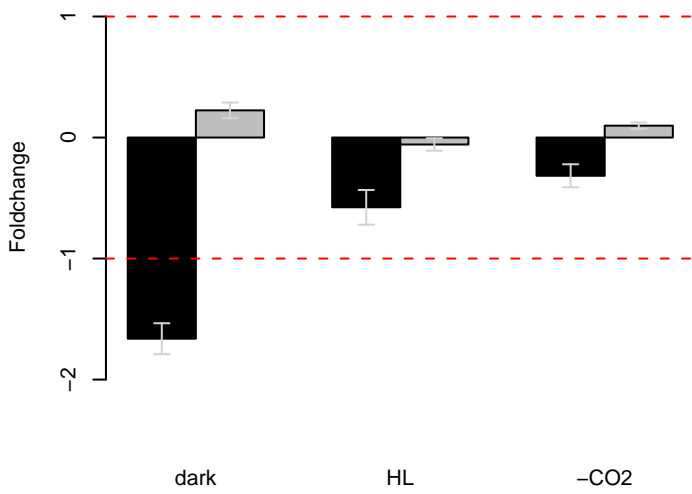
**sll1388**



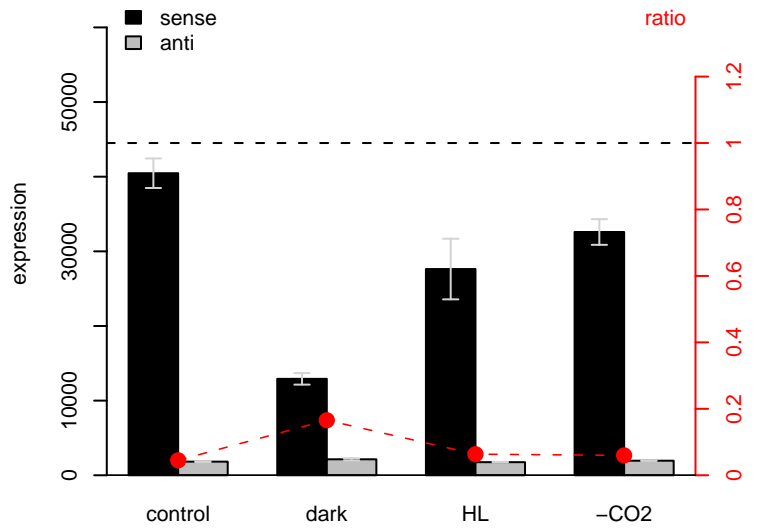
**genome\_2632**



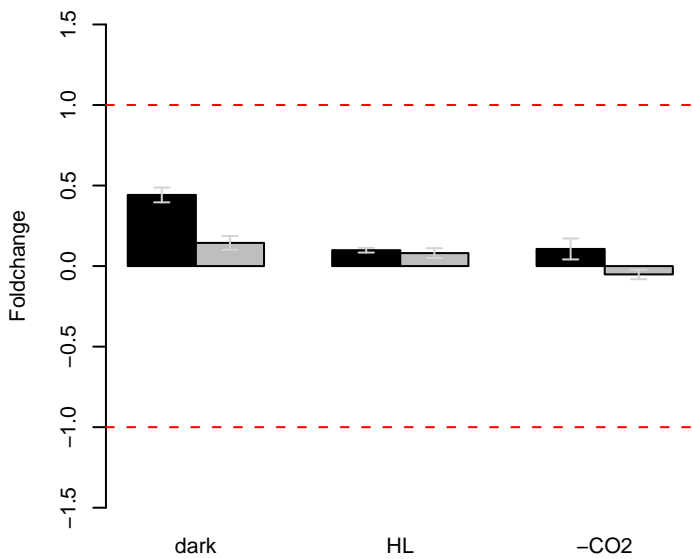
**petG(smr0010)**



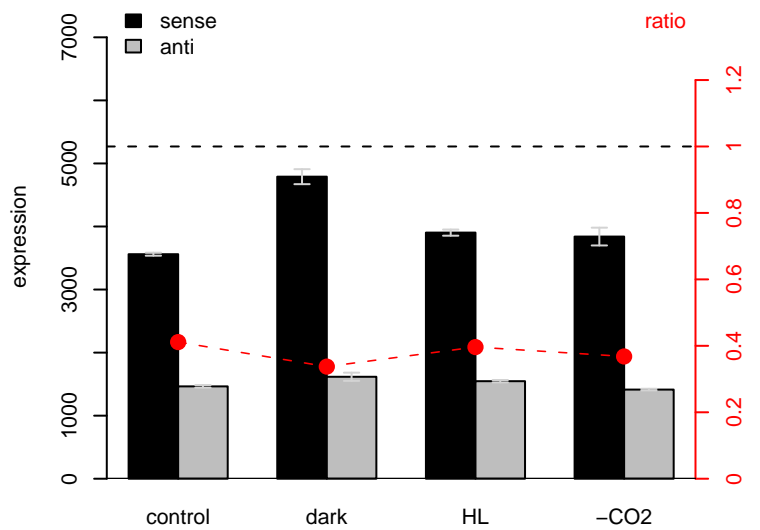
**genome\_2634**



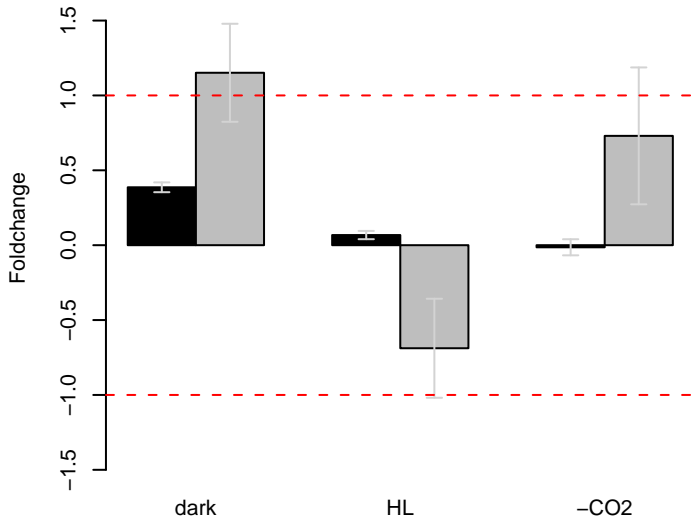
**sll1387**



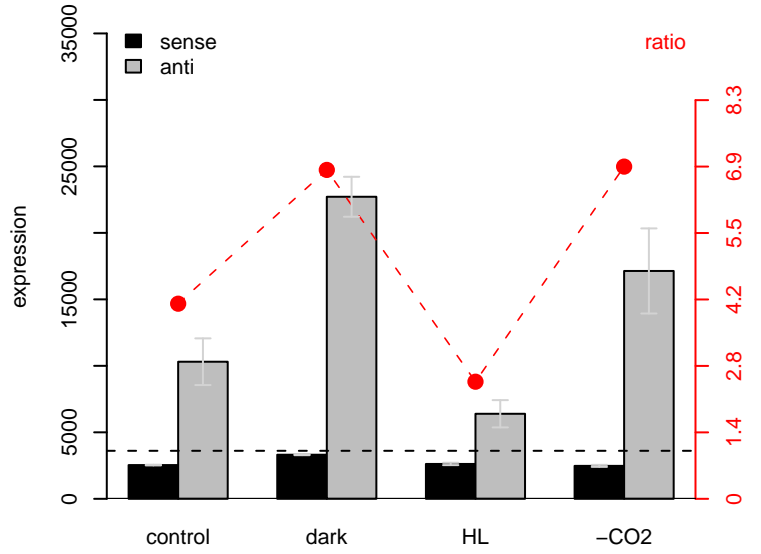
**genome\_2636**



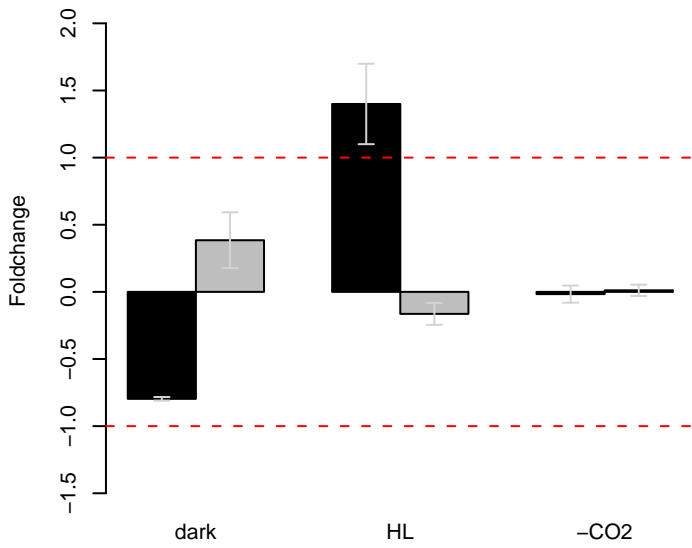
**slr1467**



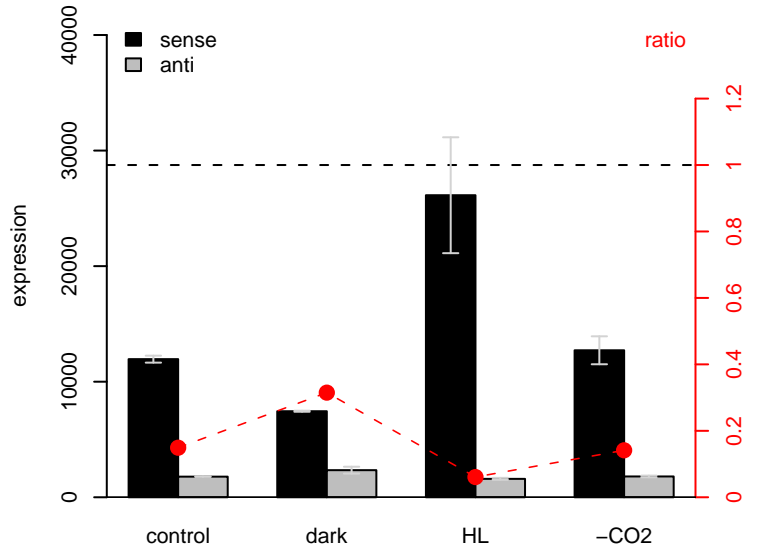
**genome\_2639**



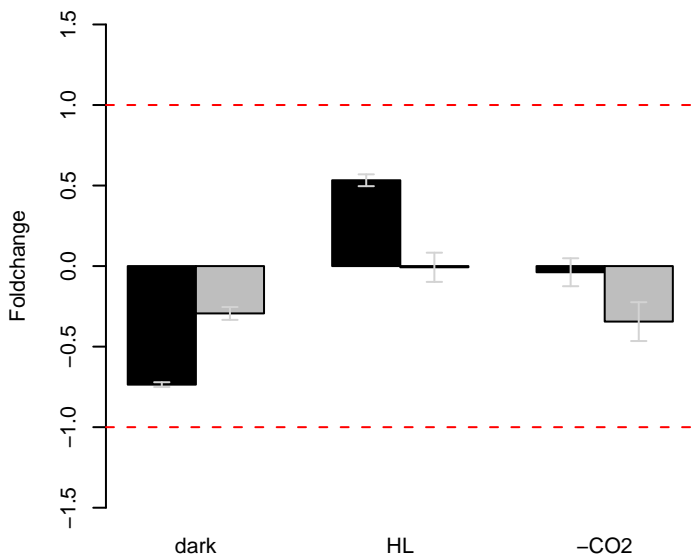
**rnpA(slr1469)**



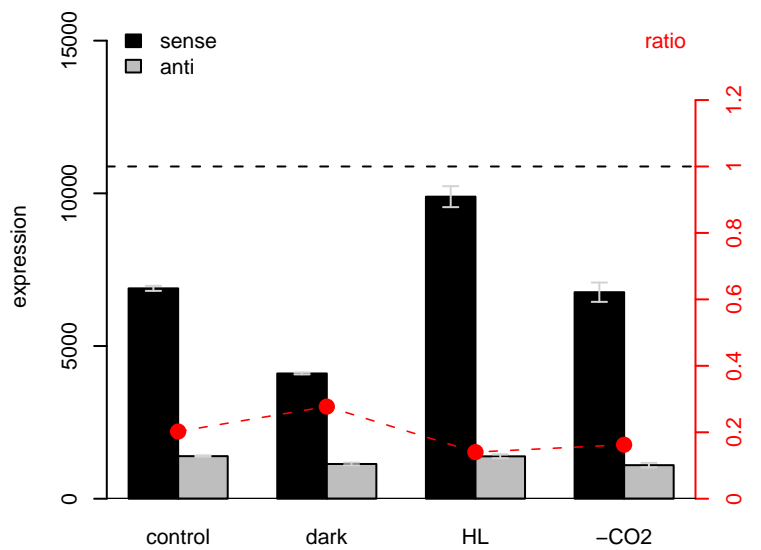
**genome\_2643**

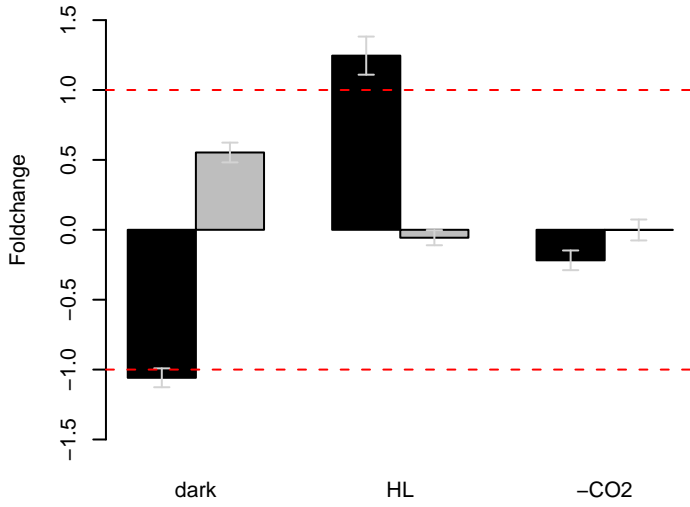
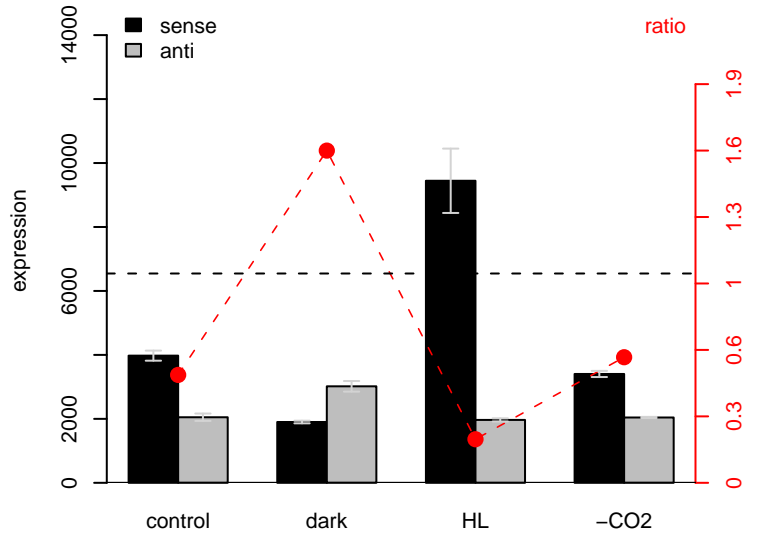
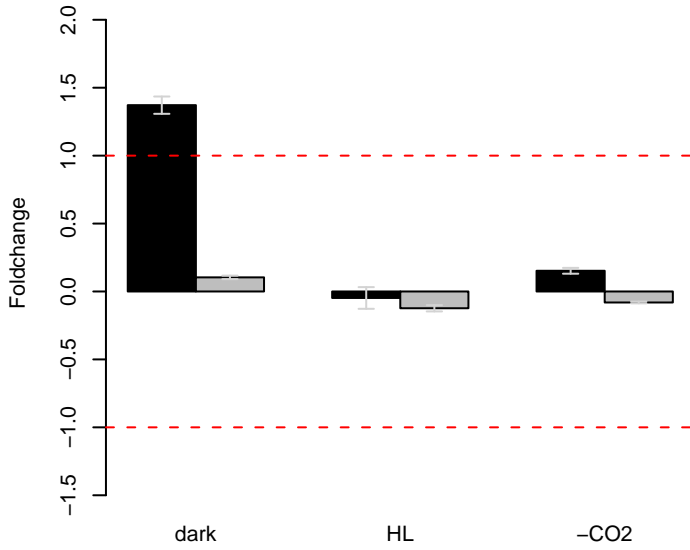
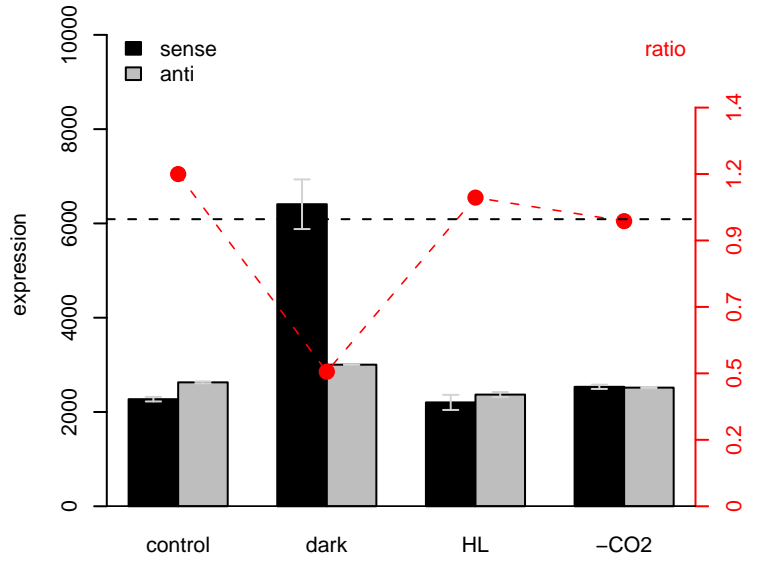
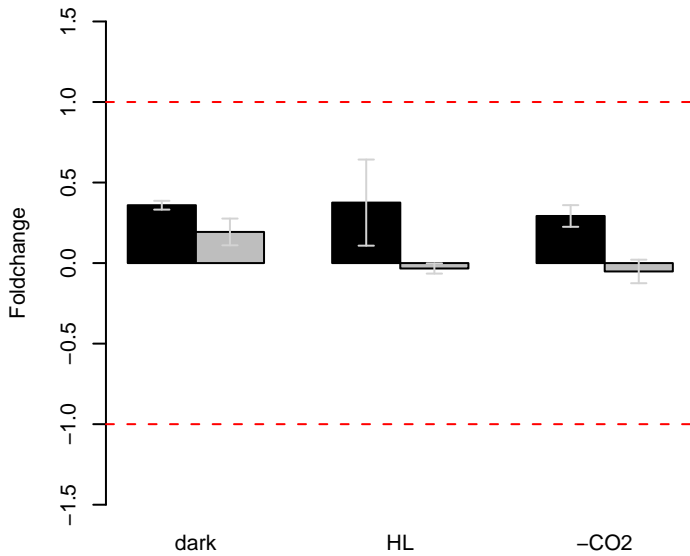
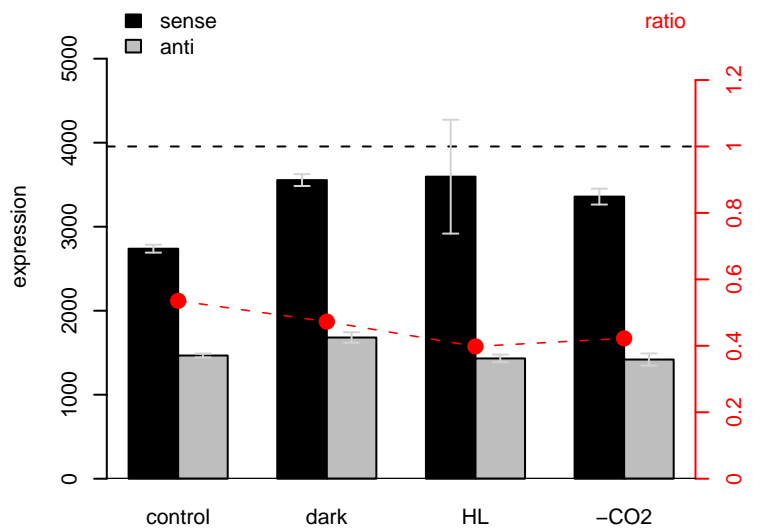


**slr1471**

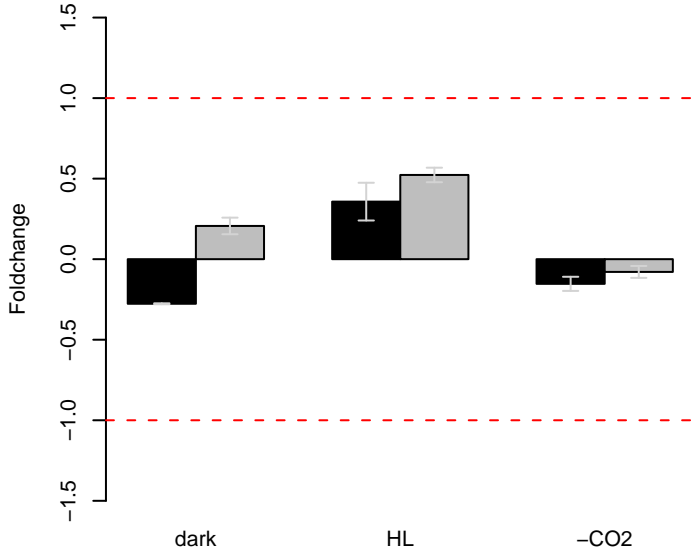


**genome\_2646**

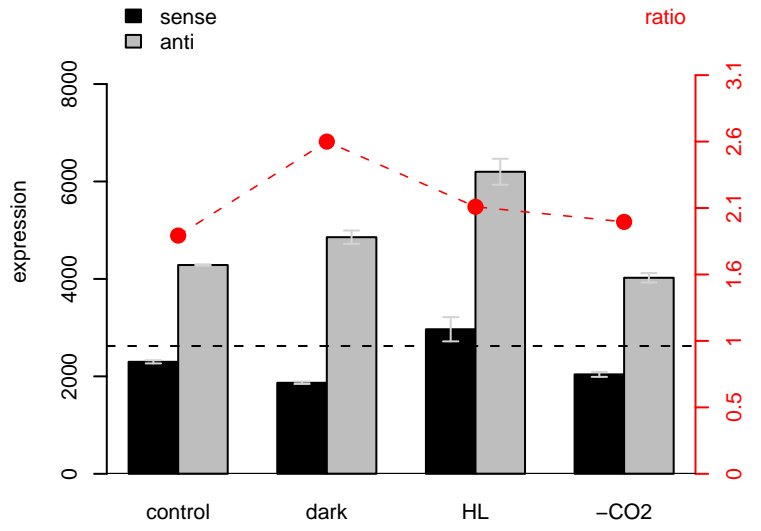


**slr1472****genome\_2648****slr1094****genome\_264****slr11380****genome\_2657**

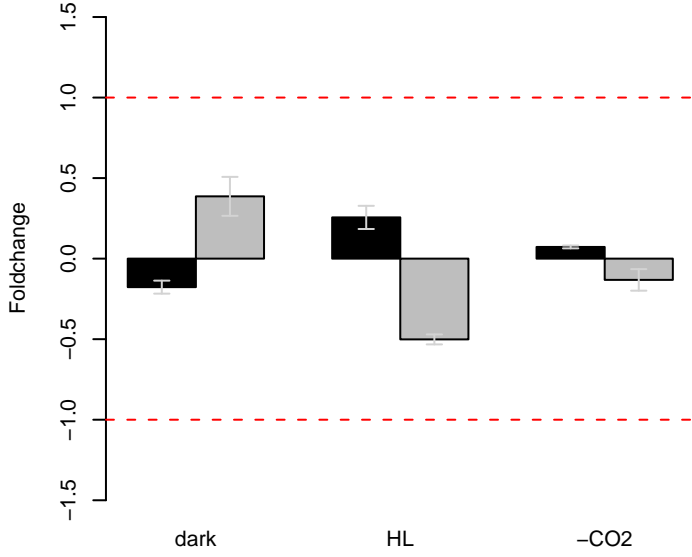
**pyrB(slr1476)**



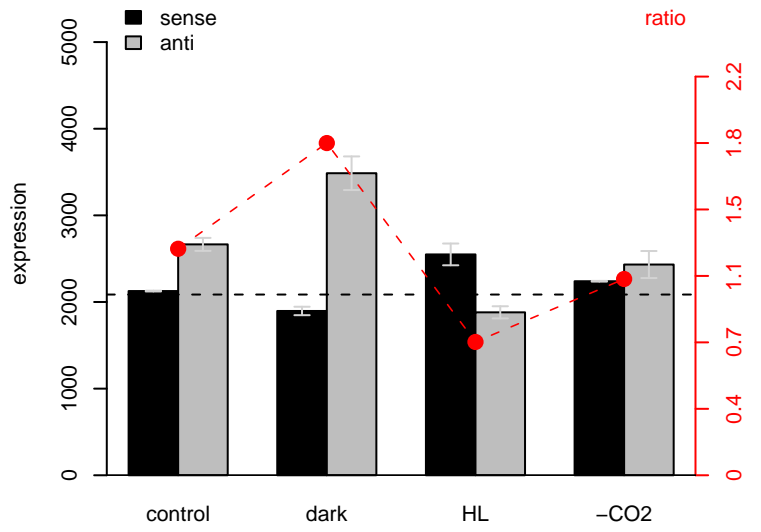
**genome\_2659**



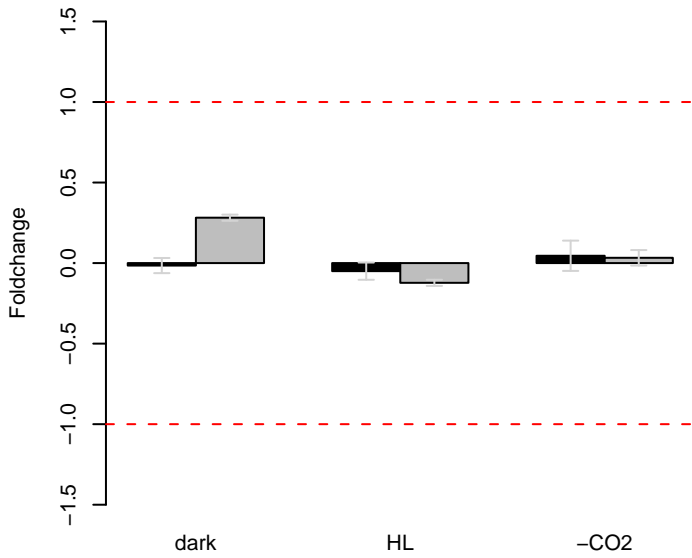
**sll1378**



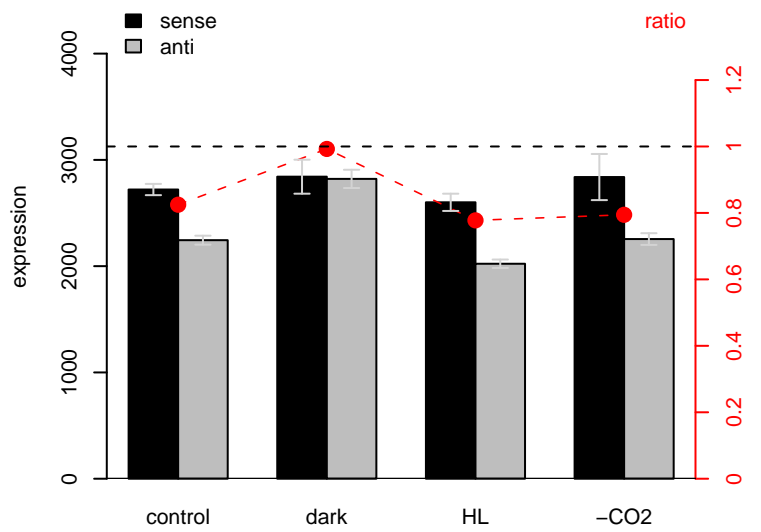
**genome\_2662**

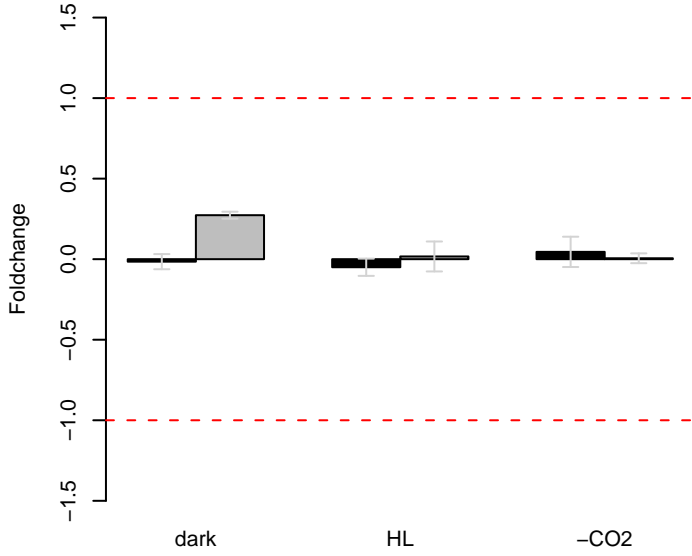
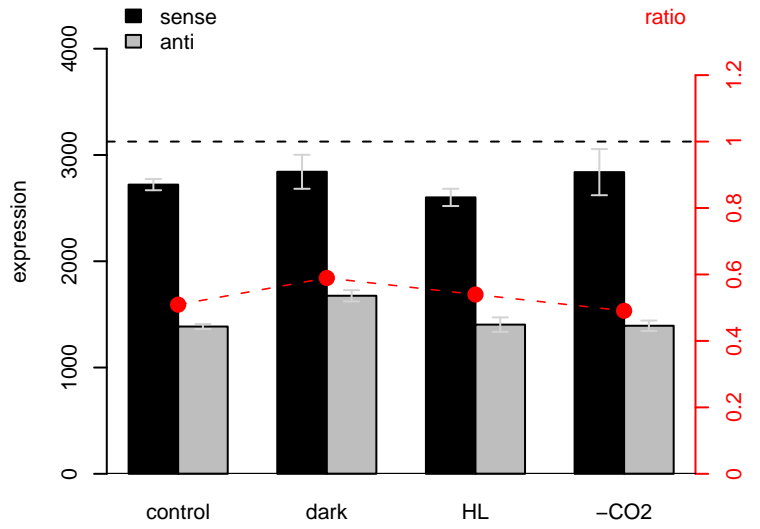
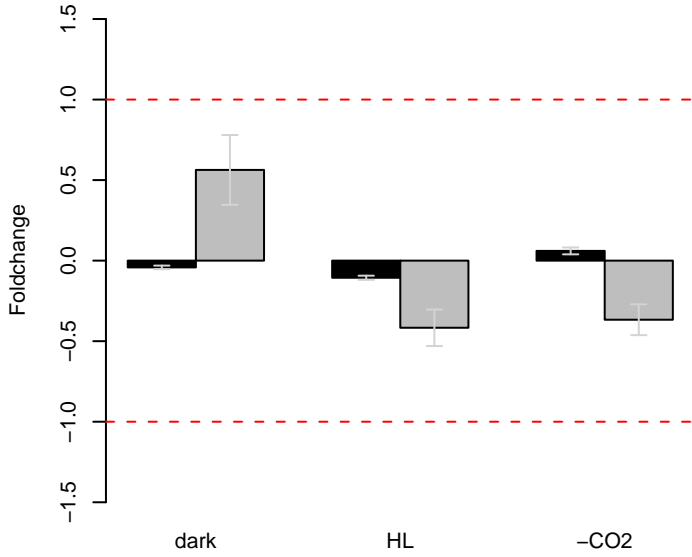
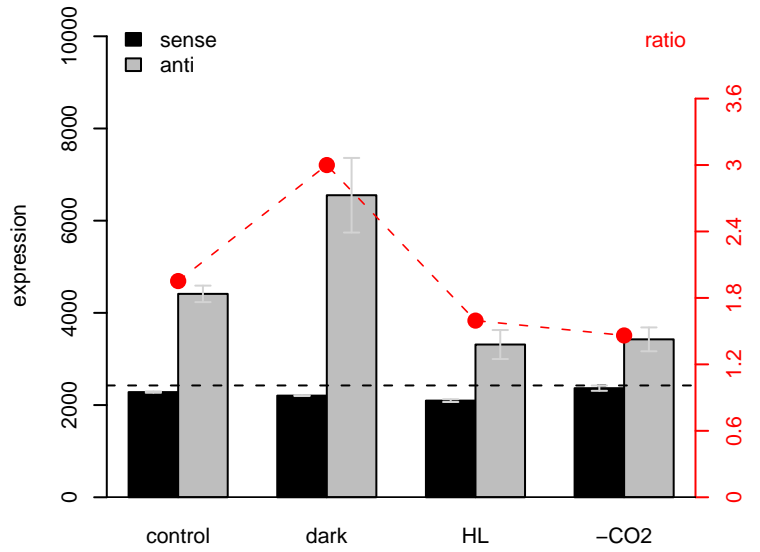
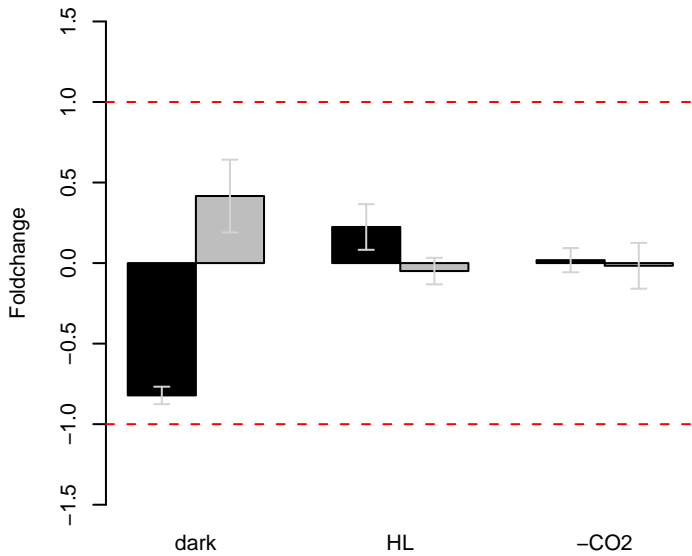
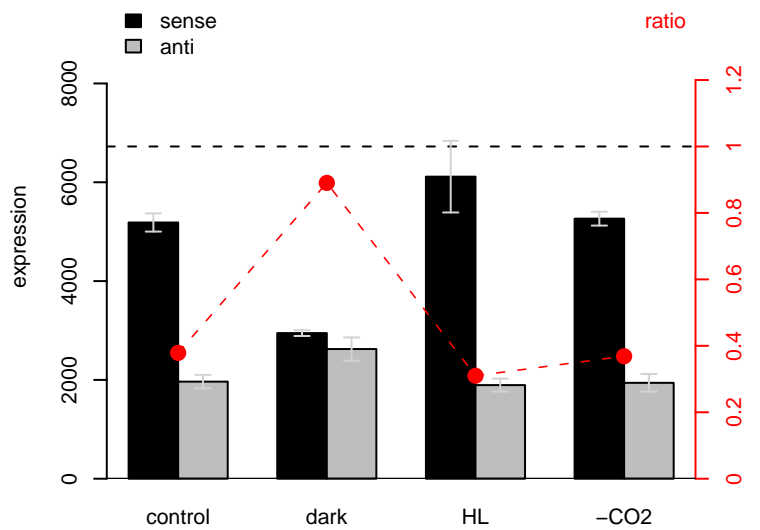


**melB(sll1374)**

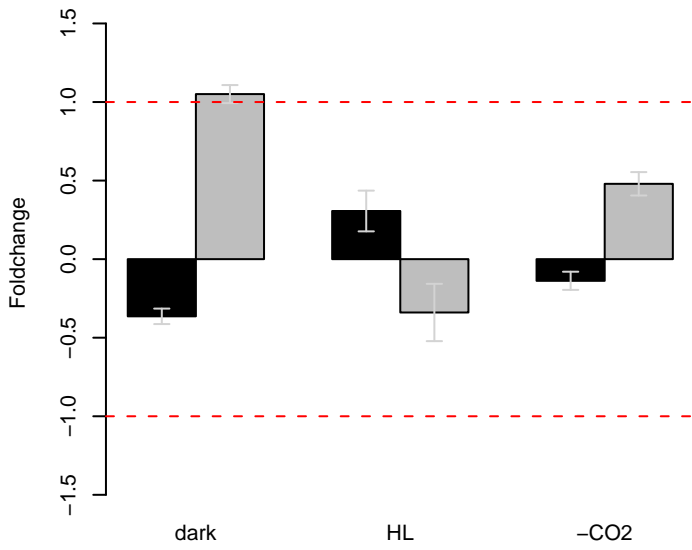


**genome\_2667**

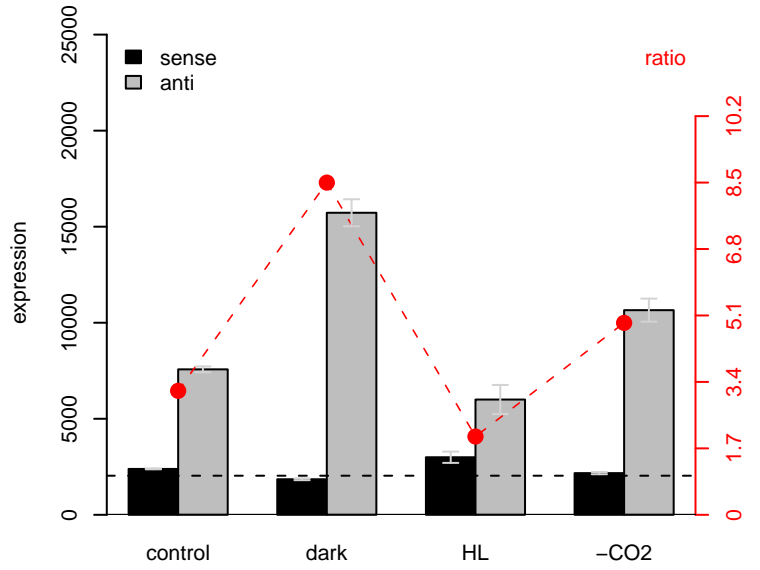


**melB(sll1374)****genome\_2667****sll1369****genome\_2678****hlyD(sll1181)****genome\_2681**

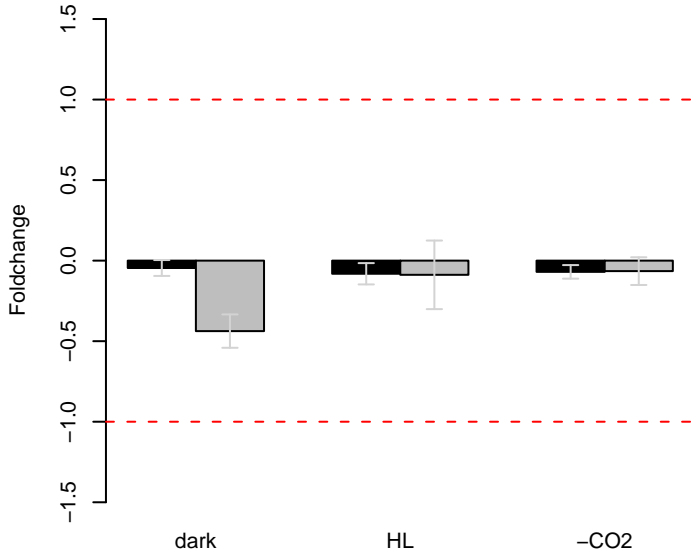
**slI1178**



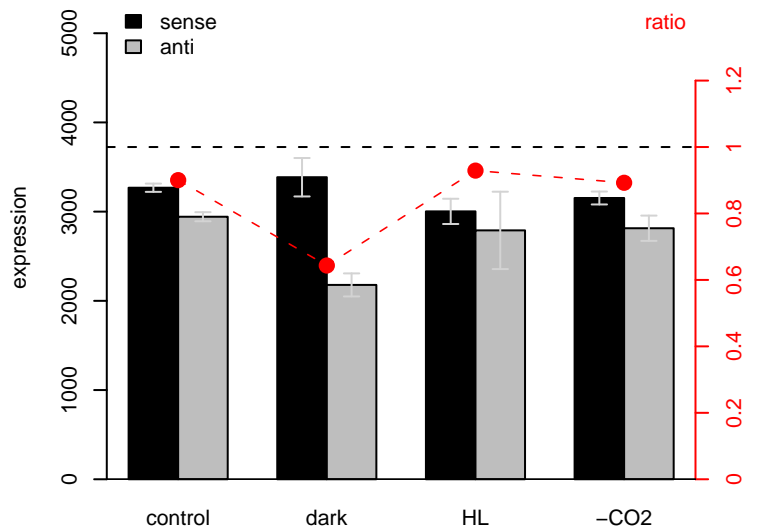
**genome\_2686**



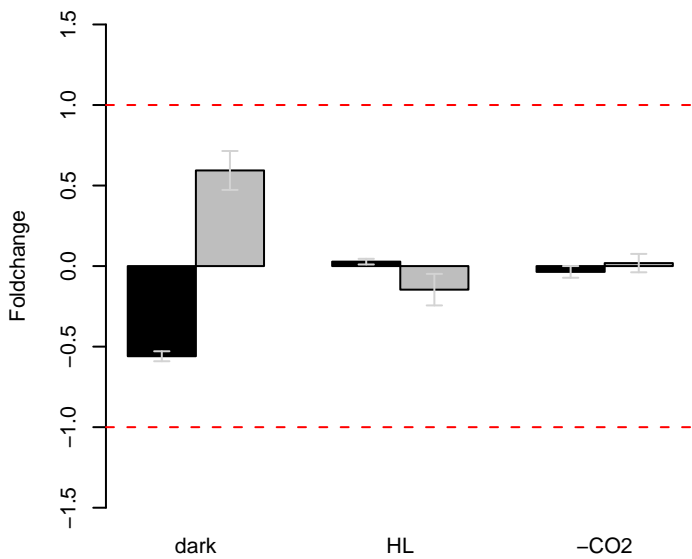
**slr1266**



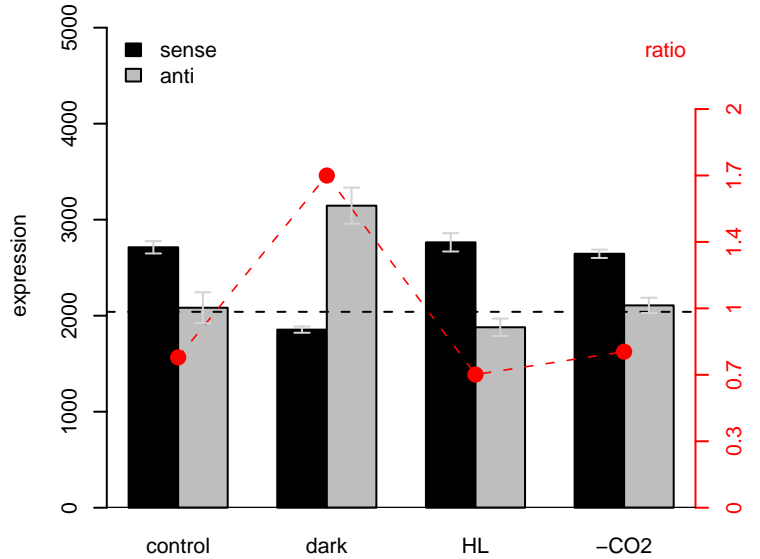
**genome\_2689**



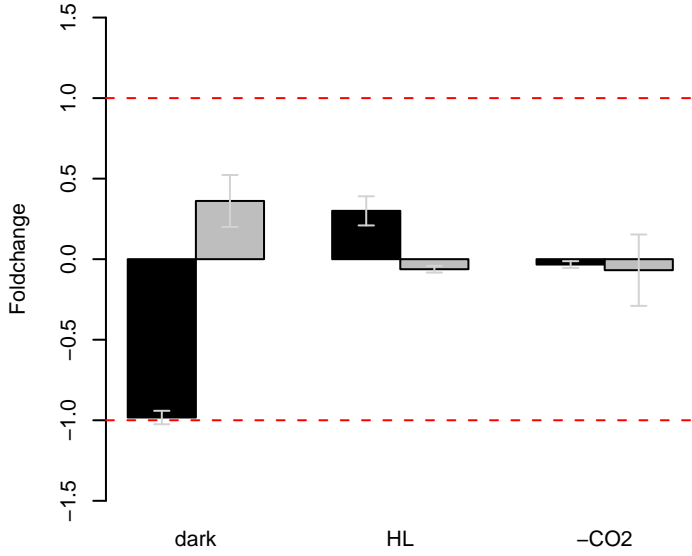
**mrdB(slI1267)**



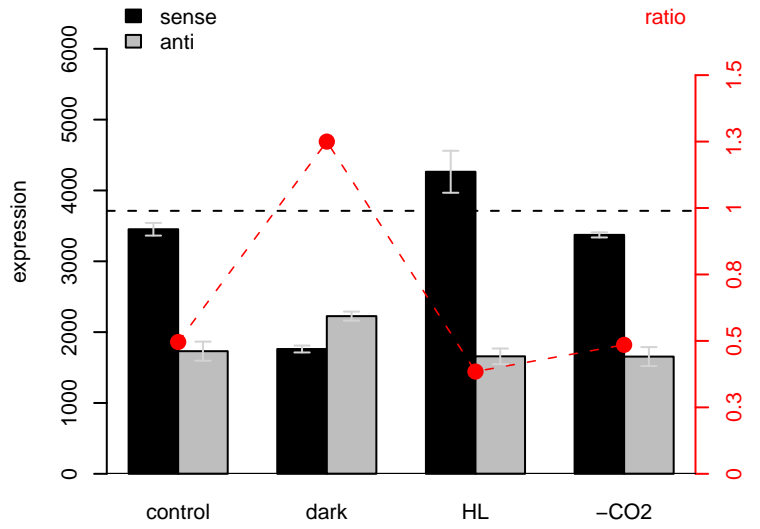
**genome\_2690**



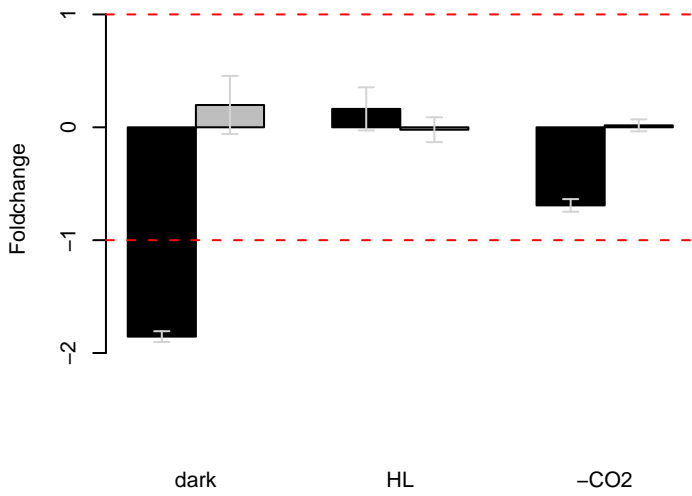
**slr1275**



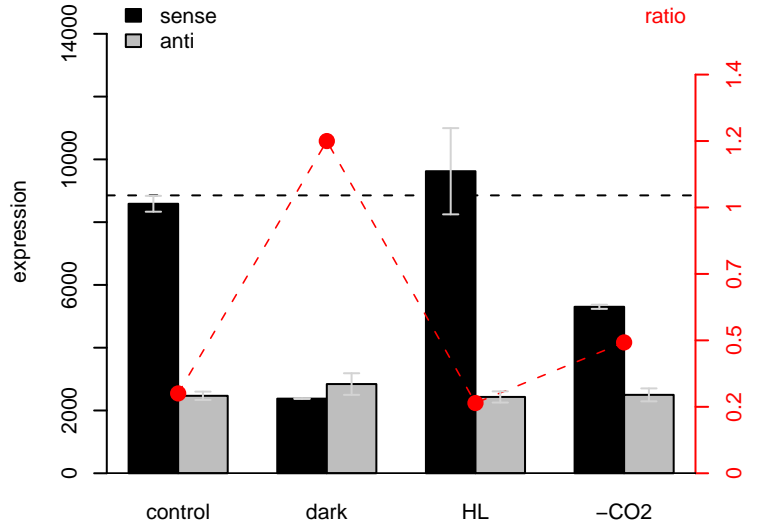
**genome\_2702**



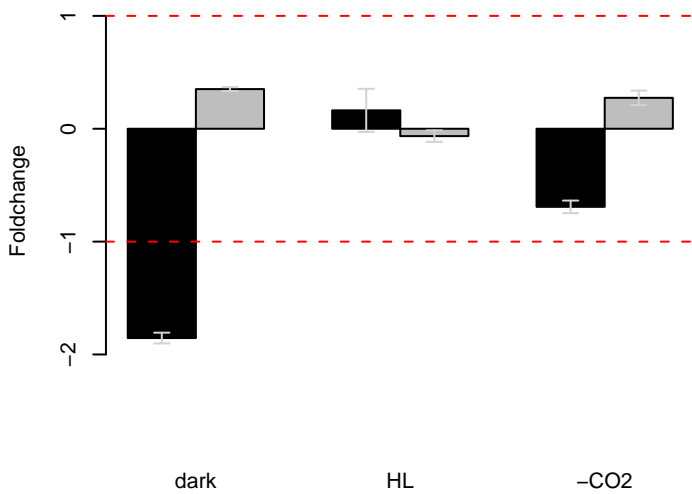
**gspD(slr1277)**



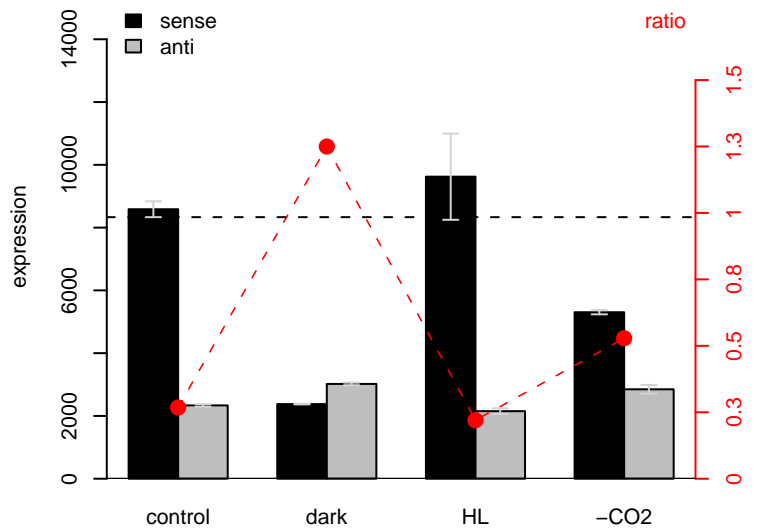
**genome\_2705**



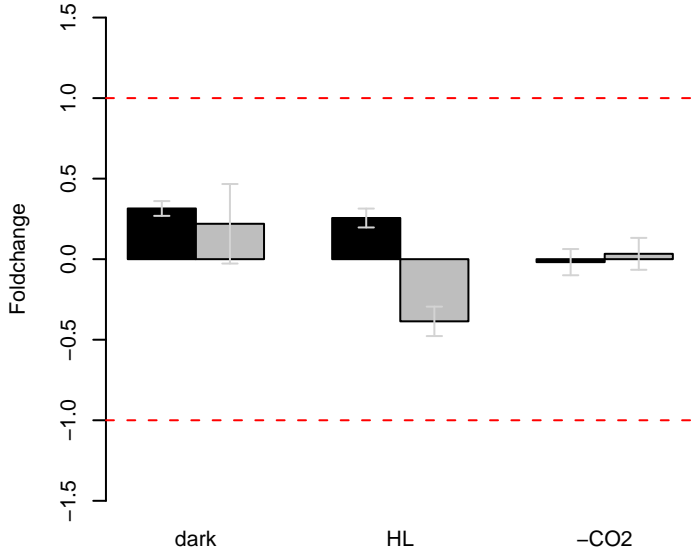
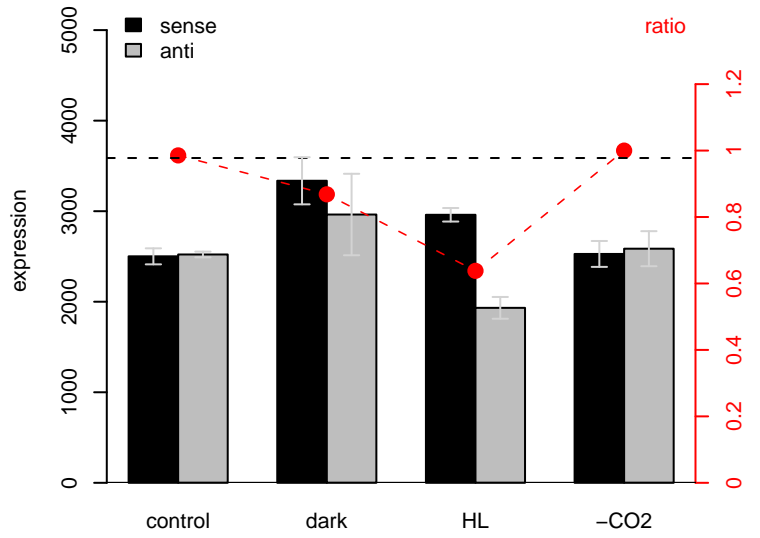
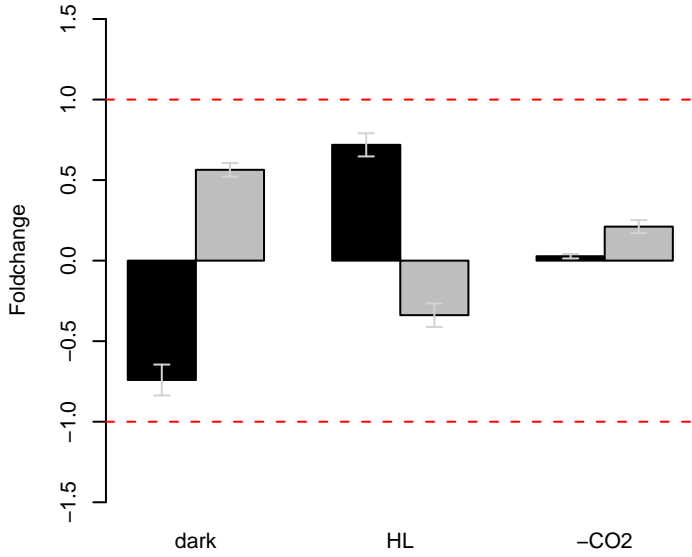
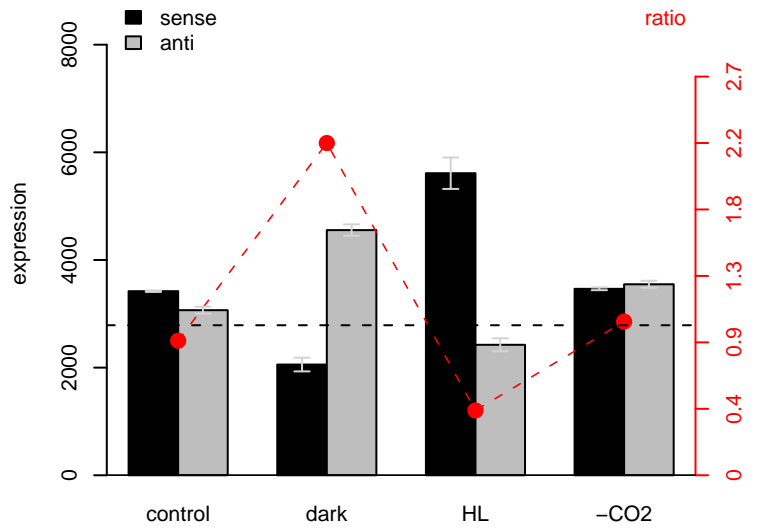
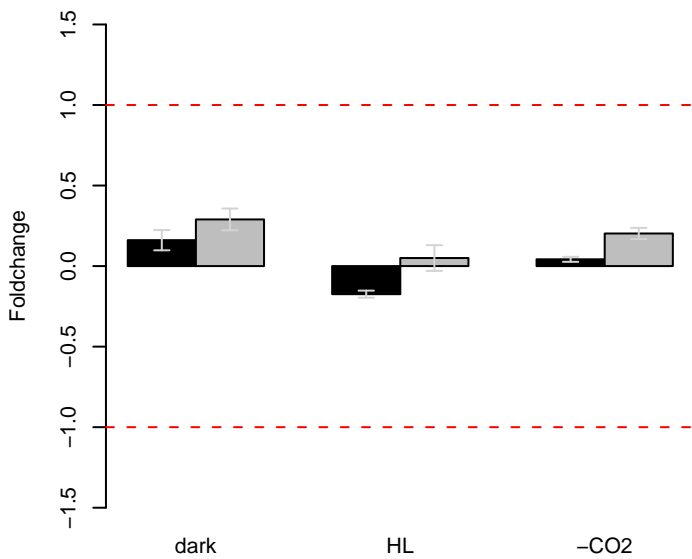
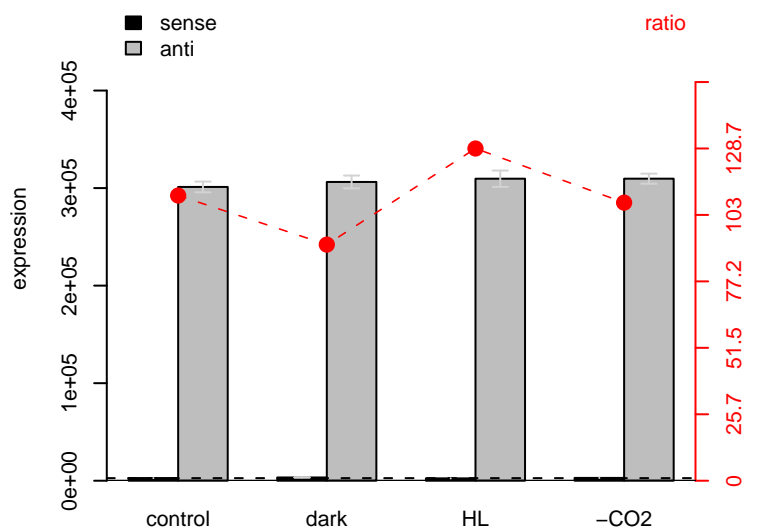
**gspD(slr1277)**

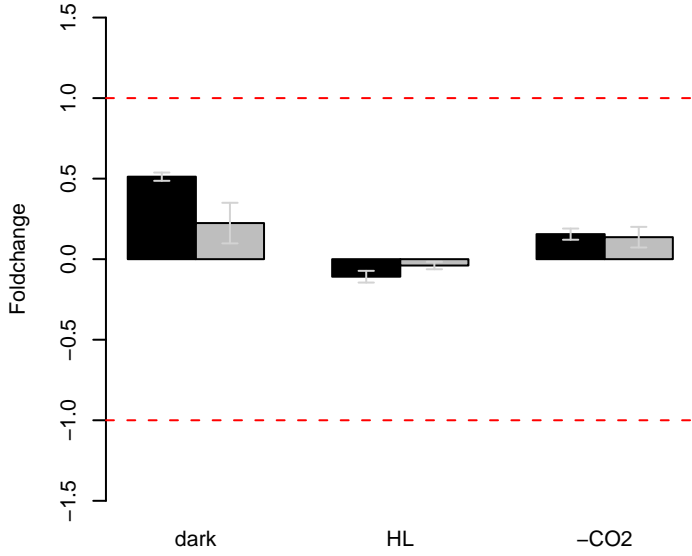
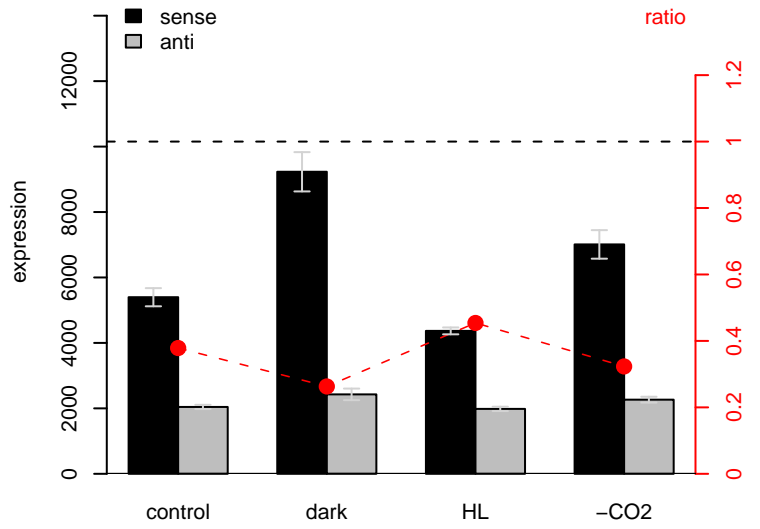
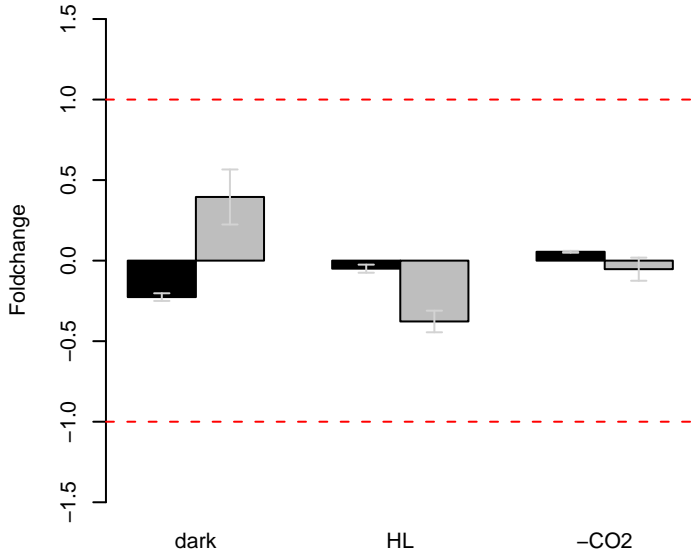
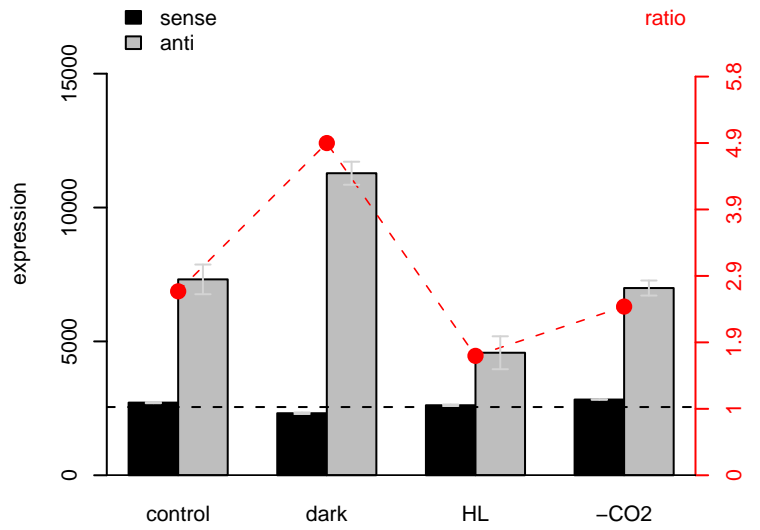
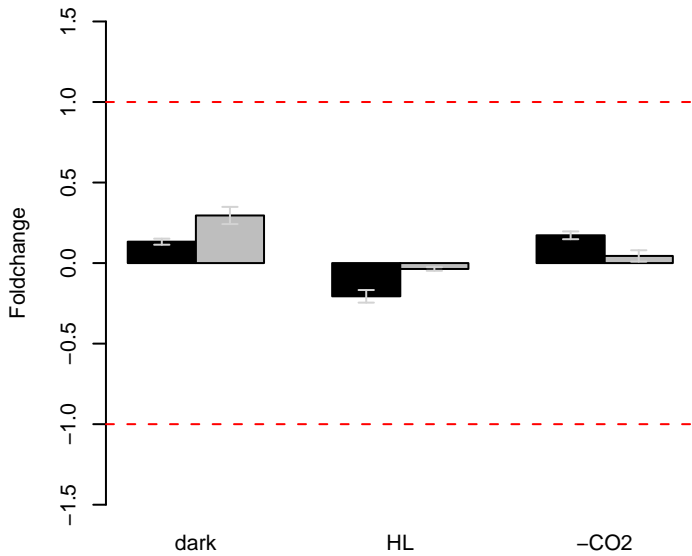
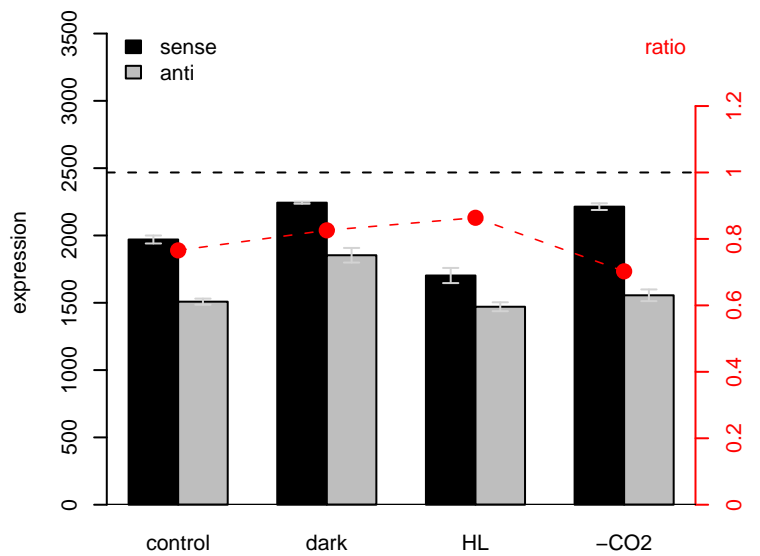


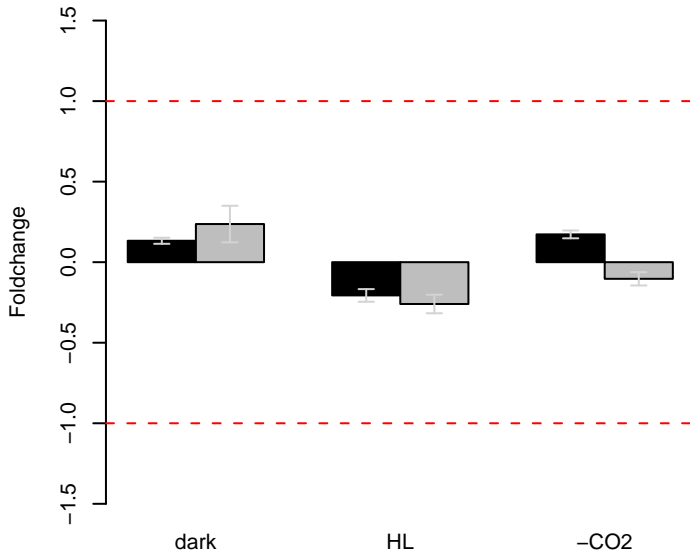
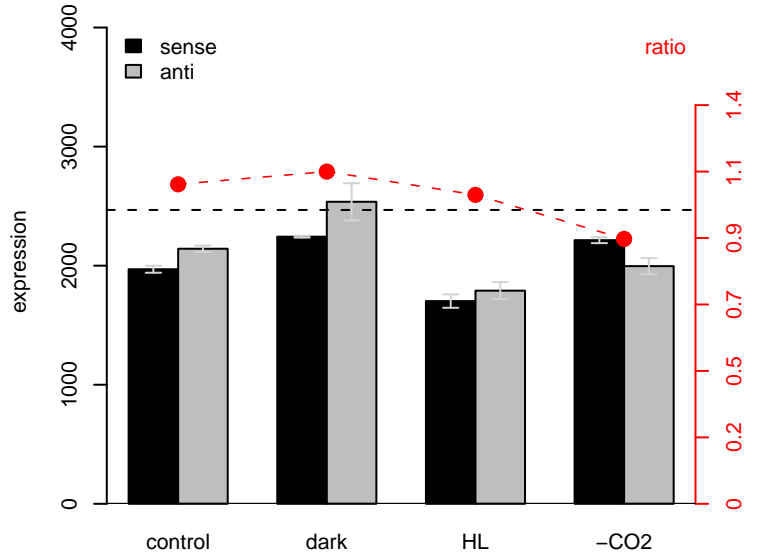
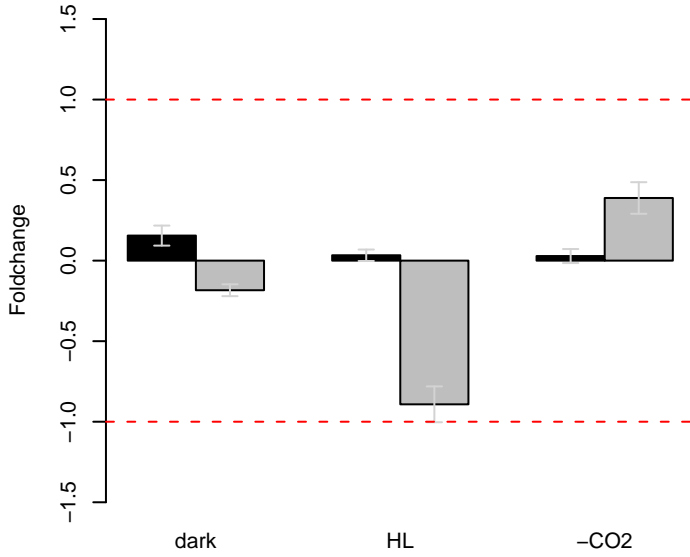
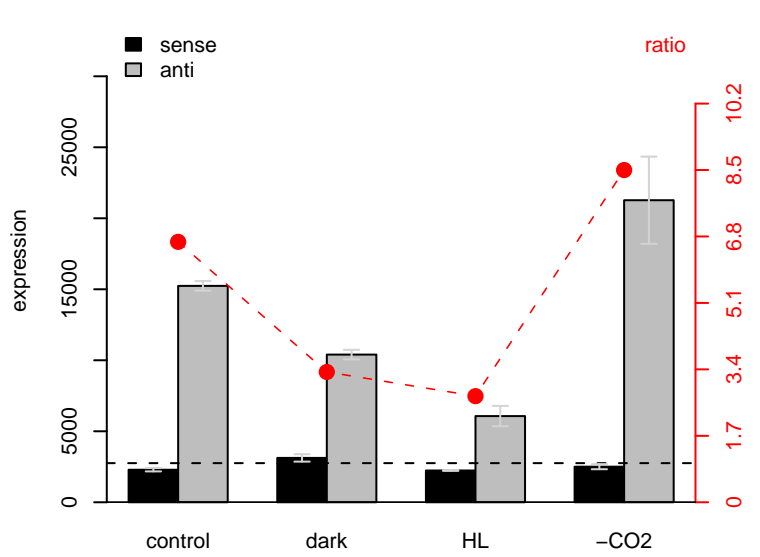
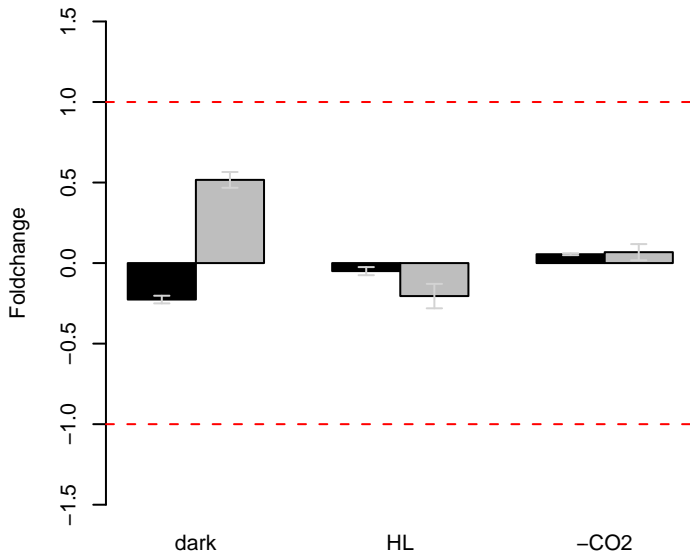
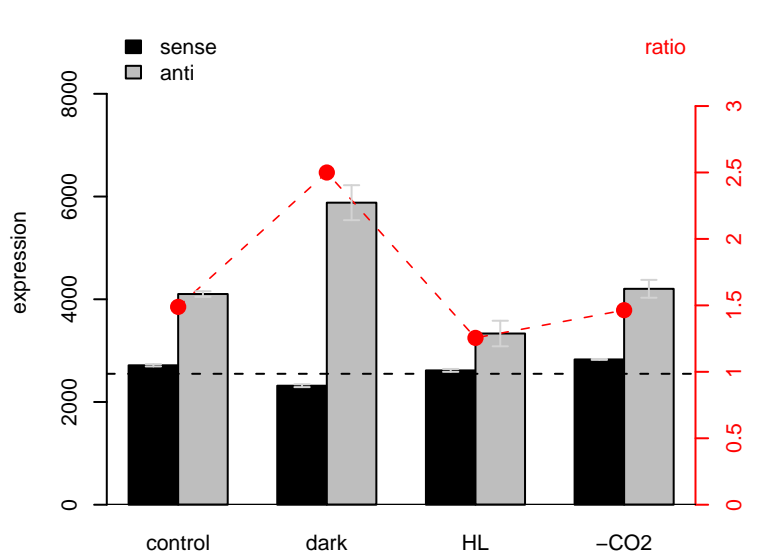
**genome\_2705**



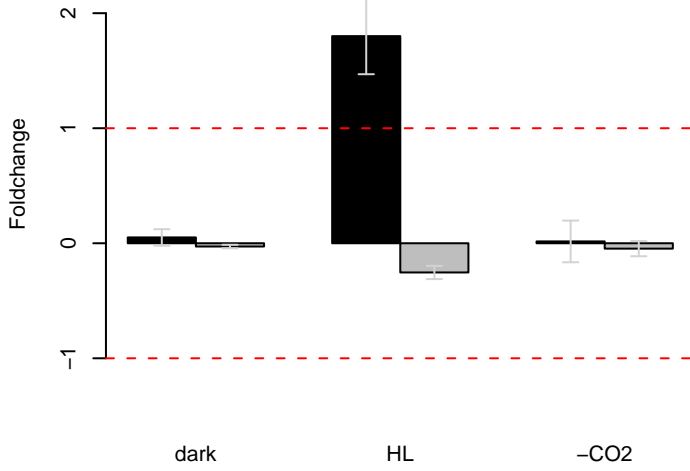


**ubiX(slr1099)****genome\_270****thrC(sll1172)****genome\_2711****sll1166****genome\_2731**

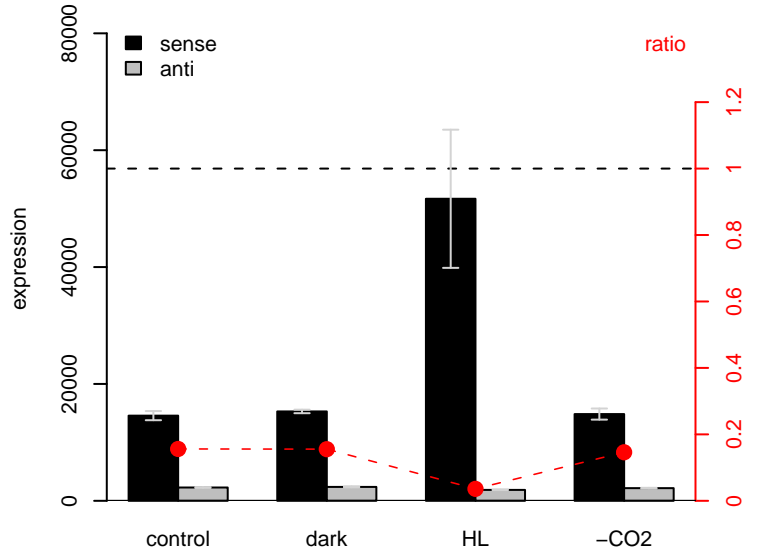
**sll1446****genome\_2733****slr1102****genome\_274****sll1433****genome\_2749**

**sl11433****genome\_2749****slr1534****genome\_2755****slr1102****genome\_274**

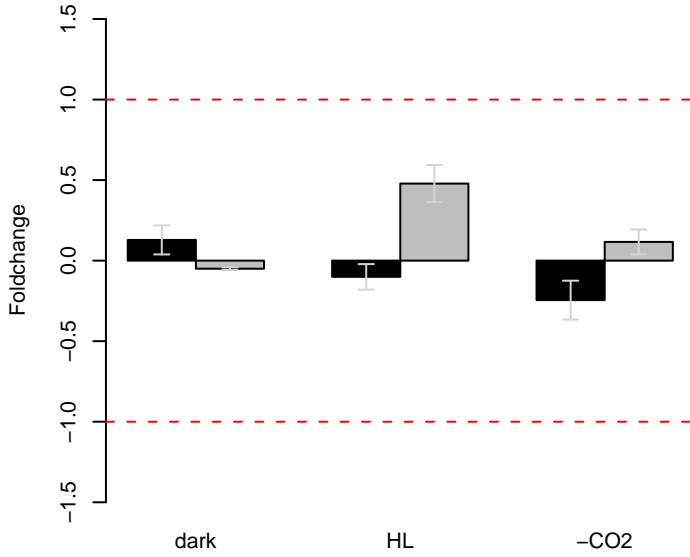
**rpsL(sll1096)**



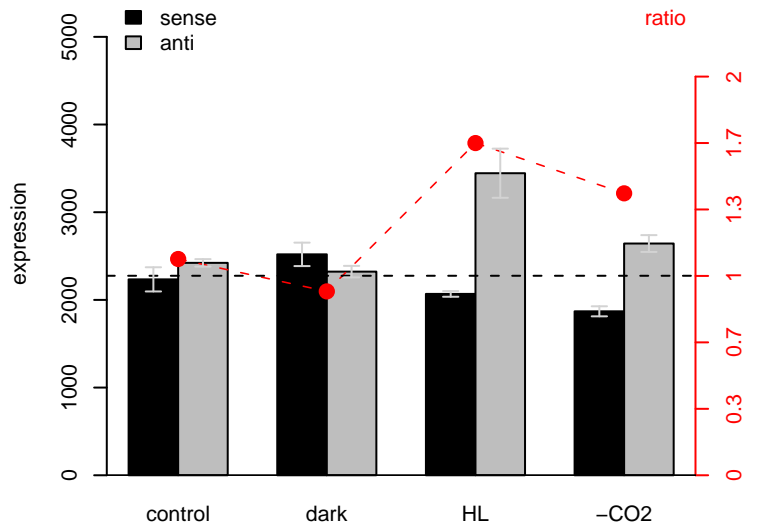
**genome\_2768**



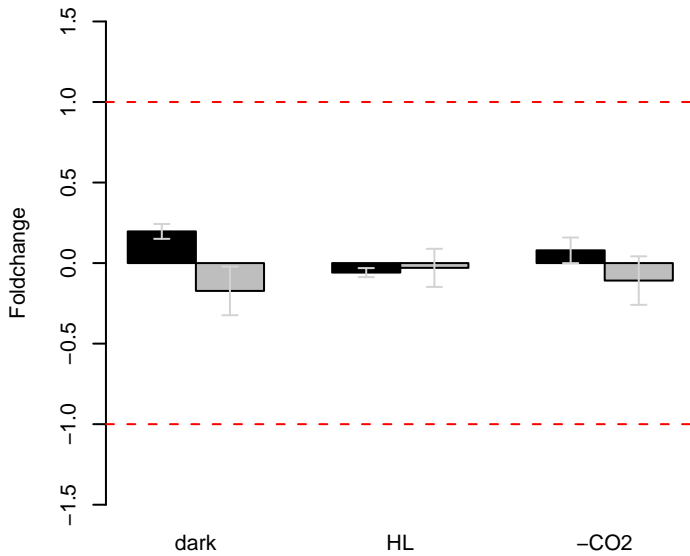
**slr1163**



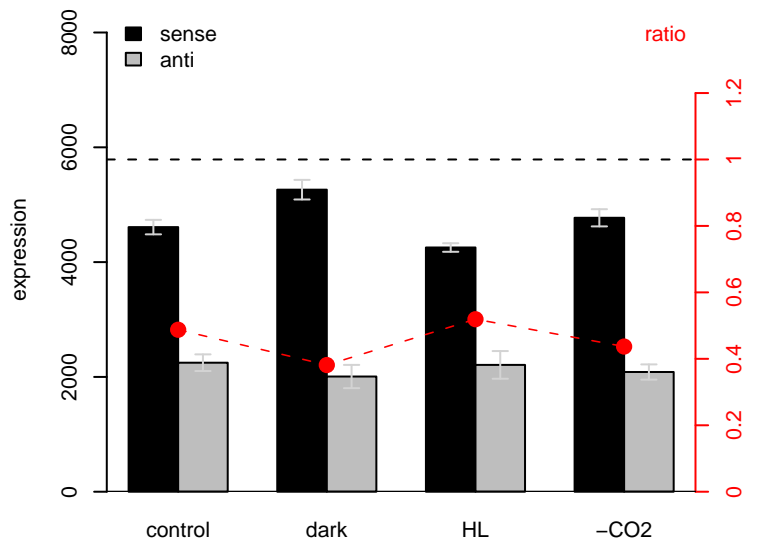
**genome\_2778**



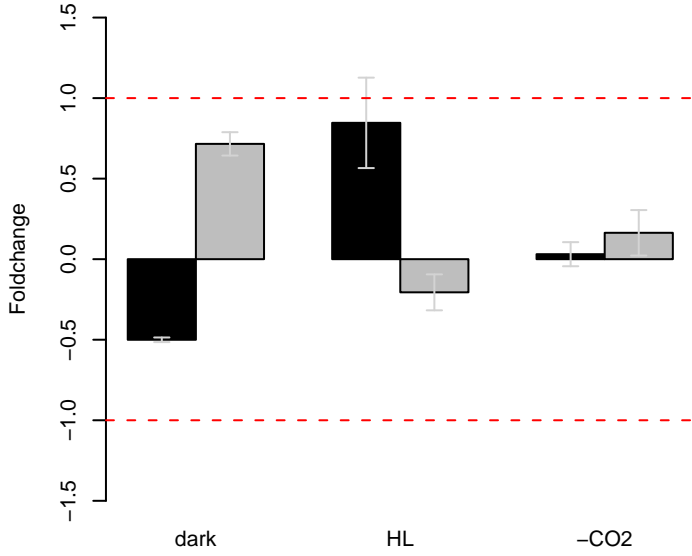
**slr1103**



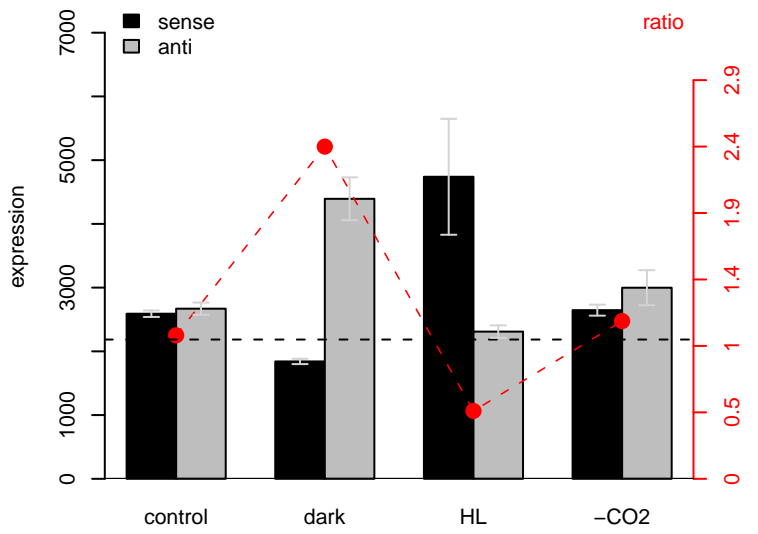
**genome\_277**



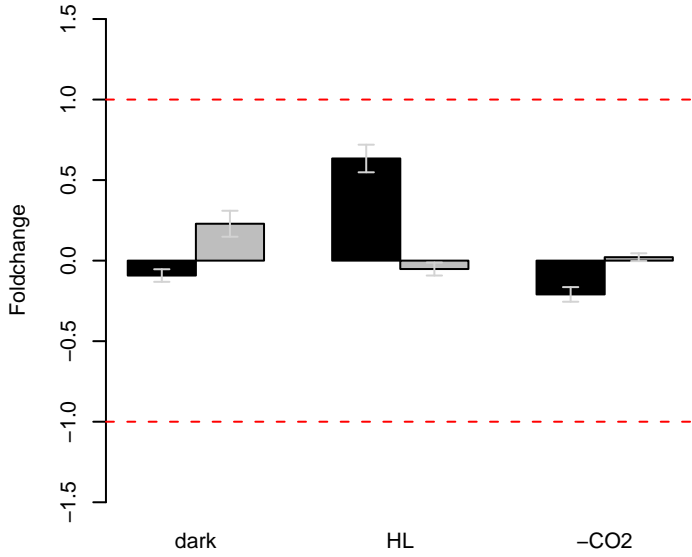
**nrdA(slr1164)**



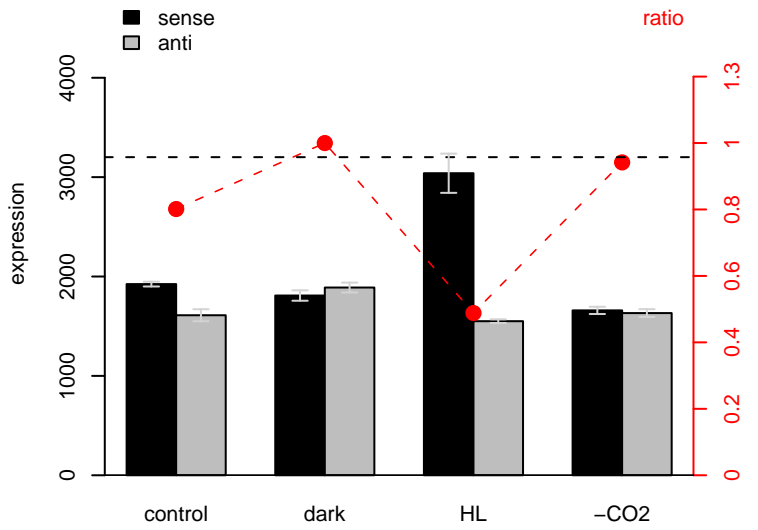
**genome\_2781**



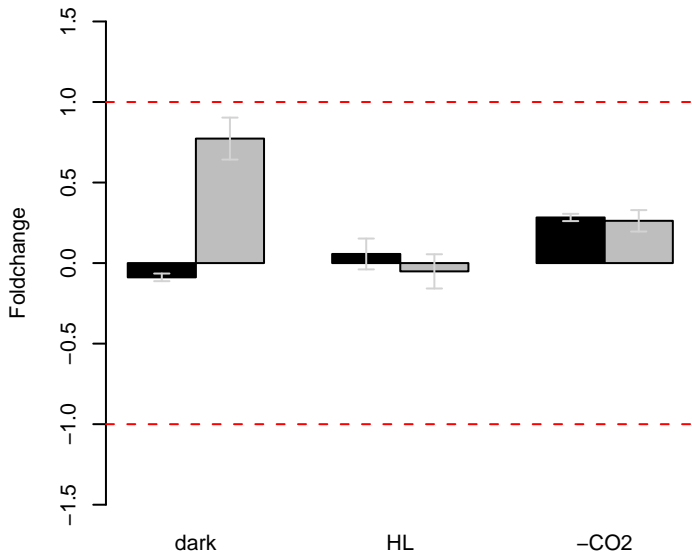
**slr1166**



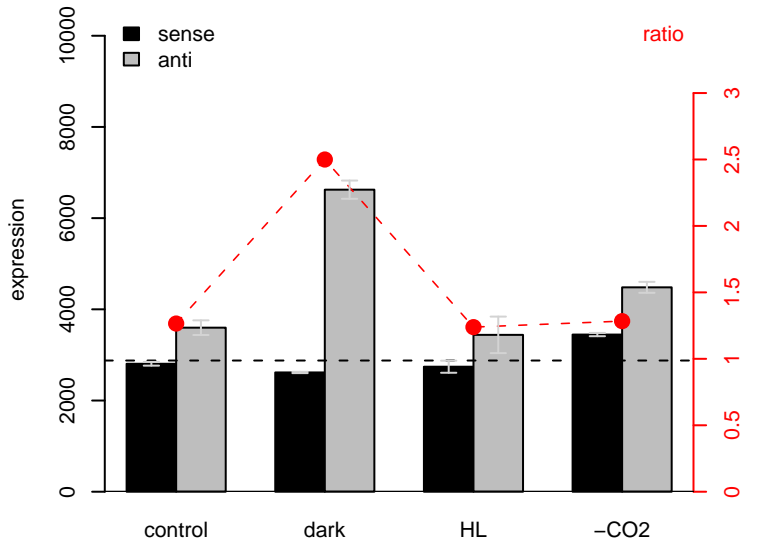
**genome\_2784**



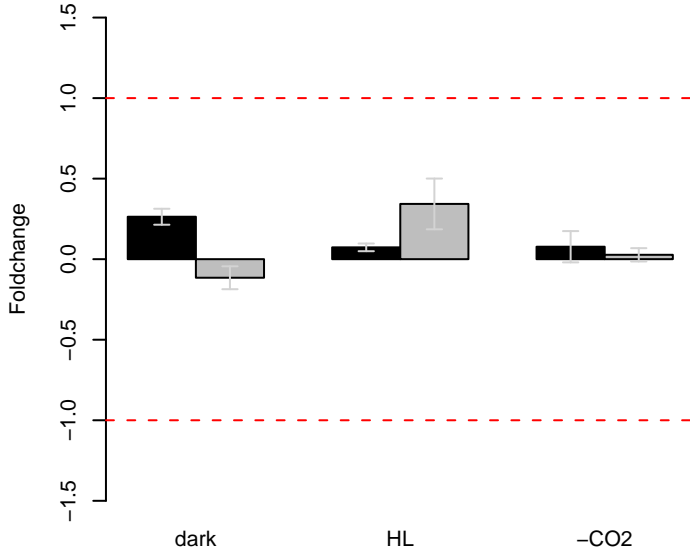
**slr1174**



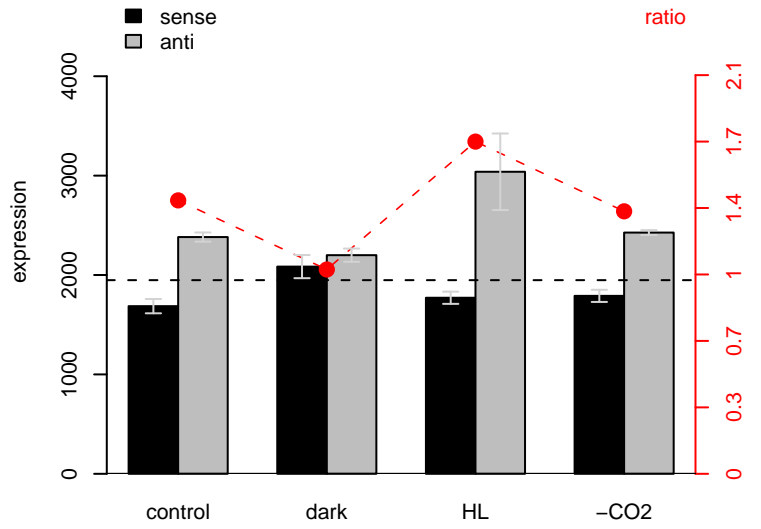
**genome\_2801**



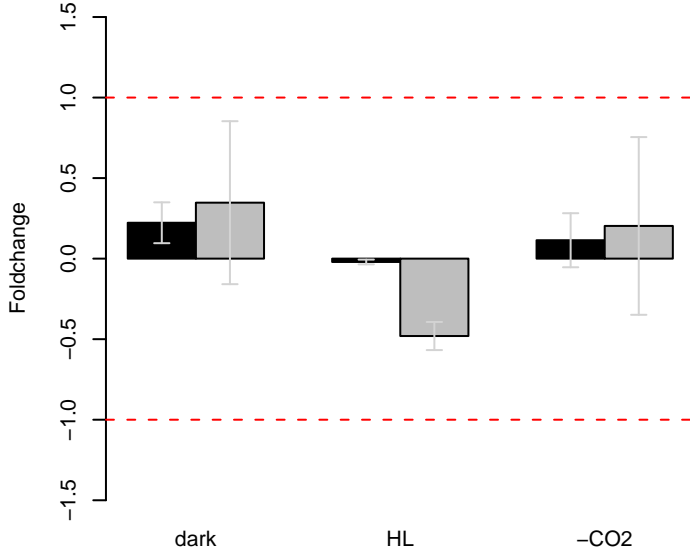
**glpD(sll1085)**



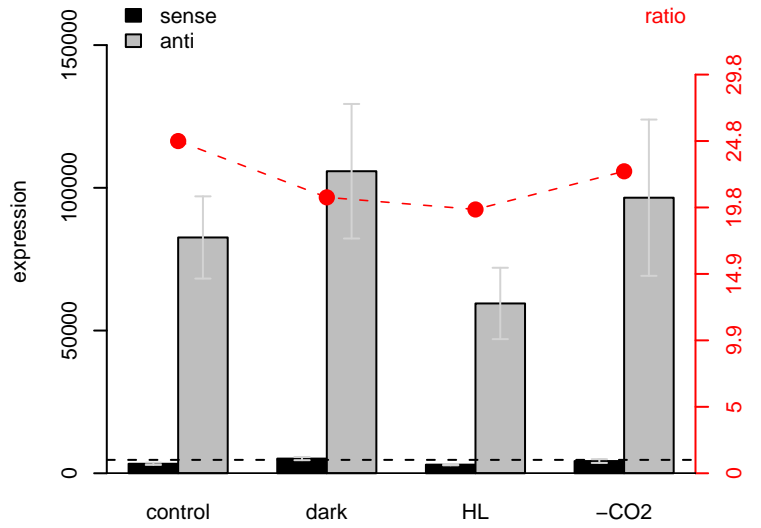
**genome\_2804**



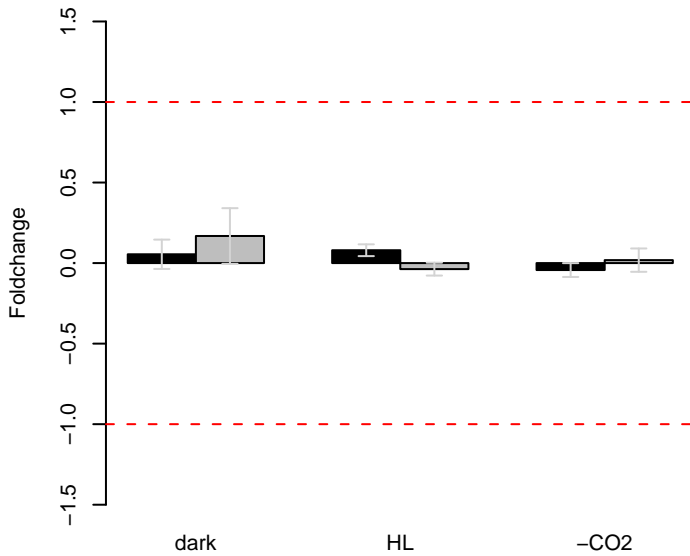
**otsA(sll1566)**



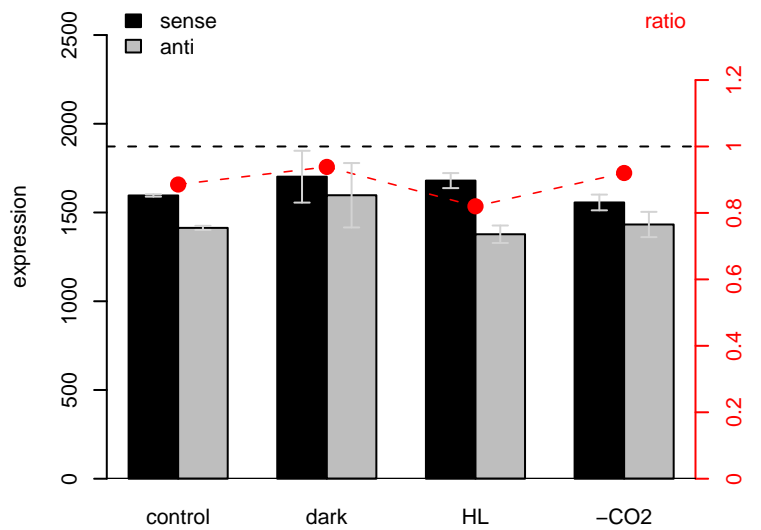
**genome\_2806**

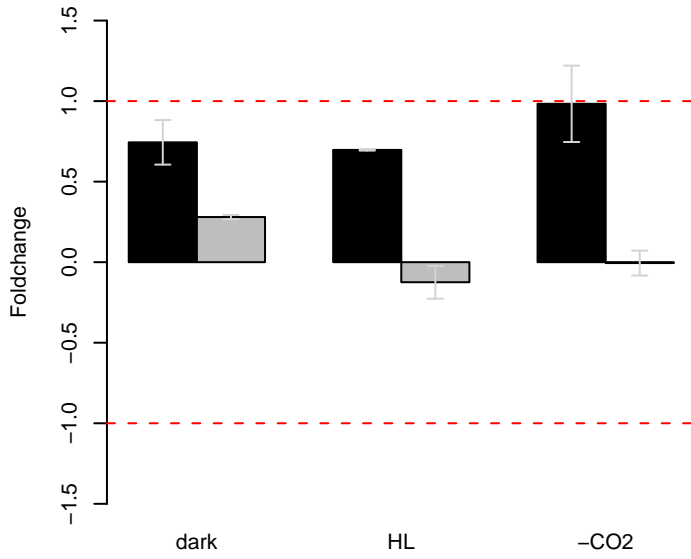
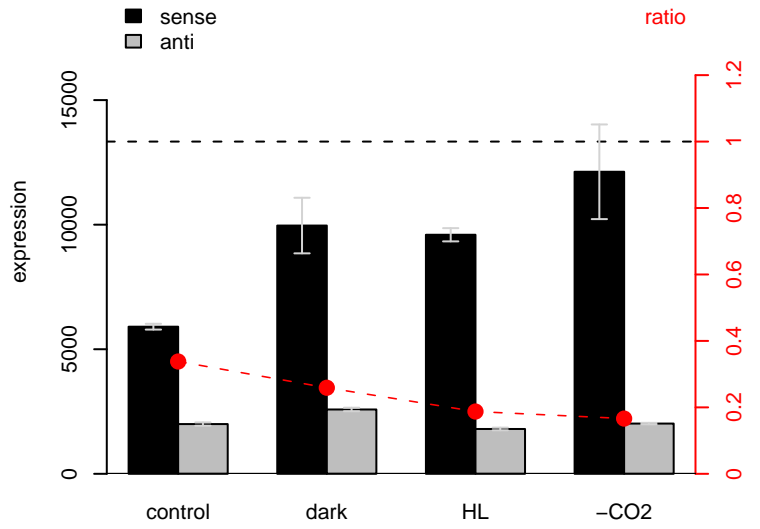
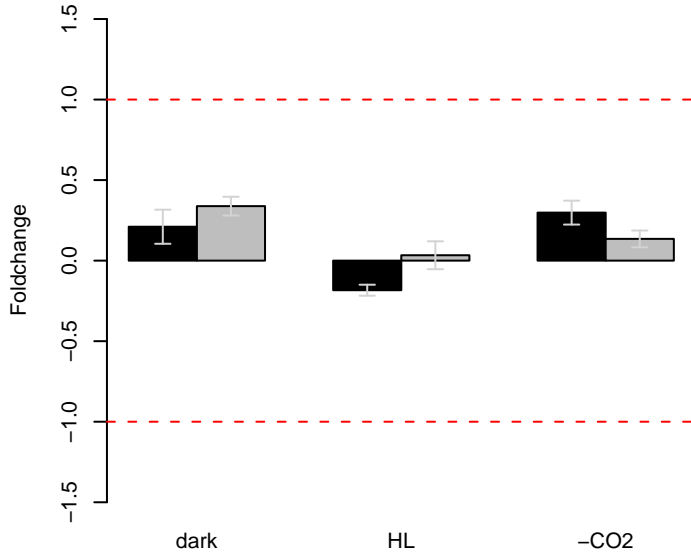
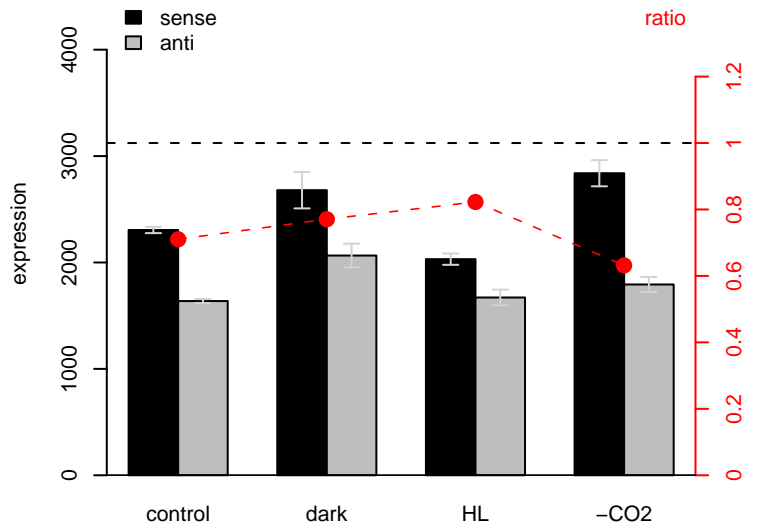
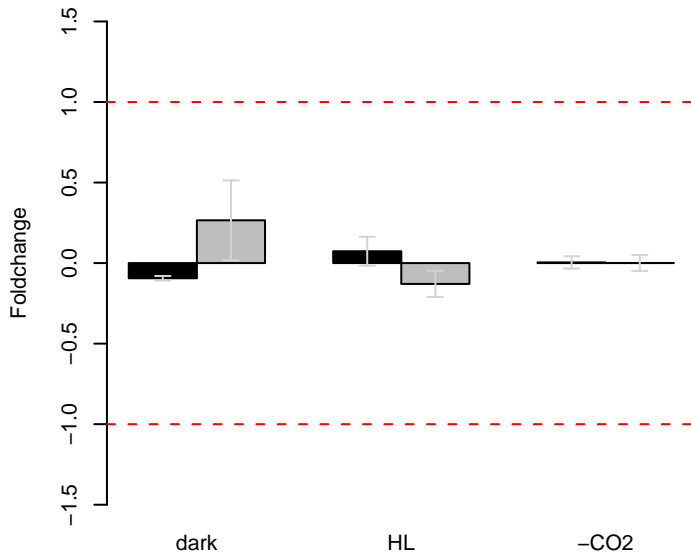
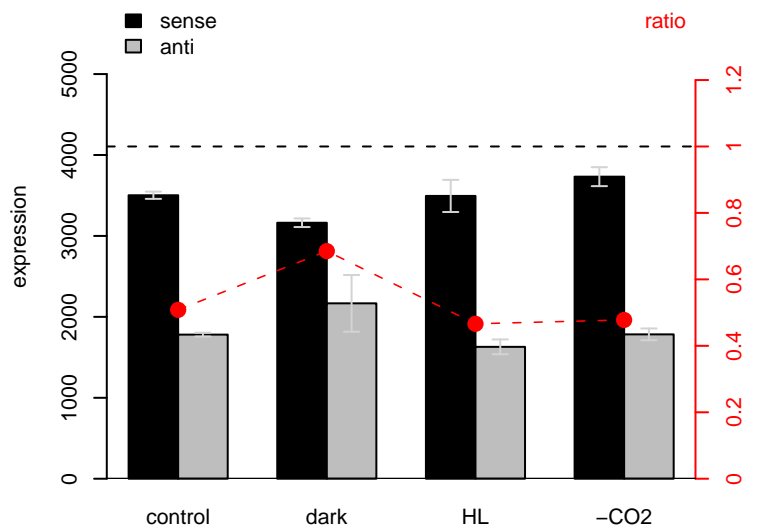


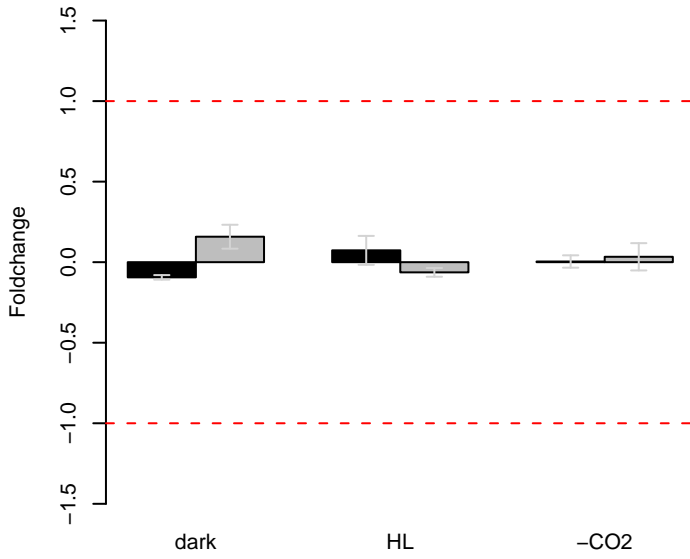
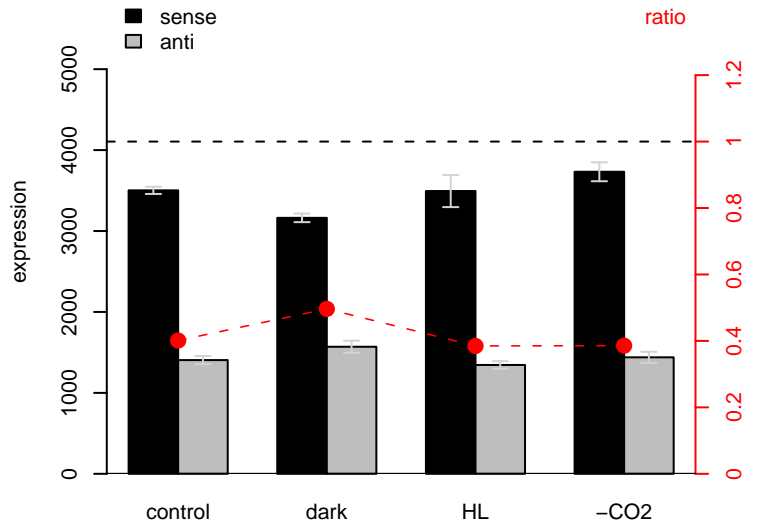
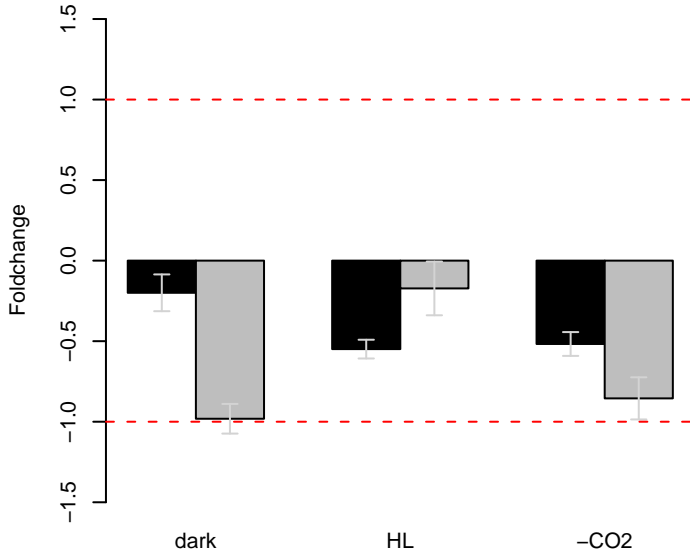
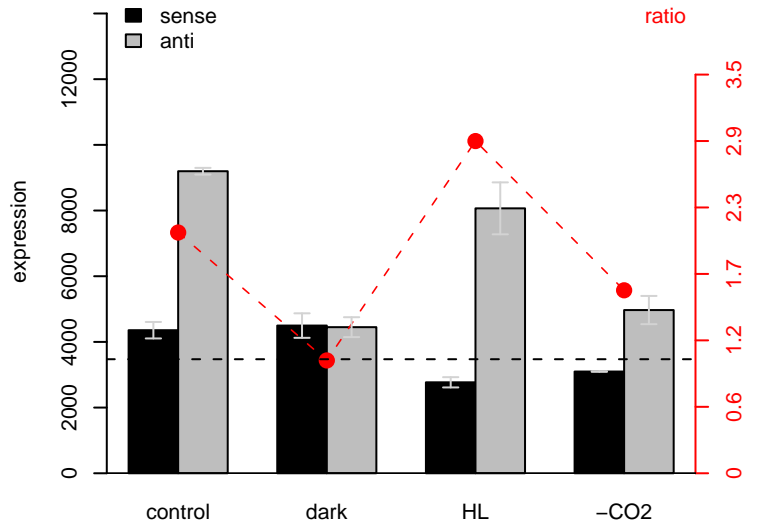
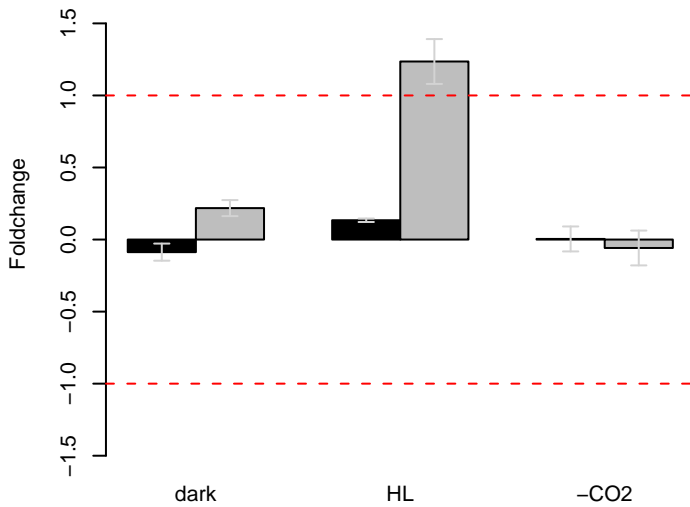
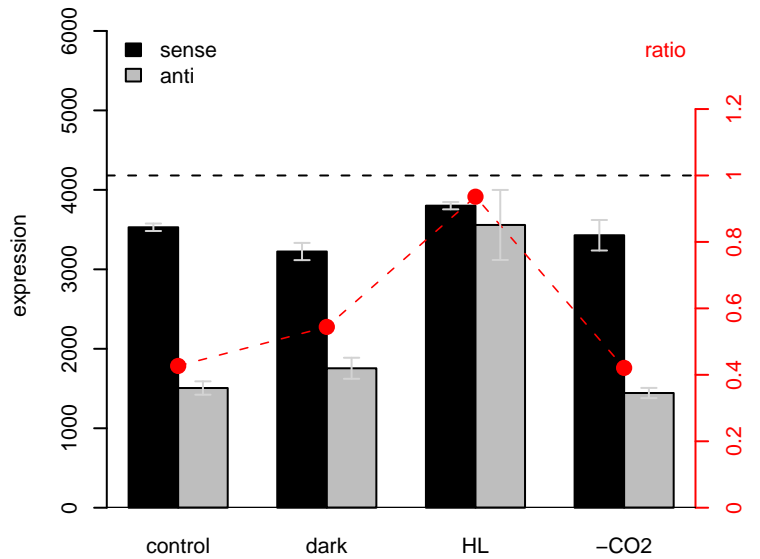
**slr1670**



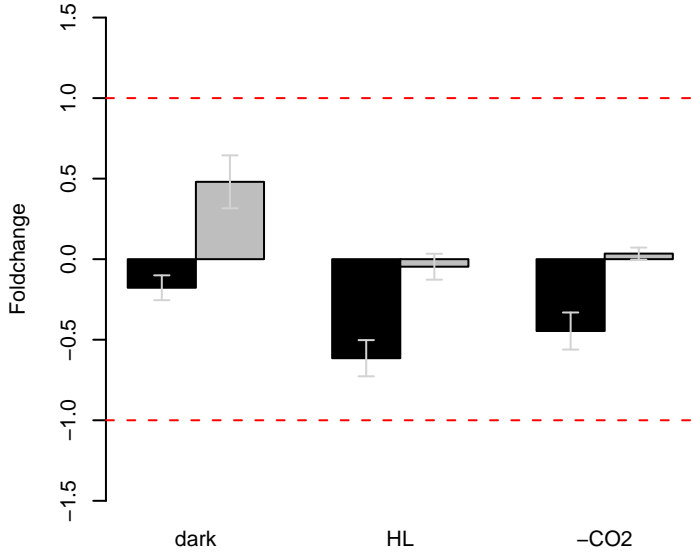
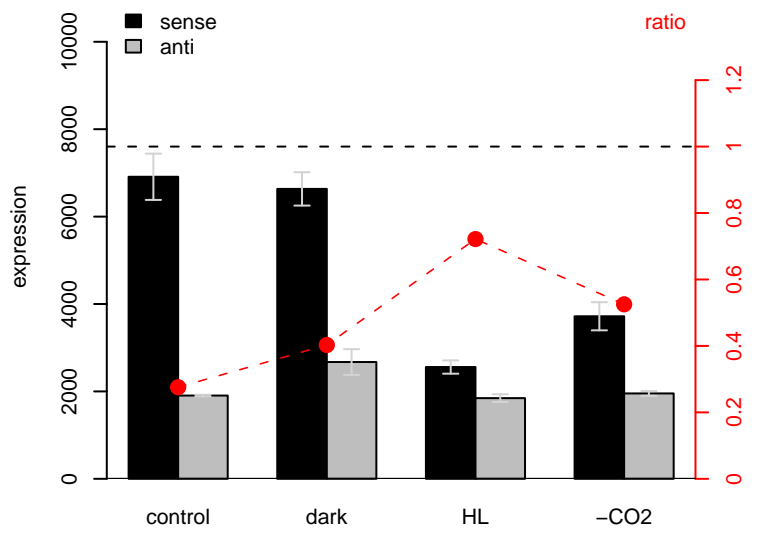
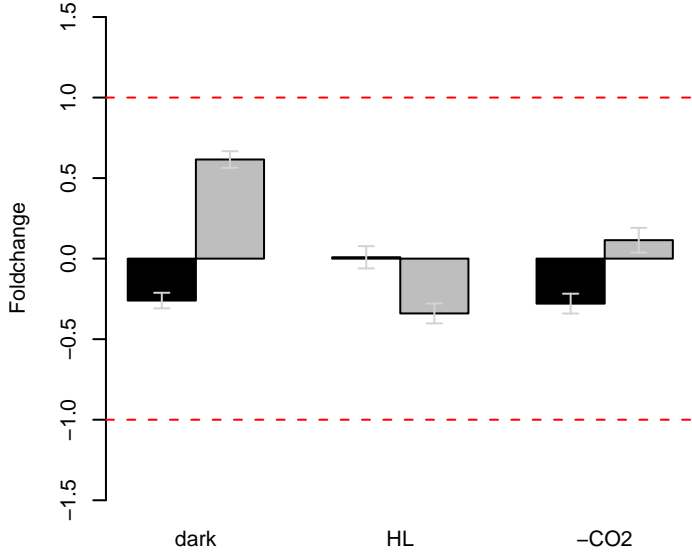
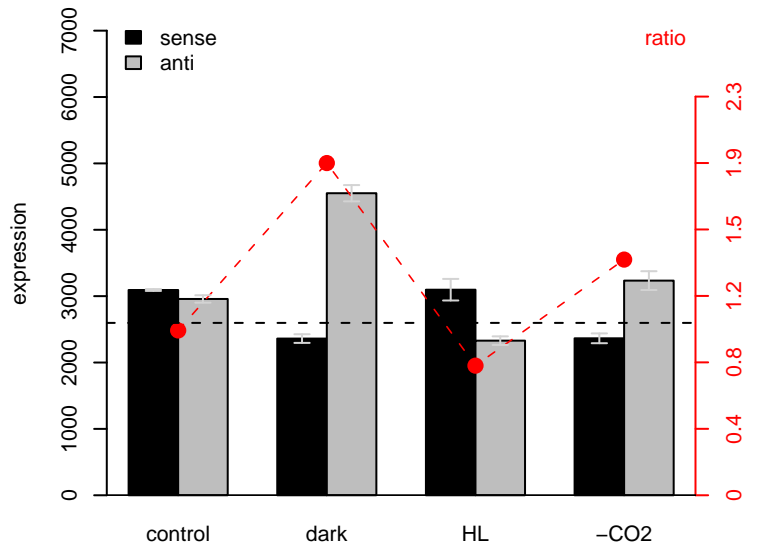
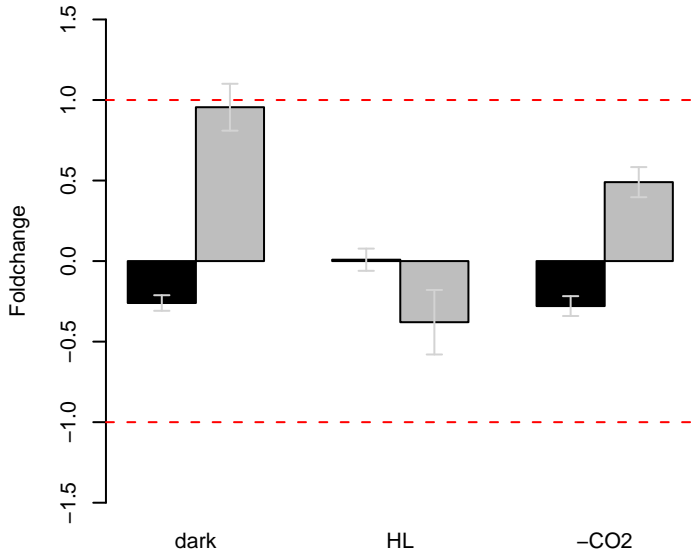
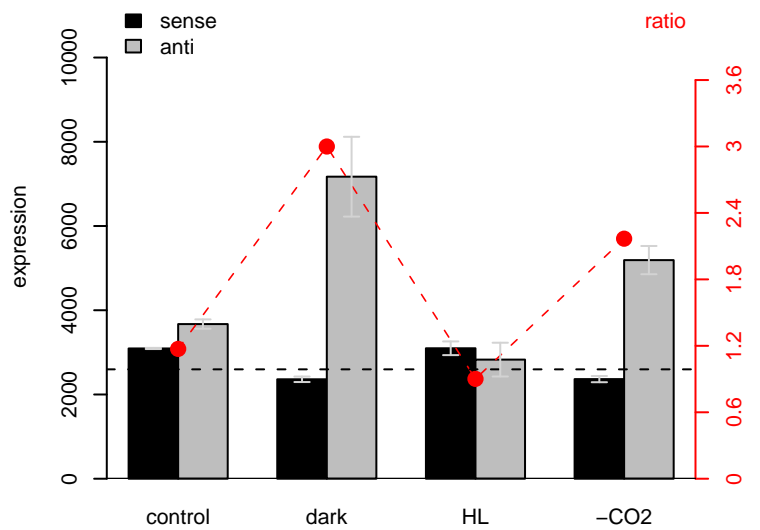
**genome\_2810**

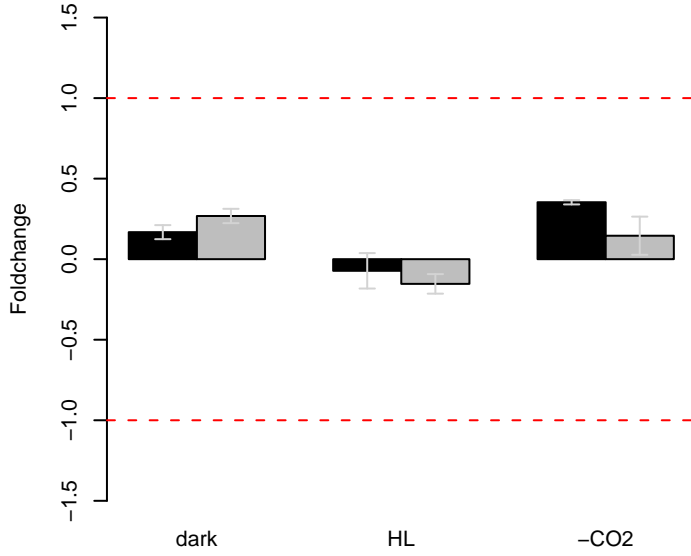
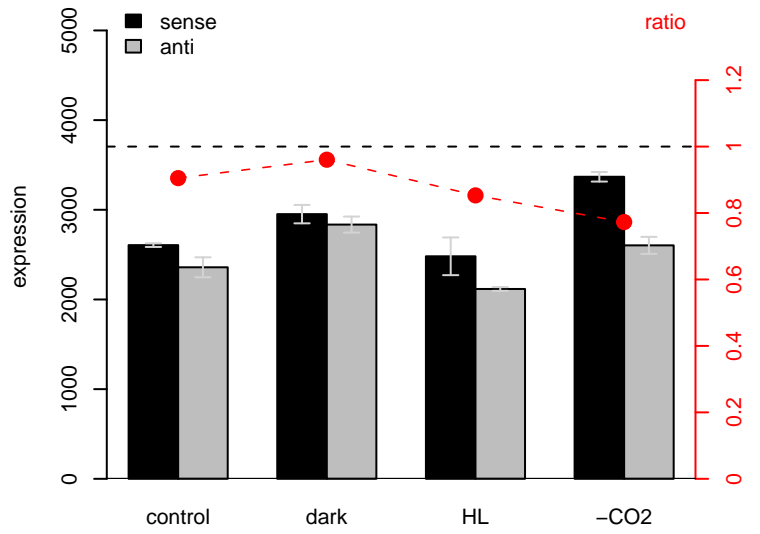
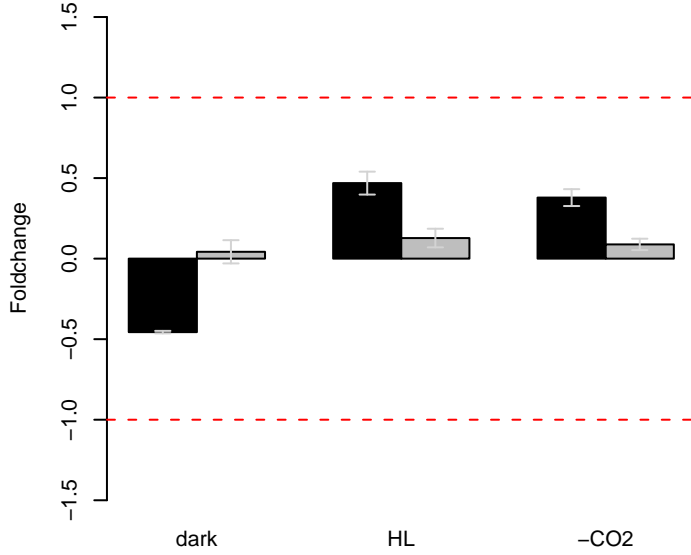
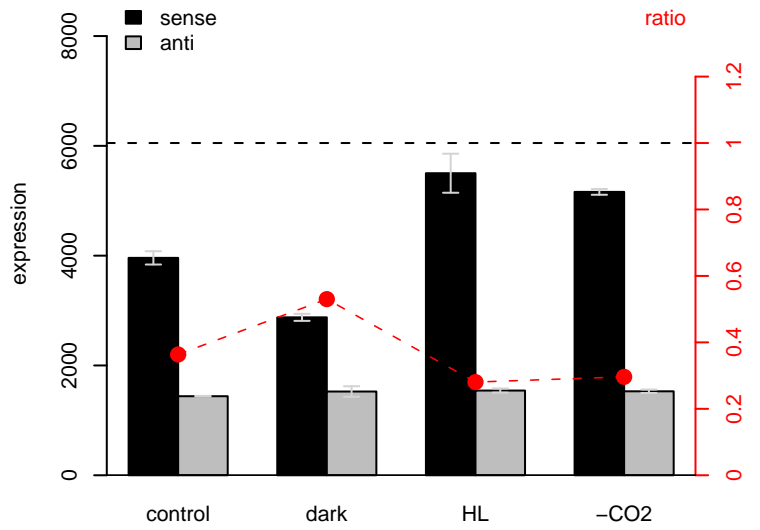
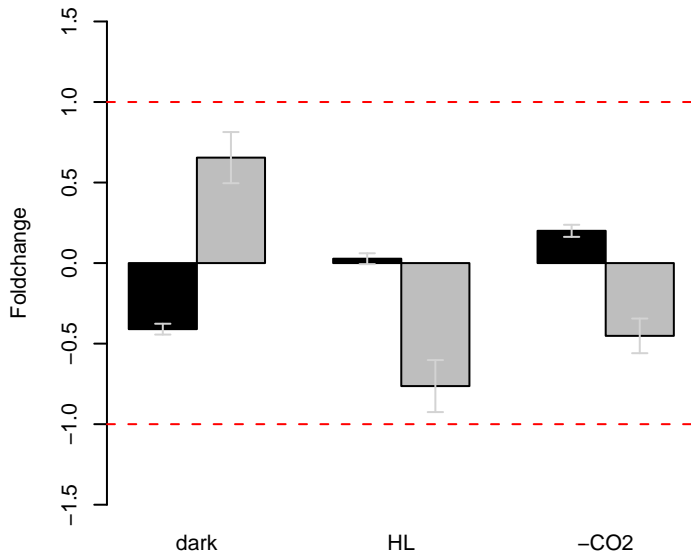
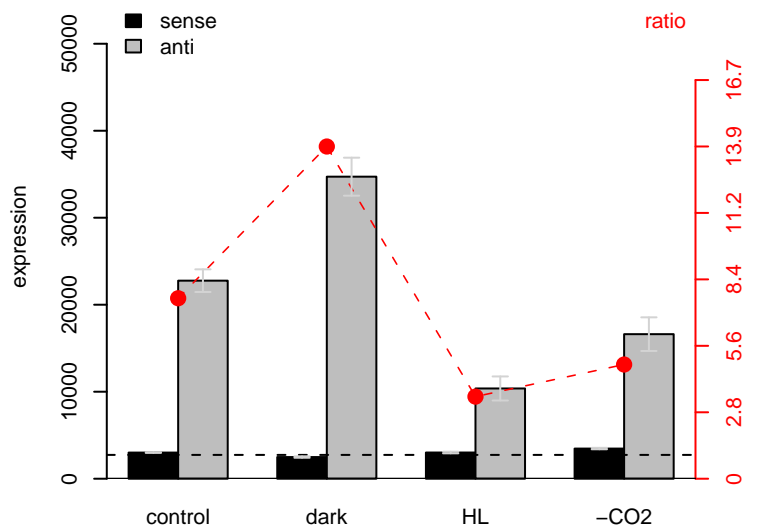


**slr1676****genome\_2816****leuA(sll1564)****genome\_2825****putA(sll1561)****genome\_2832**

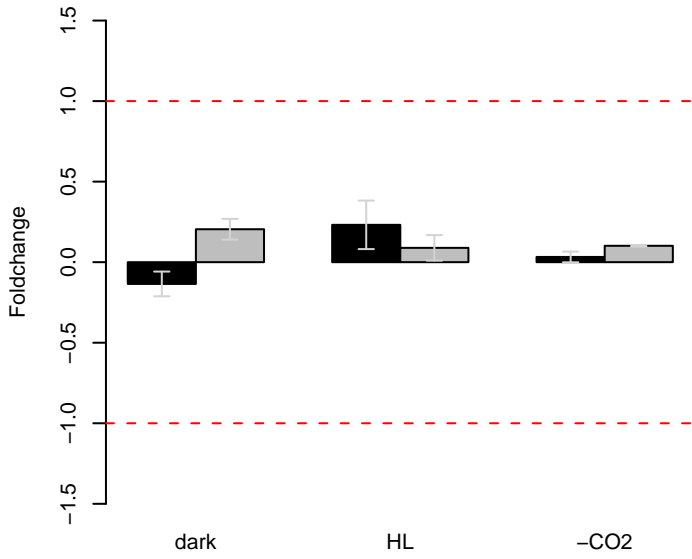
**putA(sll1561)****genome\_2832****slr1681****genome\_2836****slr1686****genome\_2848**



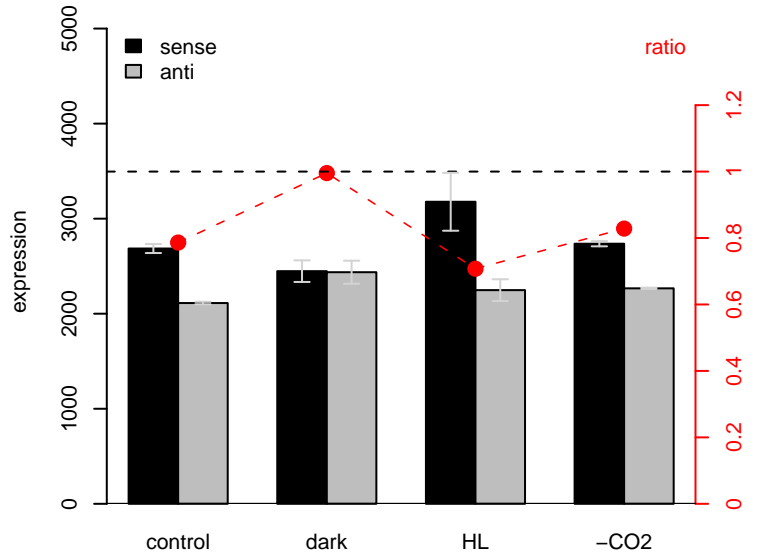
**mutM(slr1689)****genome\_2861****nadE(slr1691)****genome\_2864****nadE(slr1691)****genome\_2864**

**slr1692****genome\_2867****slr1694****genome\_2871****pknA(slr1697)****genome\_2874**

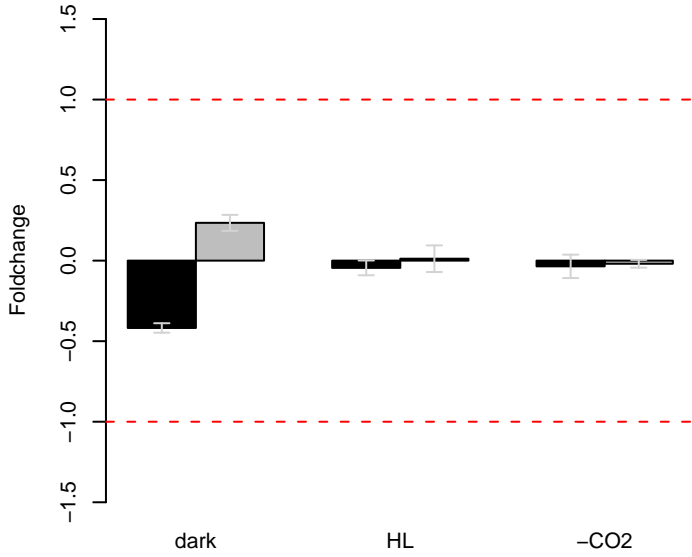
**sli0921**



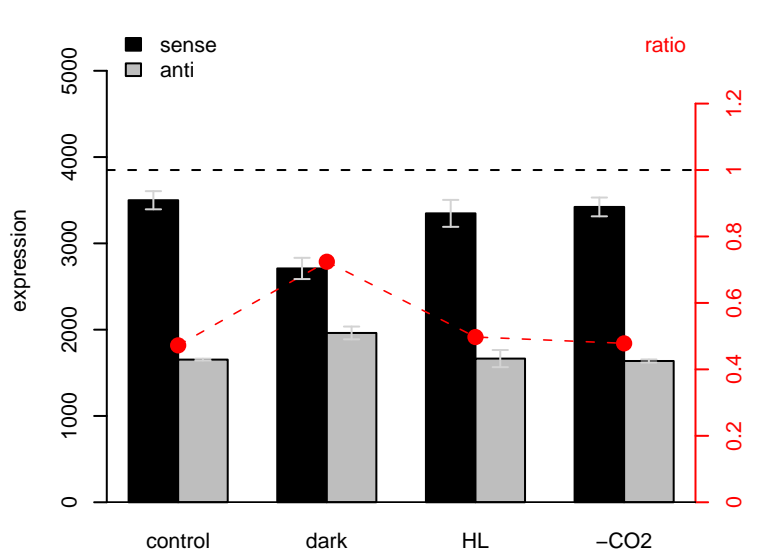
**genome\_2876**



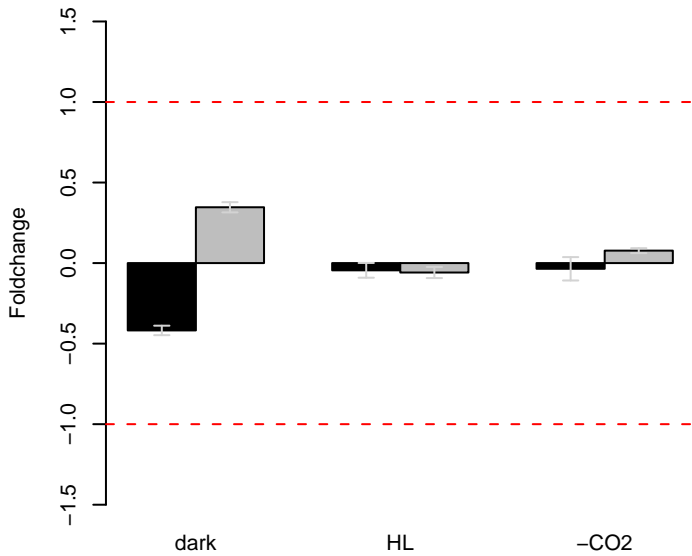
**ppc(sli0920)**



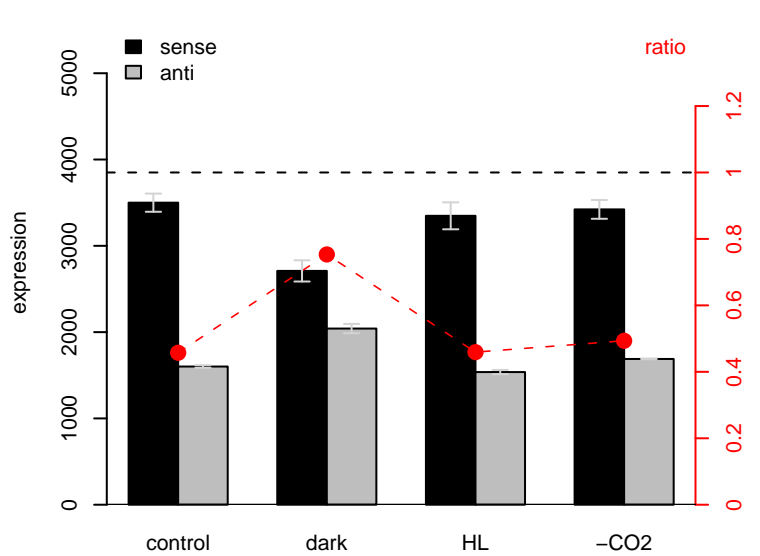
**genome\_2879**

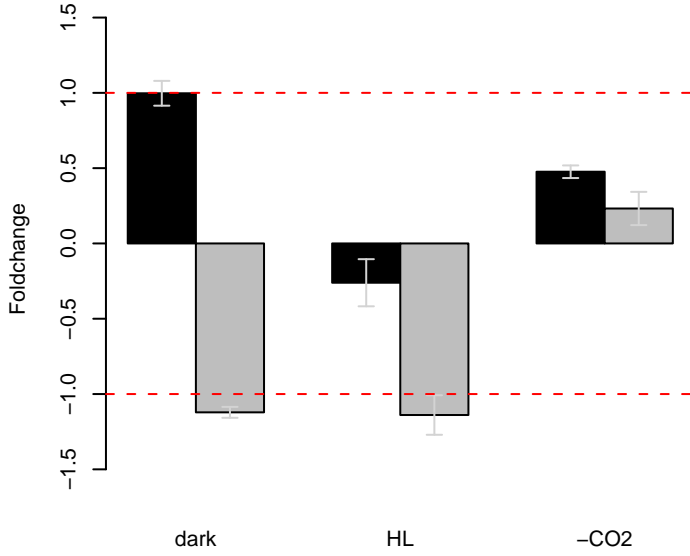
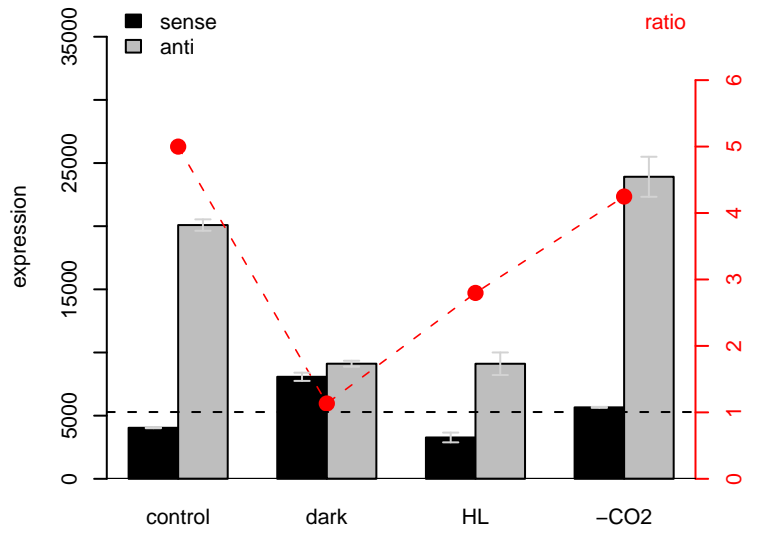
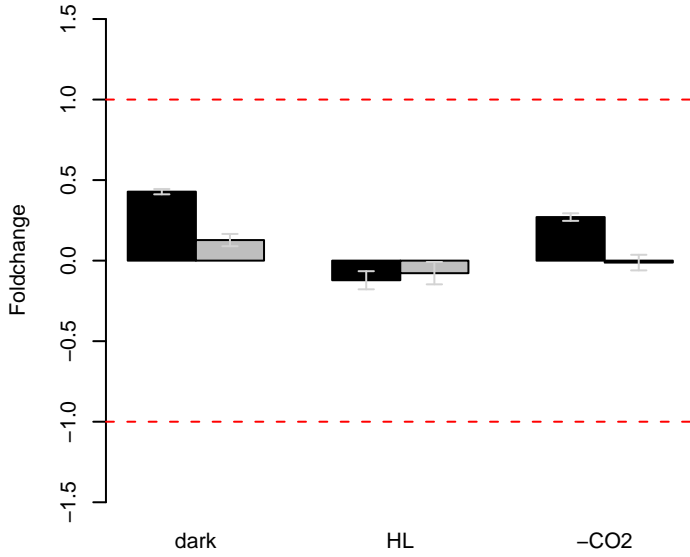
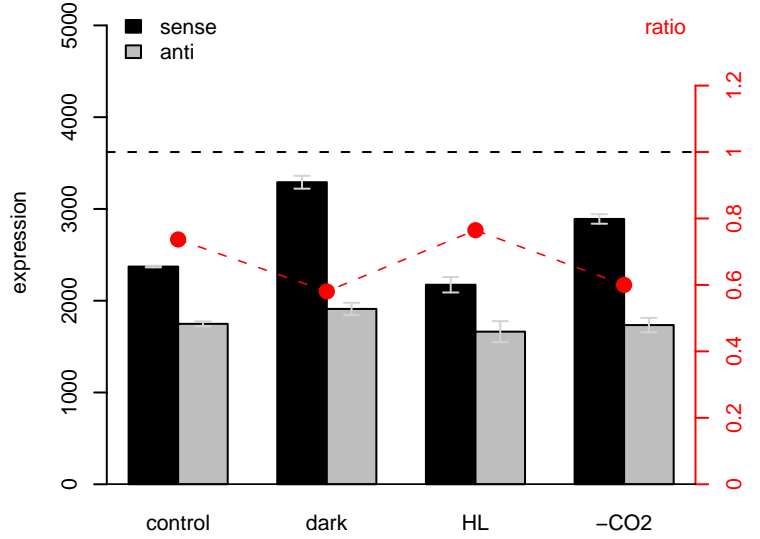
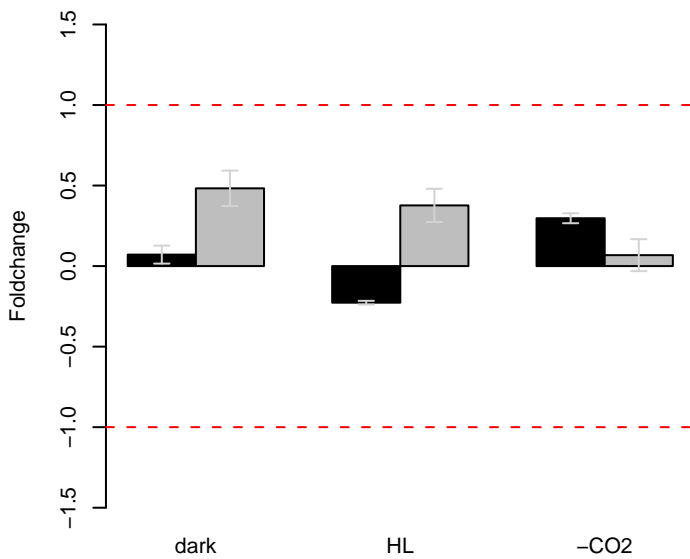
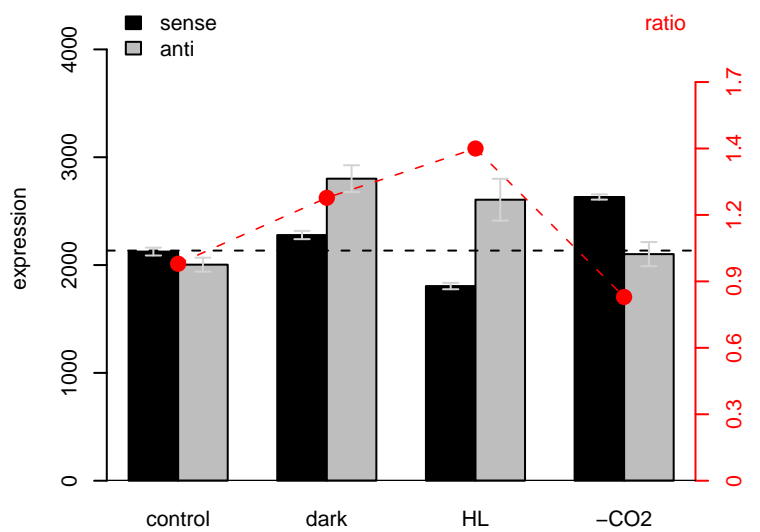


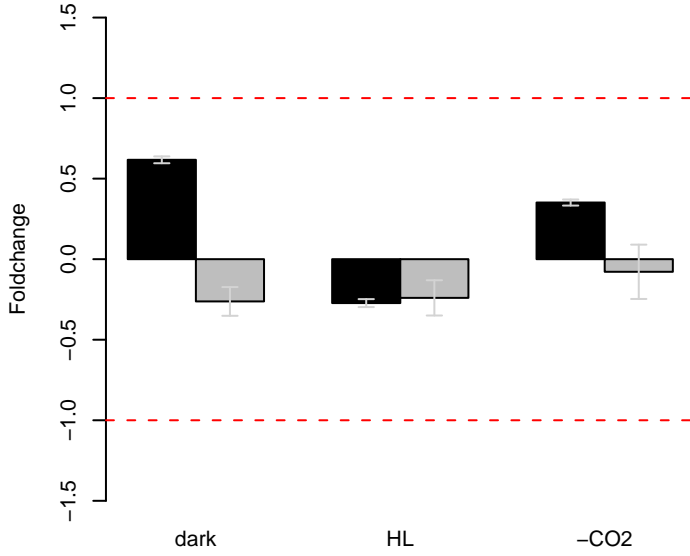
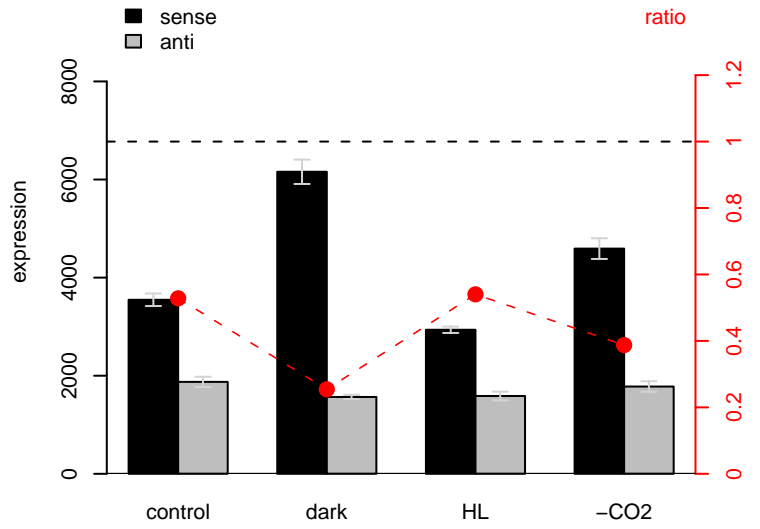
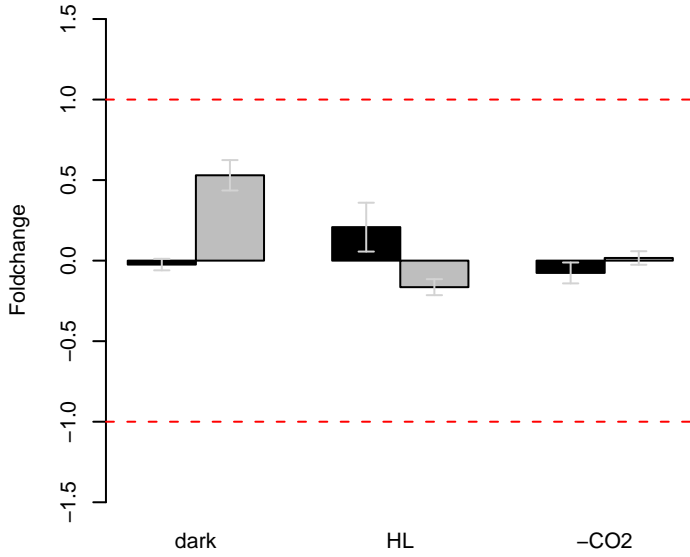
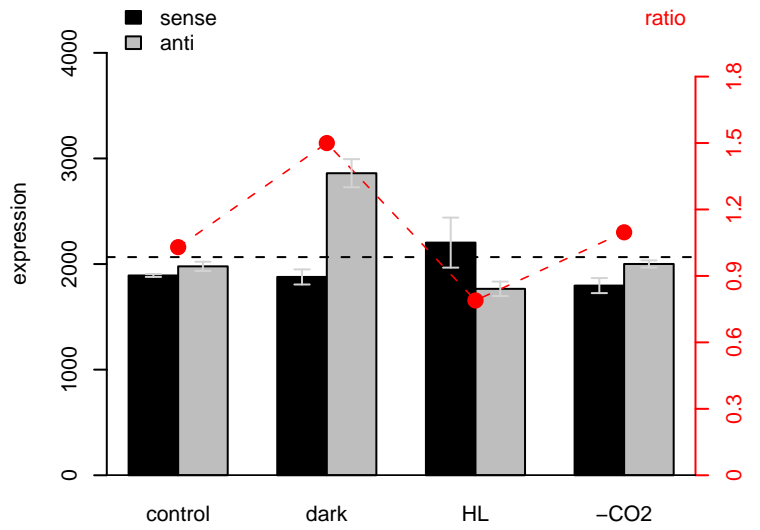
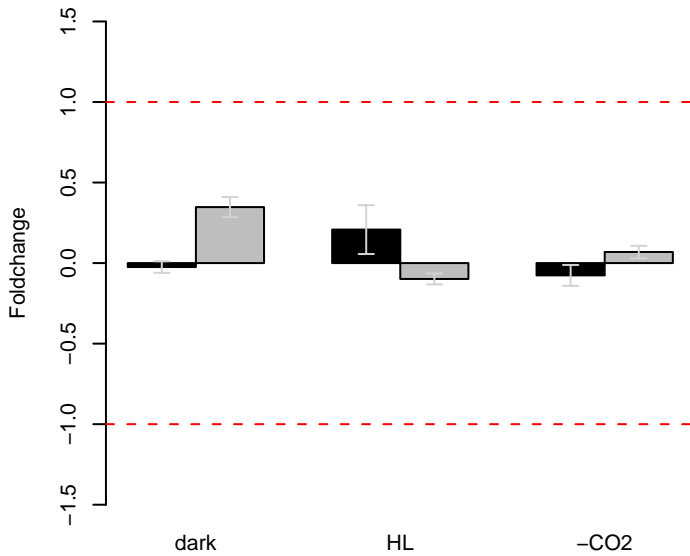
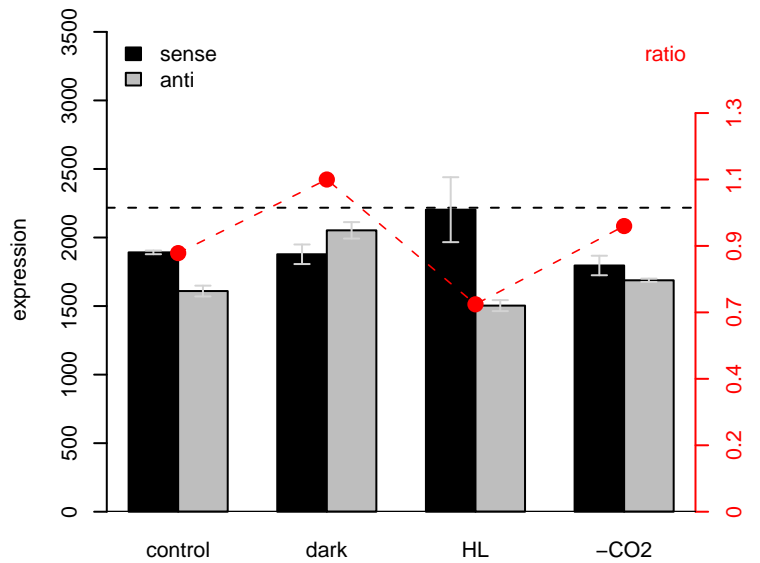
**ppc(sli0920)**

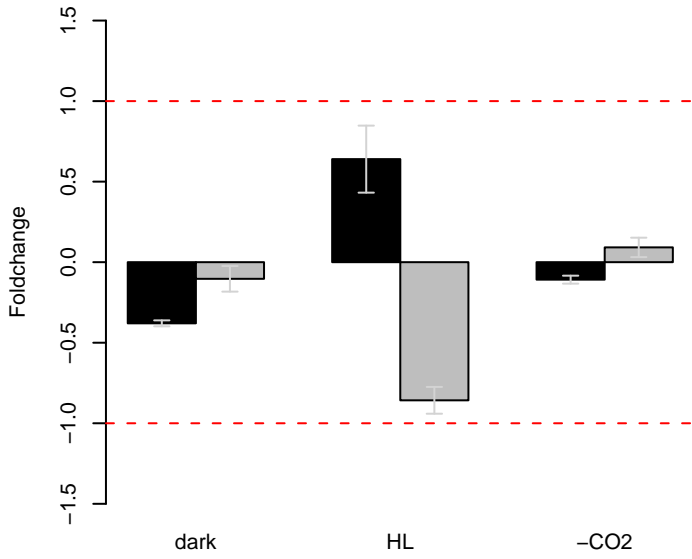
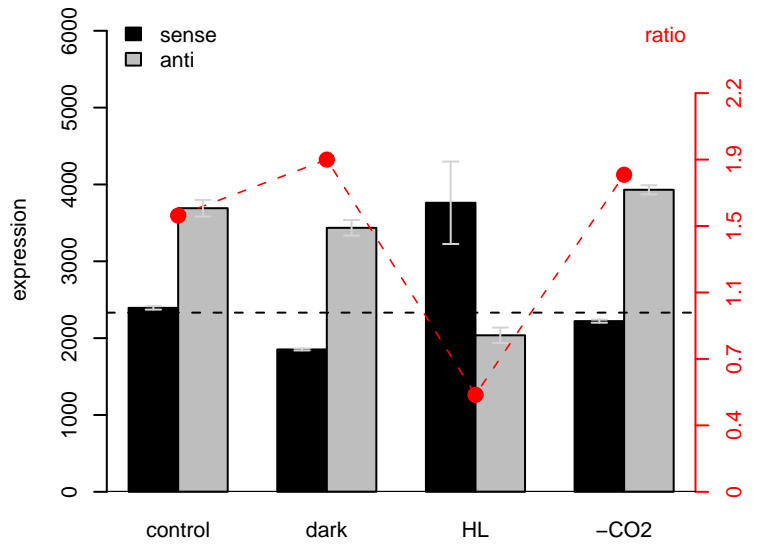
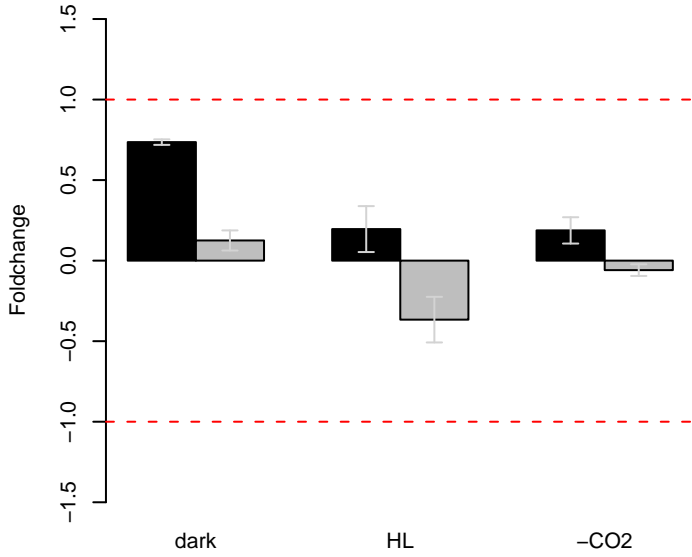
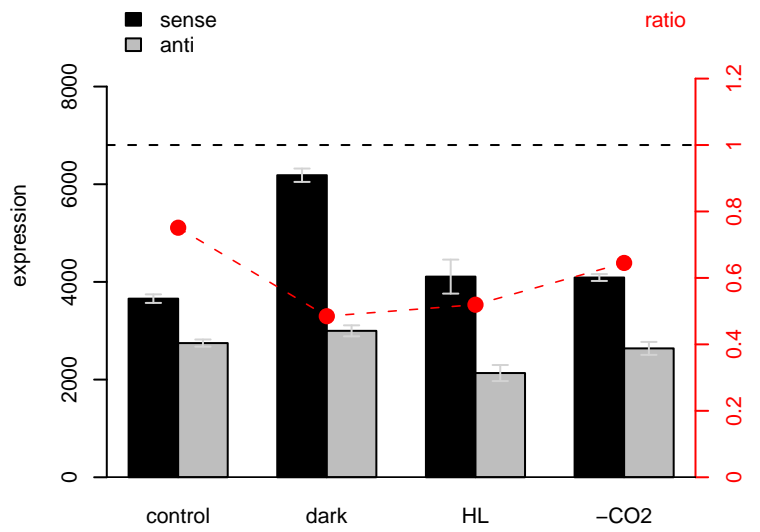
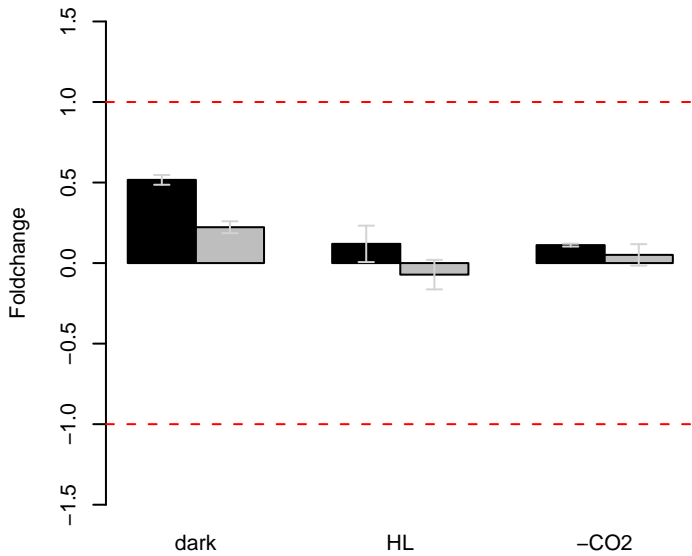
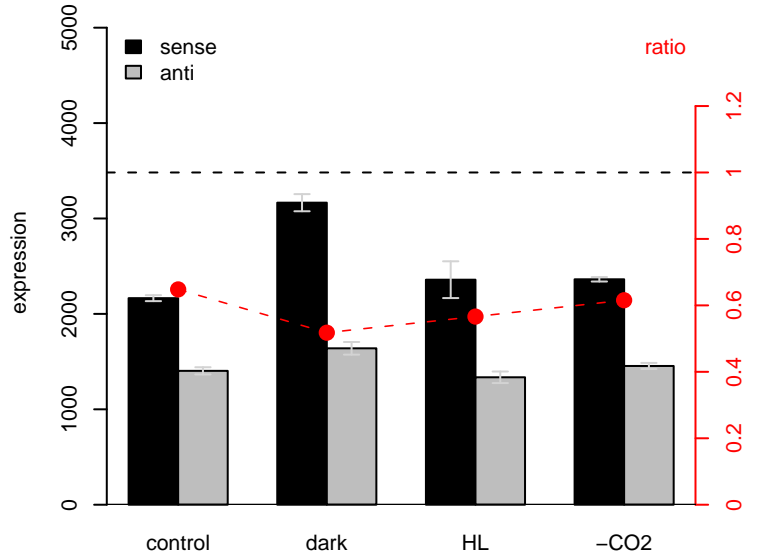


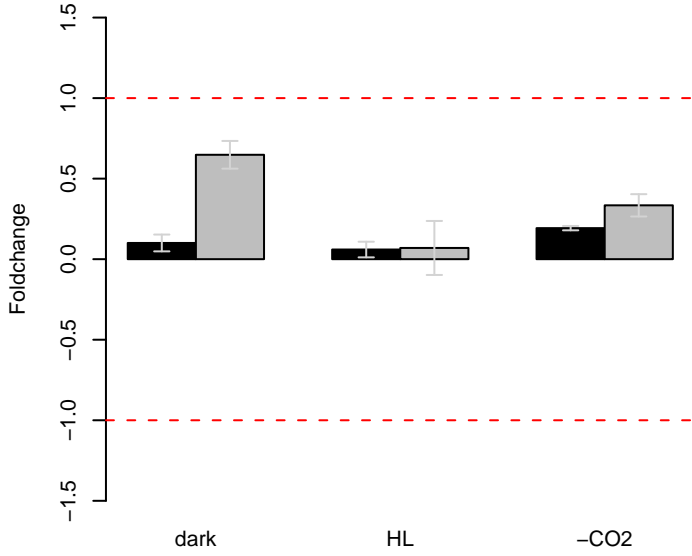
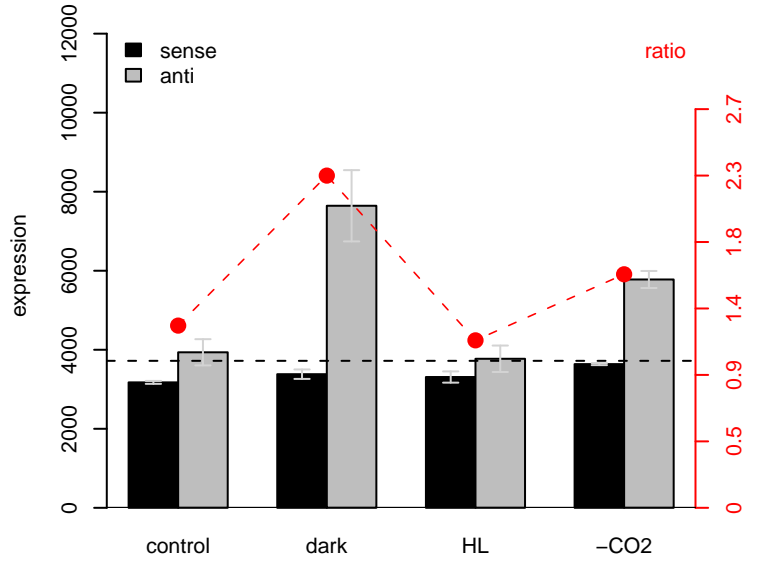
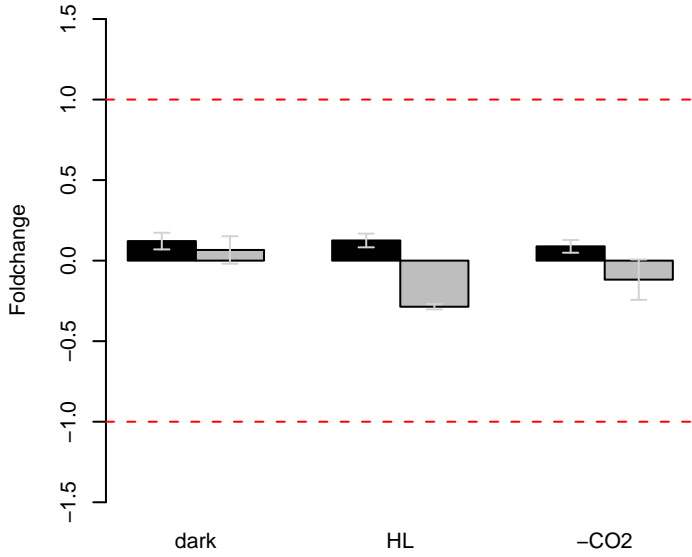
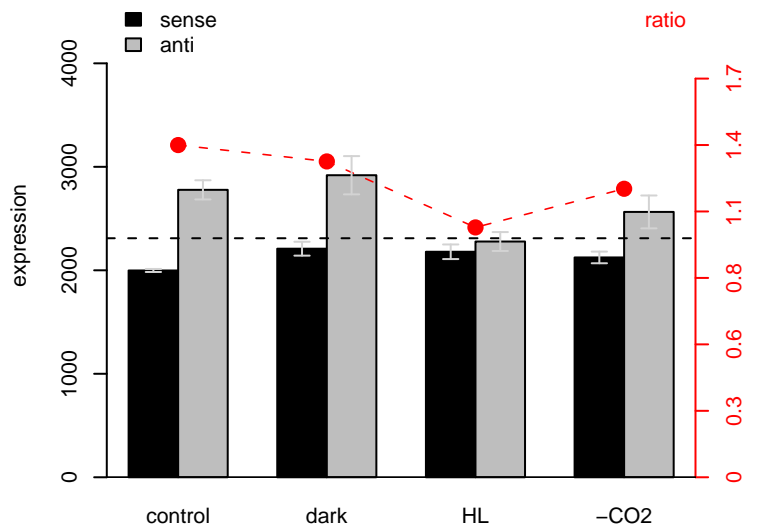
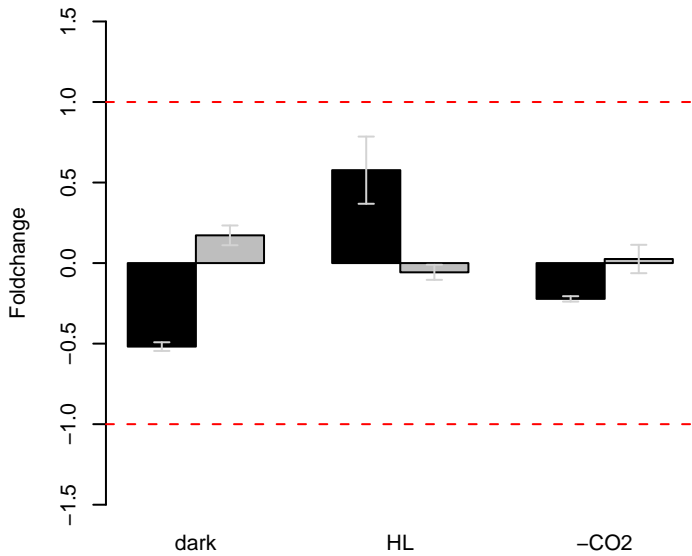
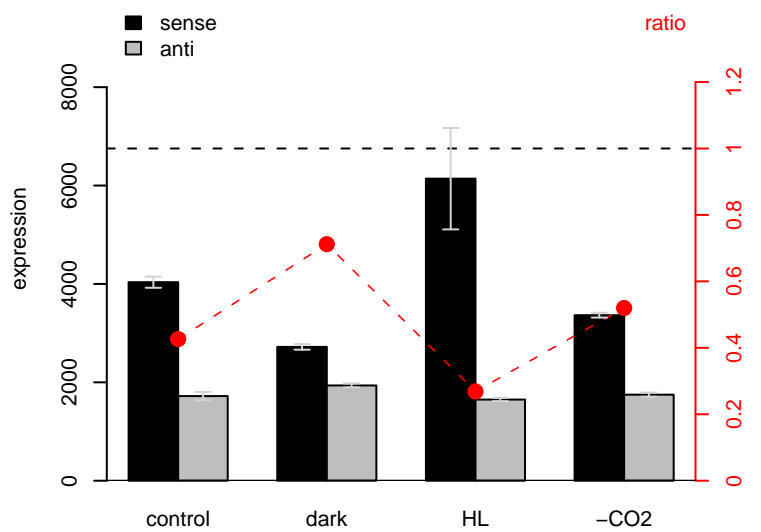
**genome\_2879**



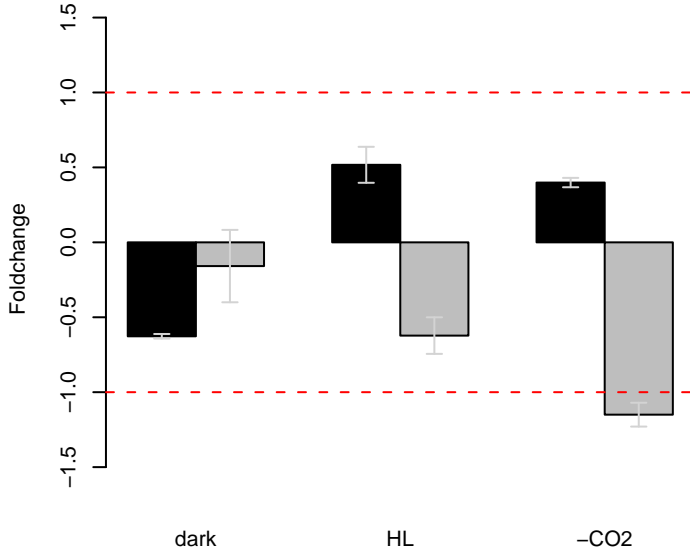
**slr0935****genome\_2883****nadC(slr0936)****genome\_2884****slr1107****genome\_288**

**slr0942****genome\_2892****livH(slr0949)****genome\_2903****livH(slr0949)****genome\_2903**

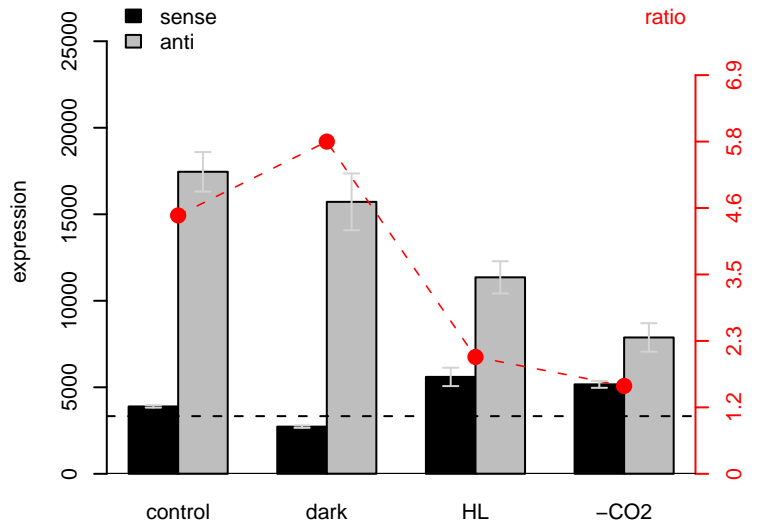
**sll1033****genome\_290****sll0909****genome\_2909****ispD(slr0951)****genome\_2912**

**fbp(slr0952)****genome\_2914****slr0953****genome\_2916****slr0954****genome\_2920**

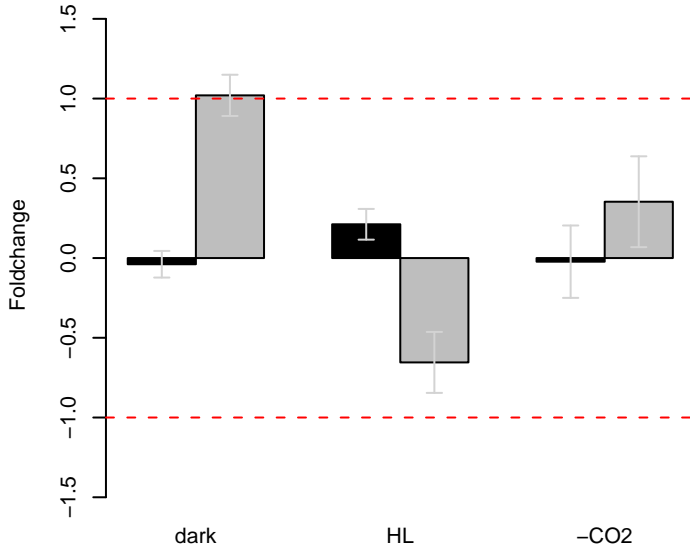
**slr1624**



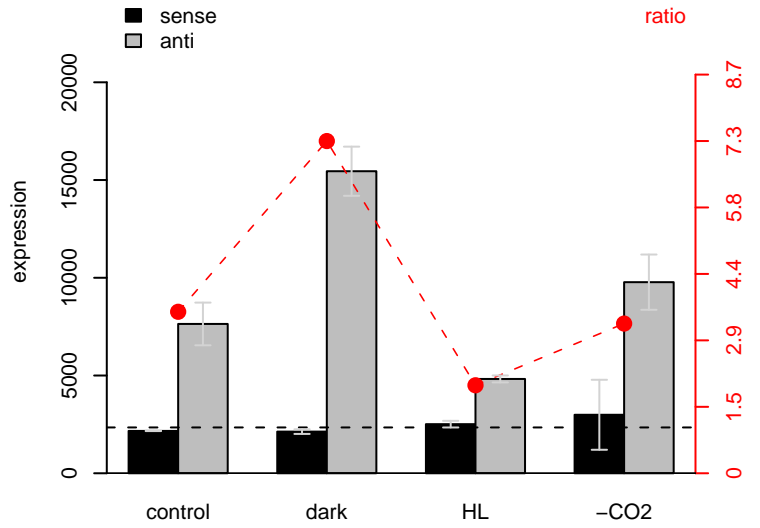
**genome\_2936**



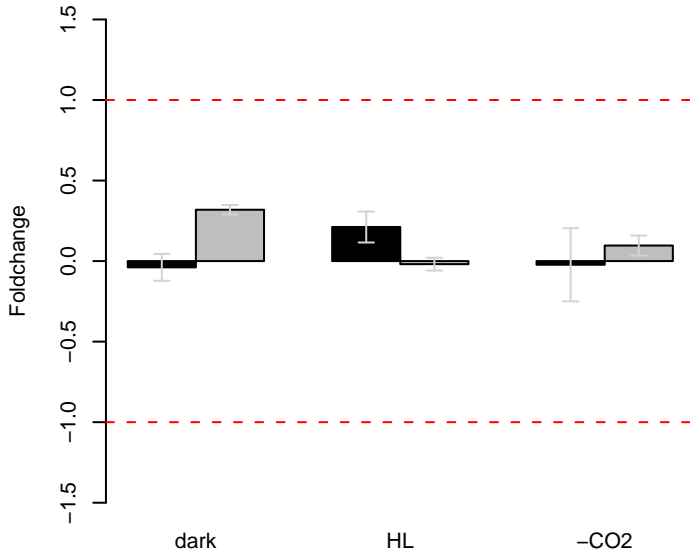
**bgl(sll1538)**



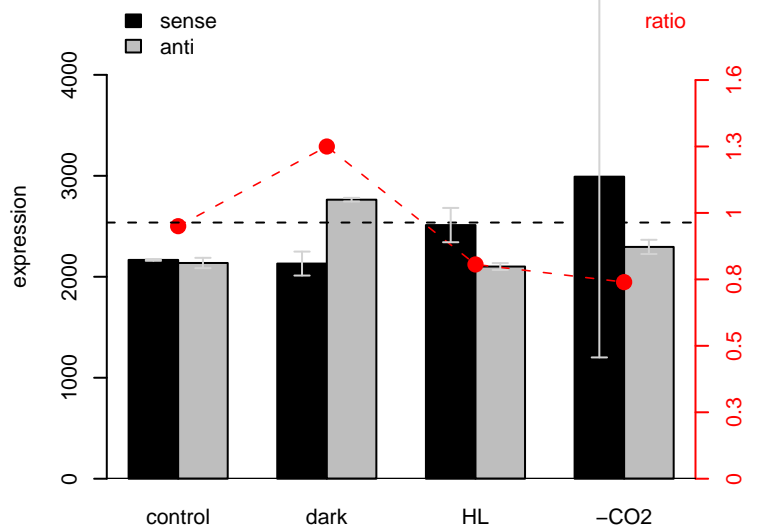
**genome\_2938**



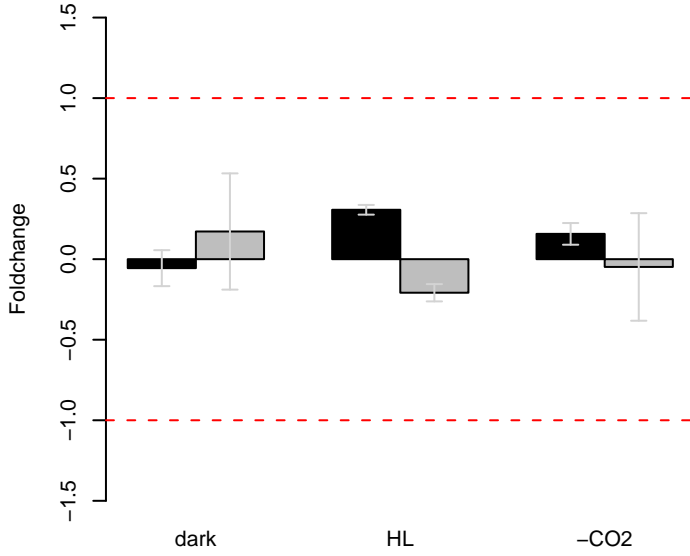
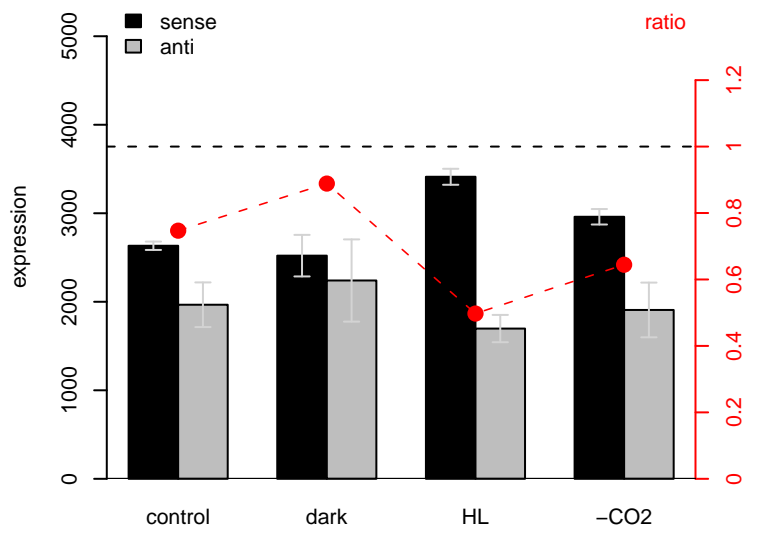
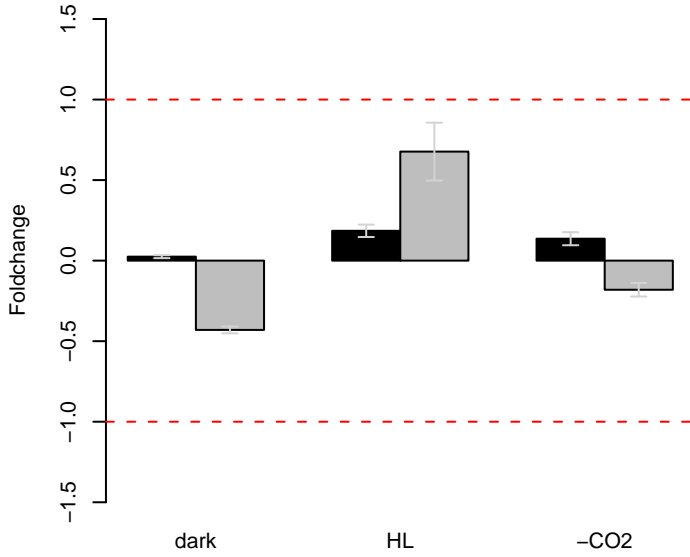
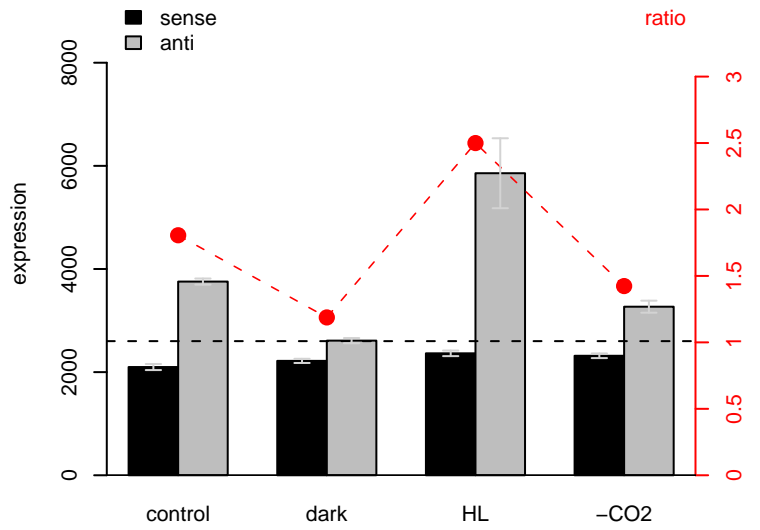
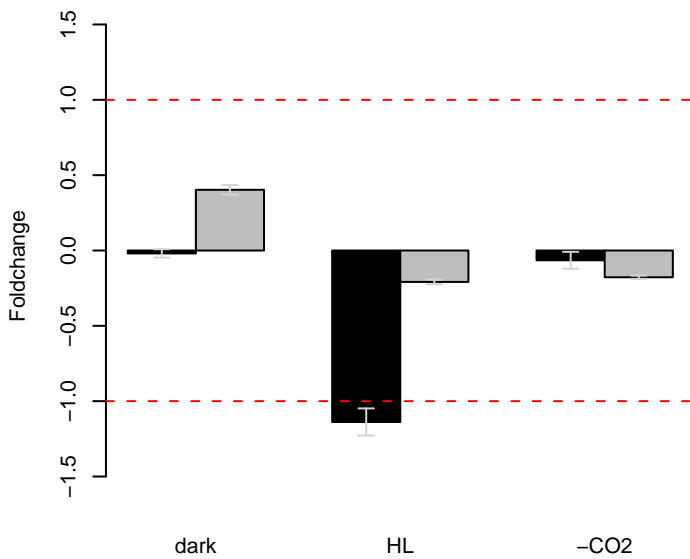
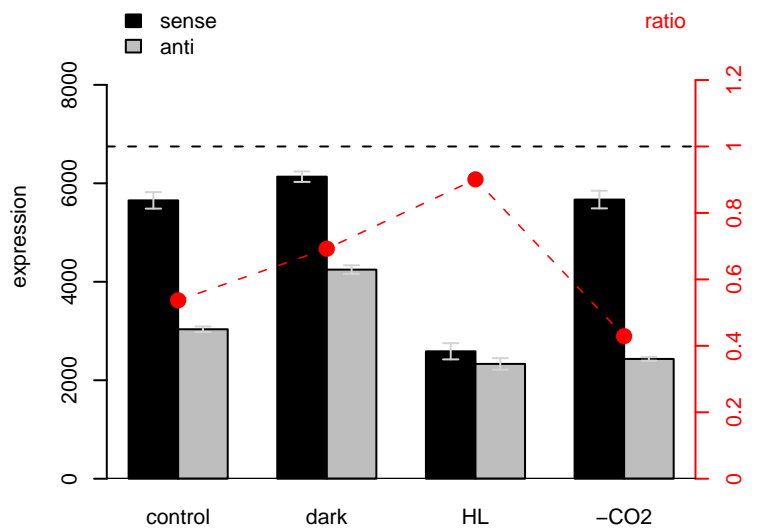
**bgl(sll1538)**

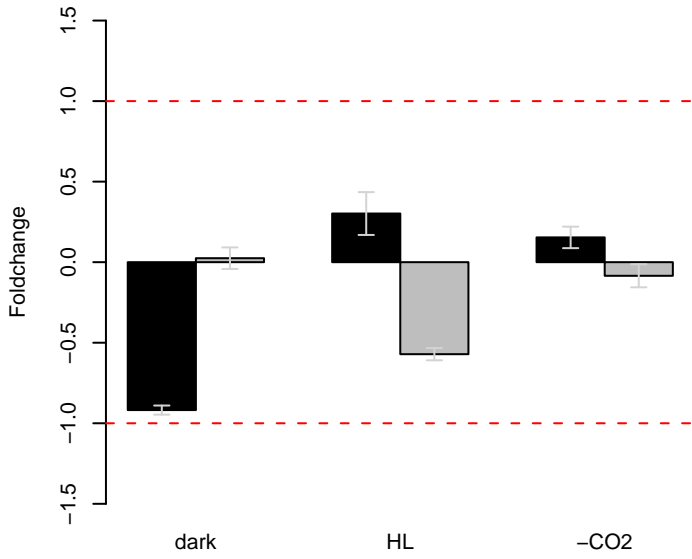
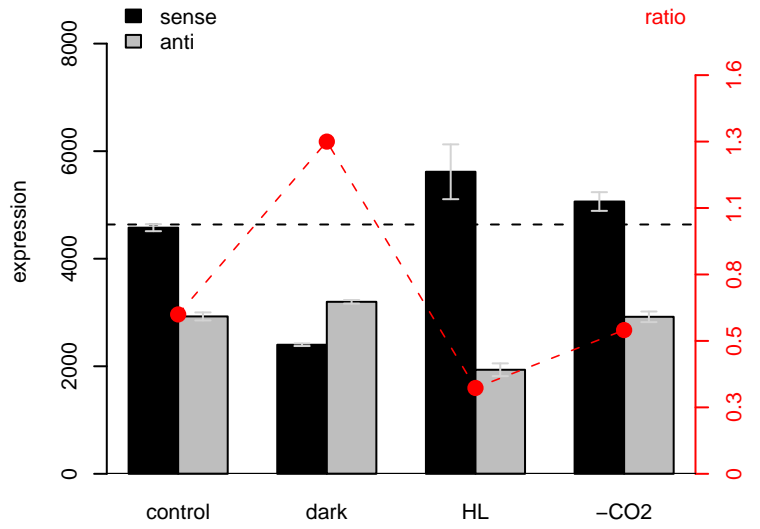
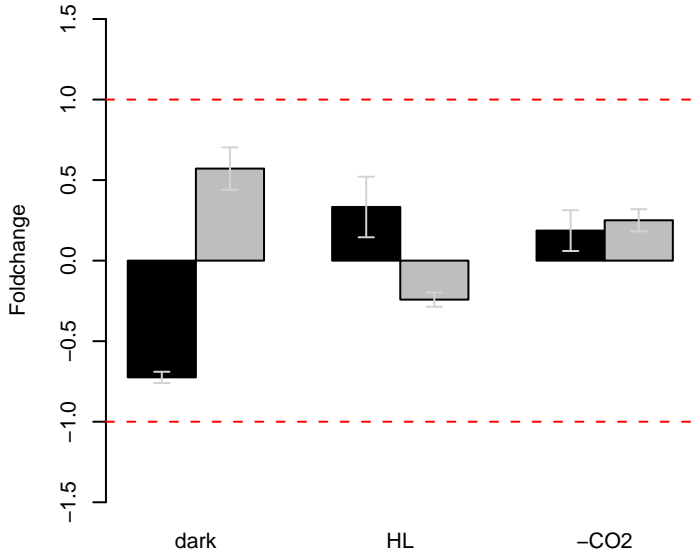
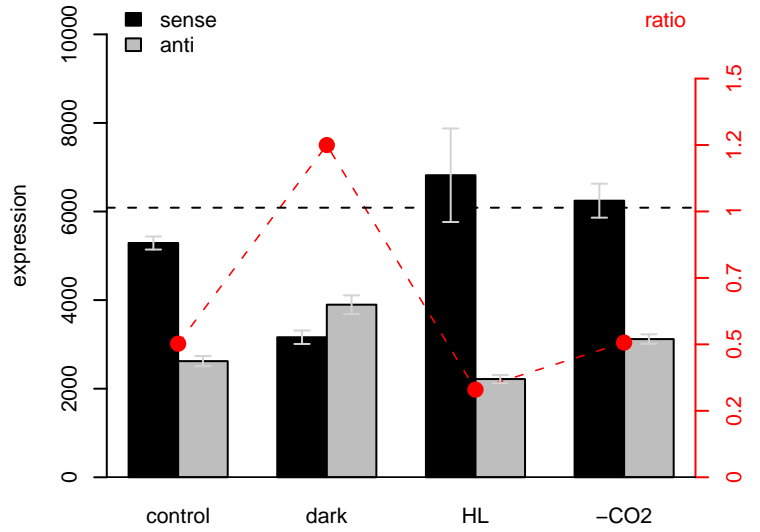
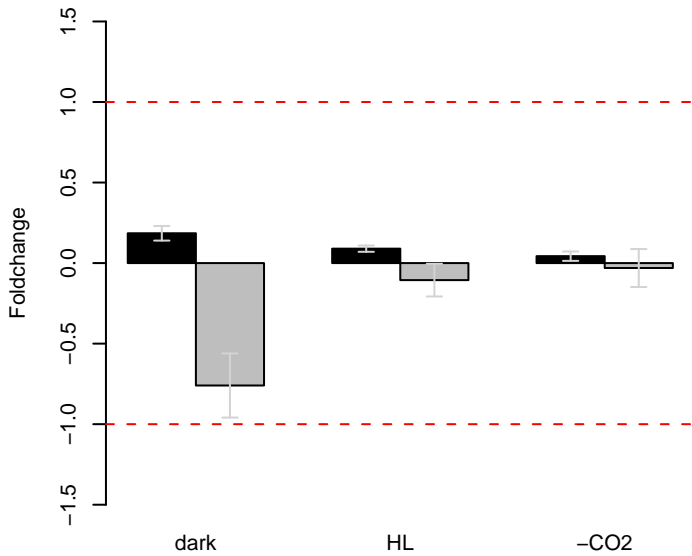
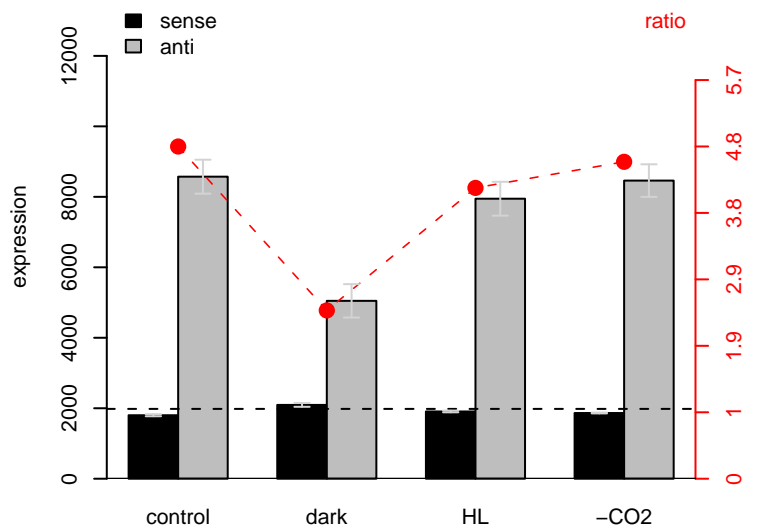


**genome\_2938**

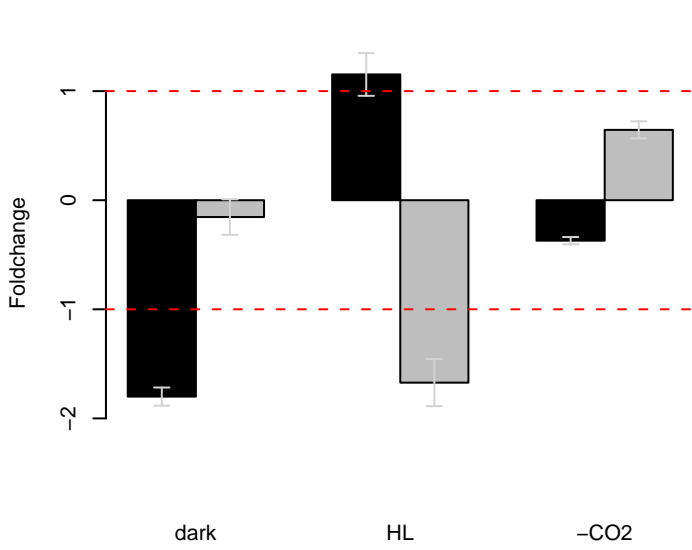




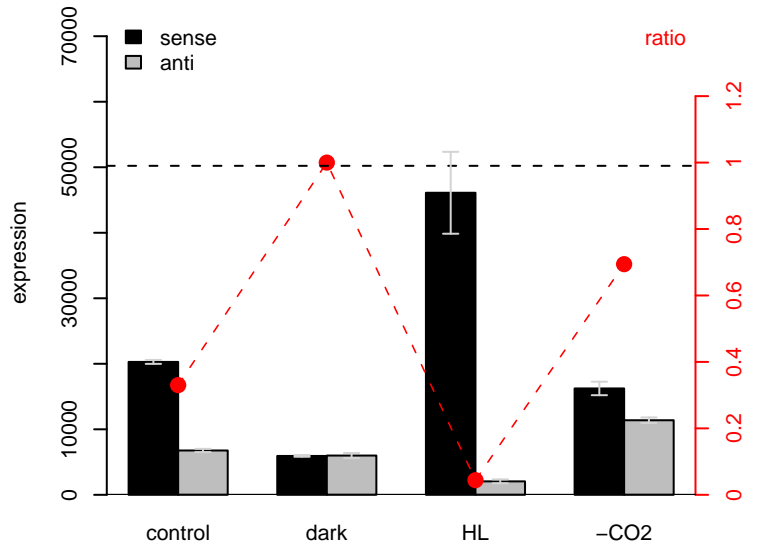
**slr1627****genome\_2943****slr1629****genome\_2947****pilT(sll1533)****genome\_2953**

**sll1532****genome\_2960****ssl2982****genome\_2962****slr1636****genome\_2966**

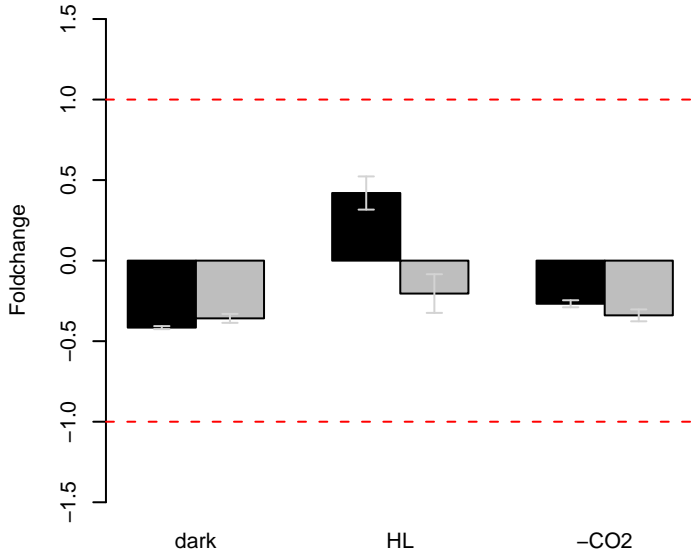
**ccmK(sll1028)**



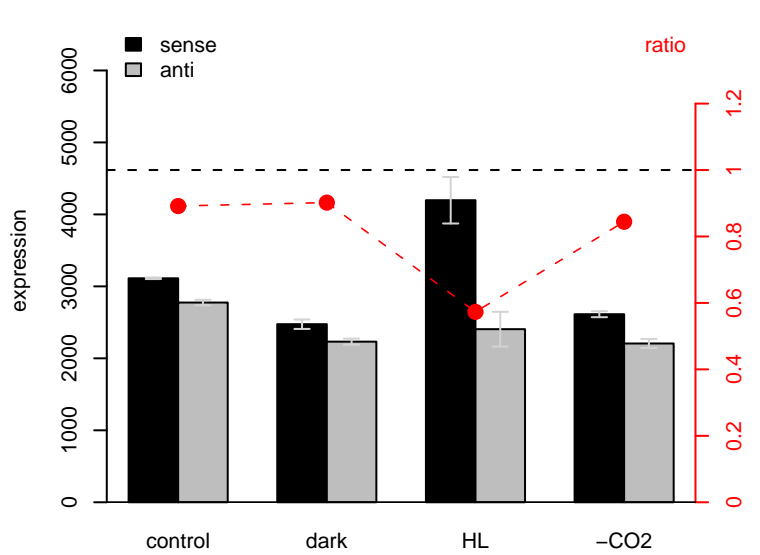
**genome\_296**



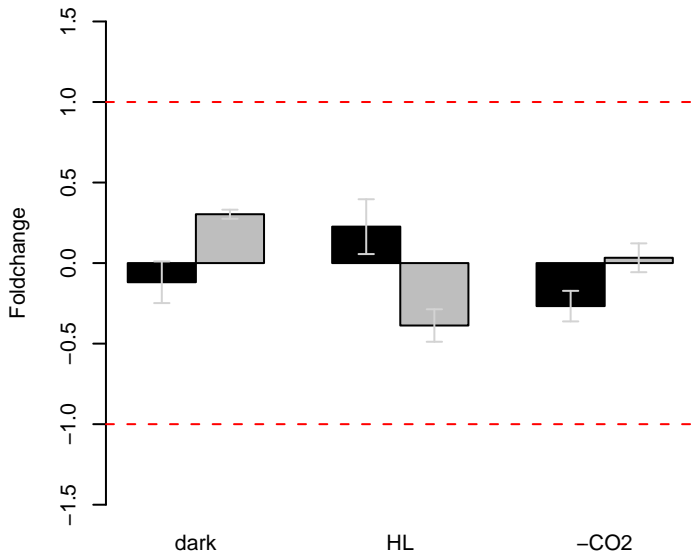
**sll1528**



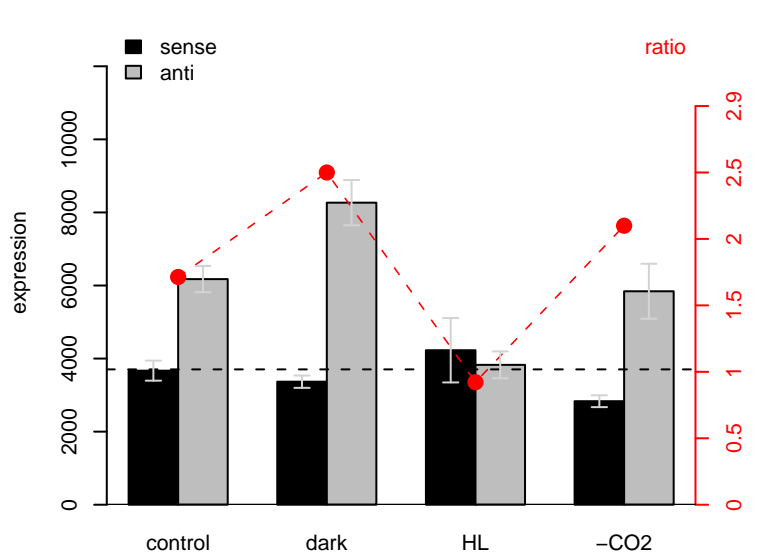
**genome\_2973**



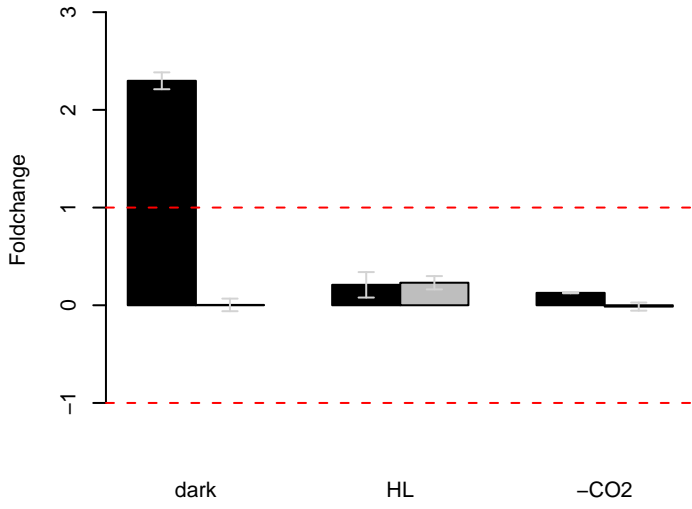
**sll1527**



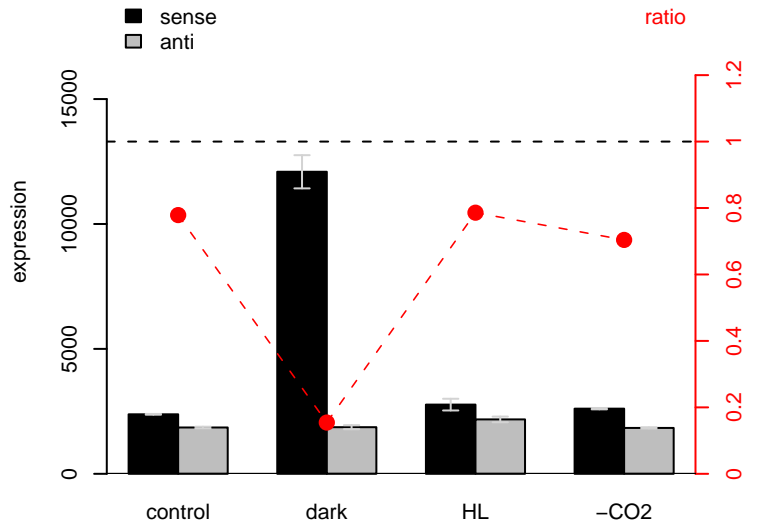
**genome\_2975**



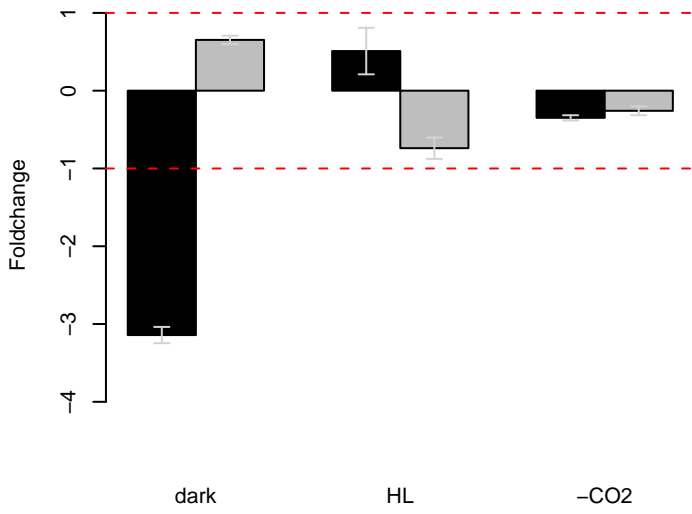
**clpB(slr1641)**



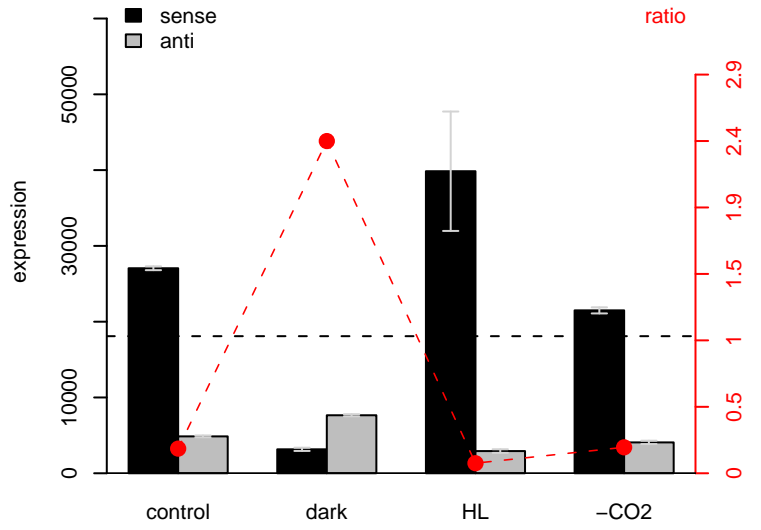
**genome\_2979**



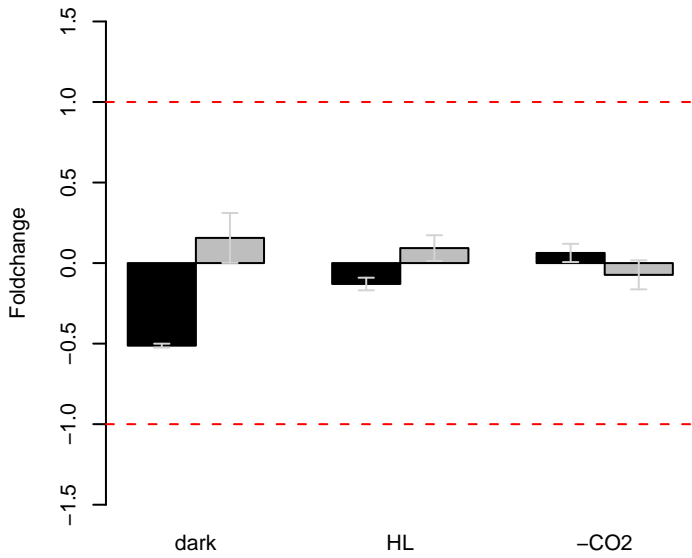
**prk(sll1525)**



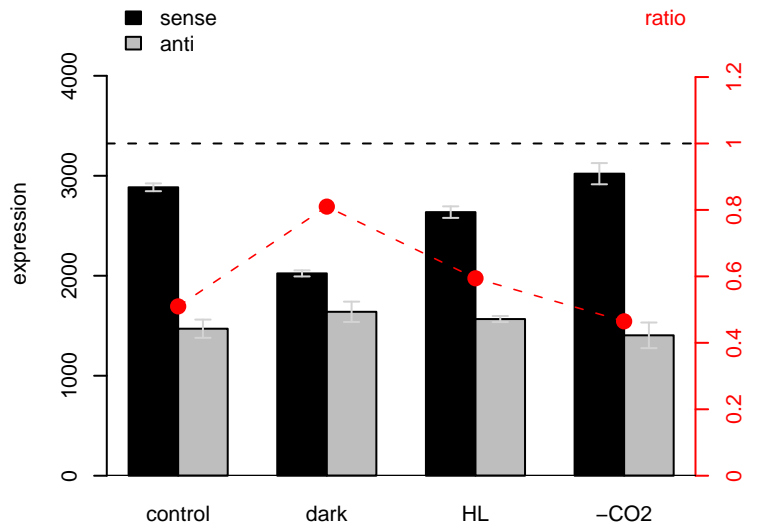
**genome\_2984**



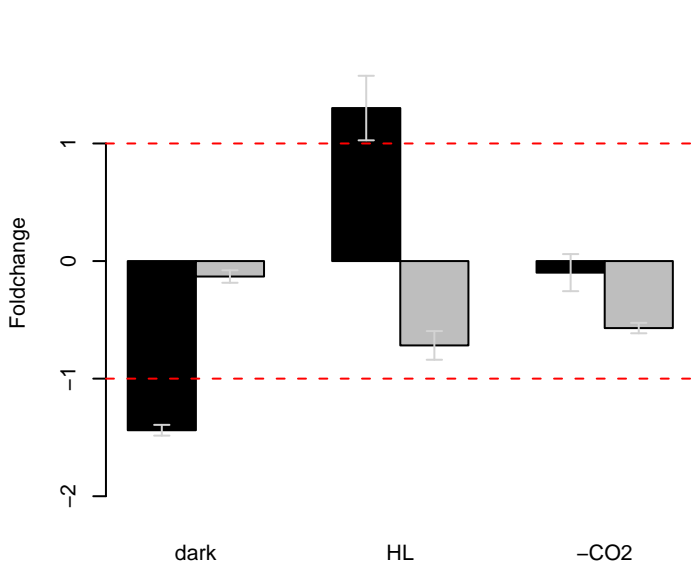
**slr1644**



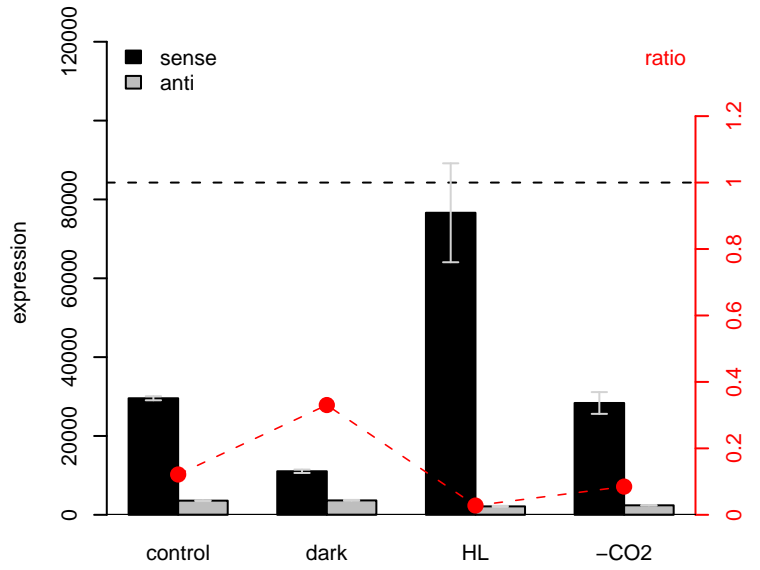
**genome\_2988**



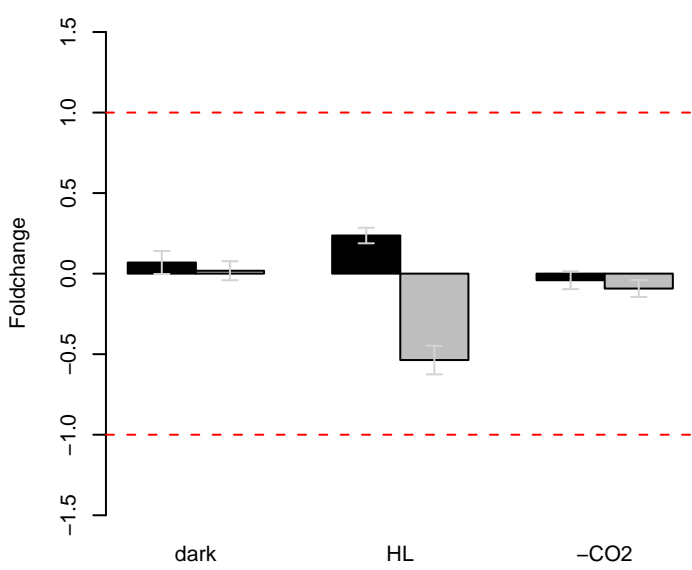
**ccmK(sll1029)**



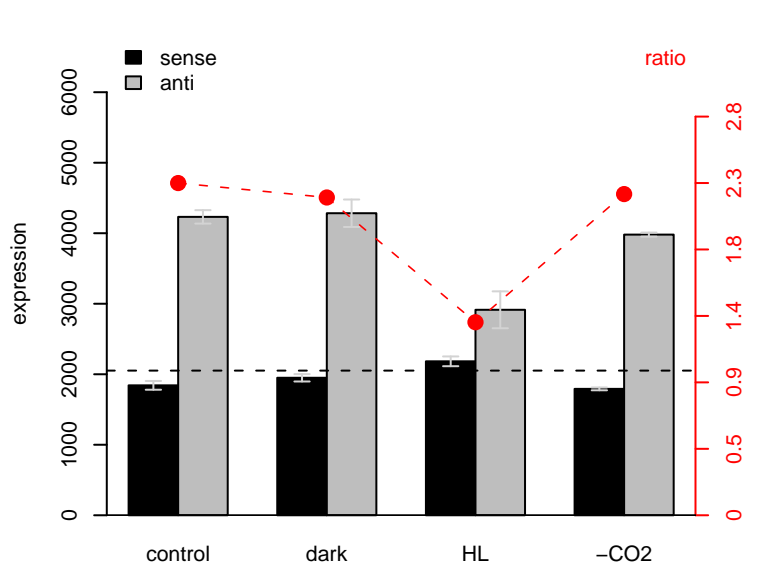
**genome\_298**



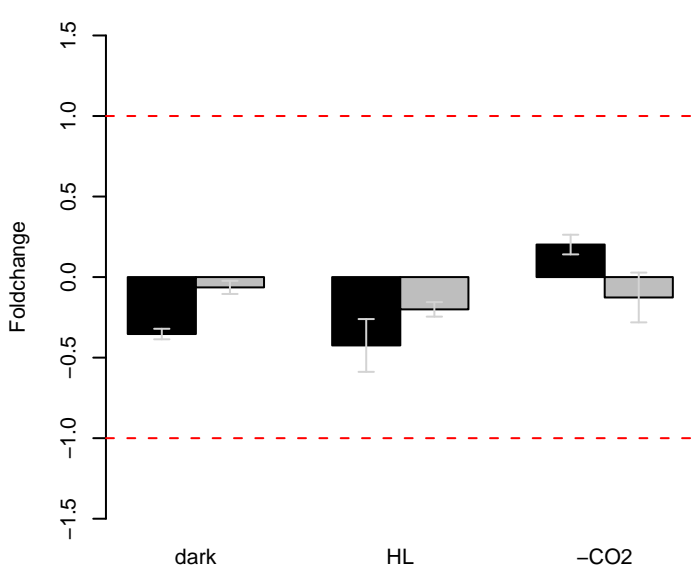
**slr1647**



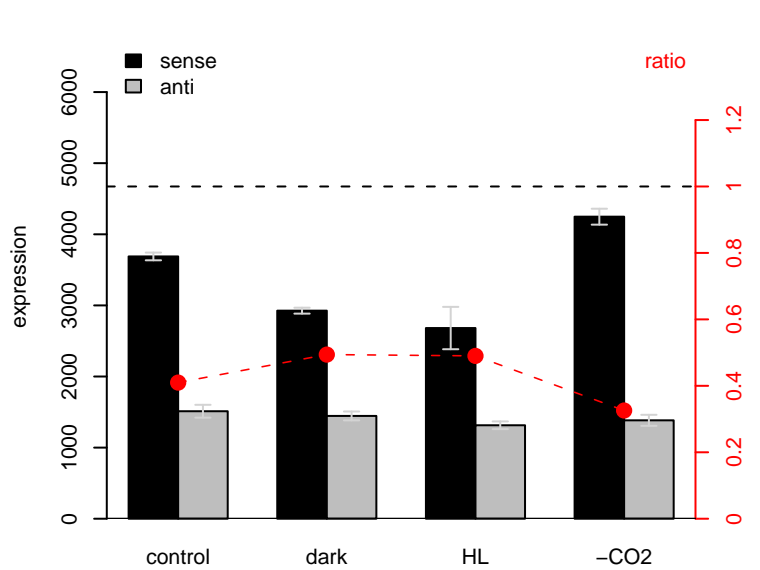
**genome\_2992**



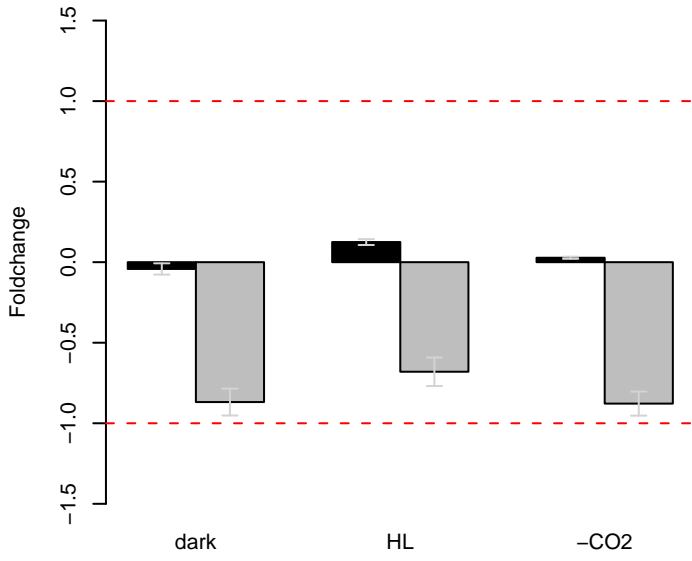
**ssr2754**



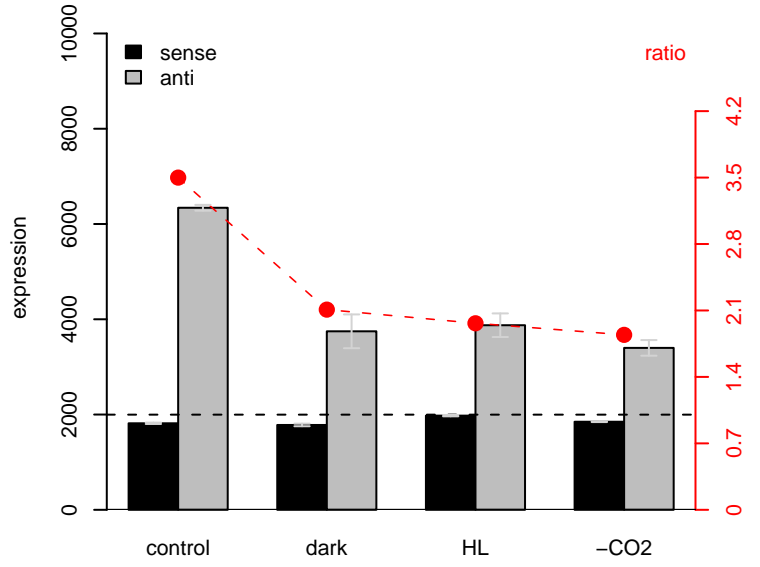
**genome\_2995**



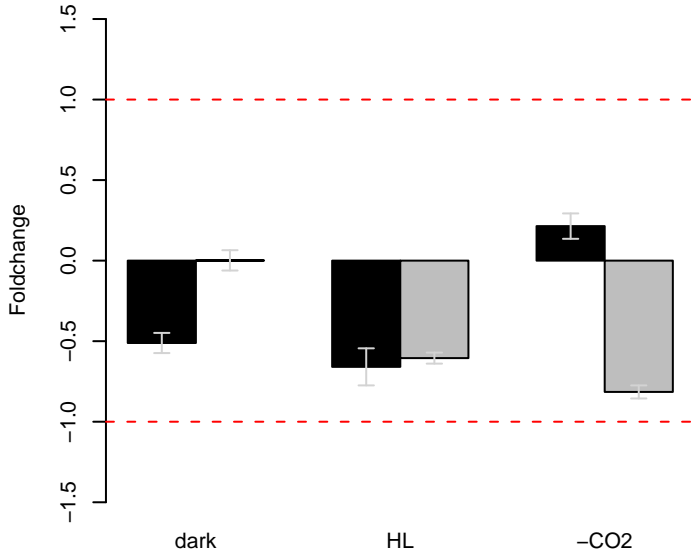
**pgsA(sll1522)**



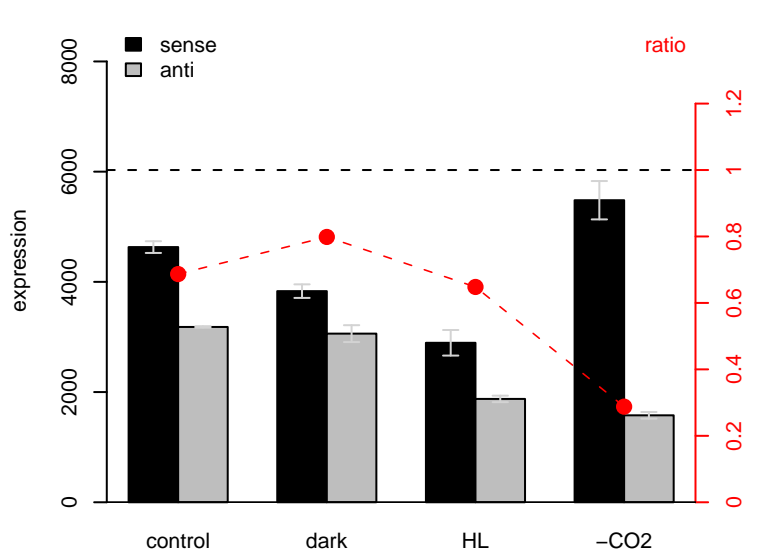
**genome\_2998**



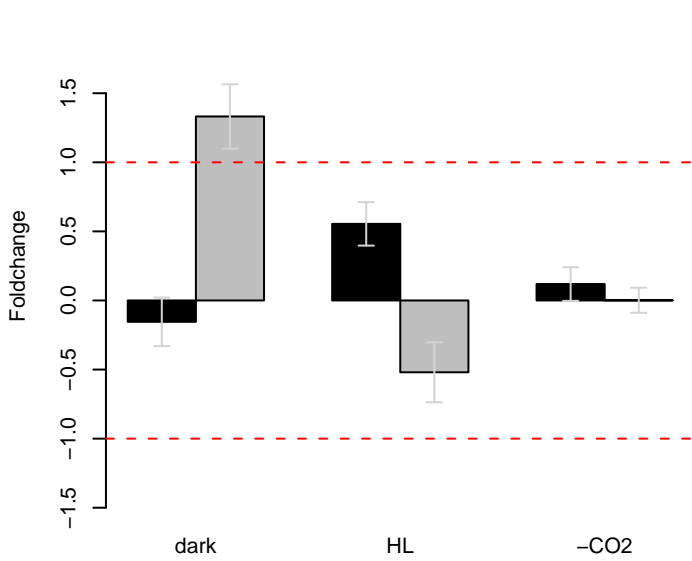
**gltD(sll1027)**



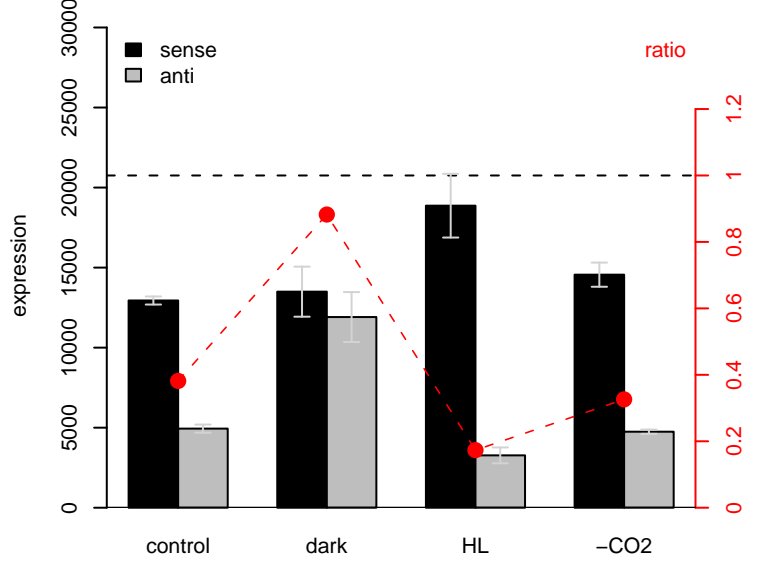
**genome\_302**

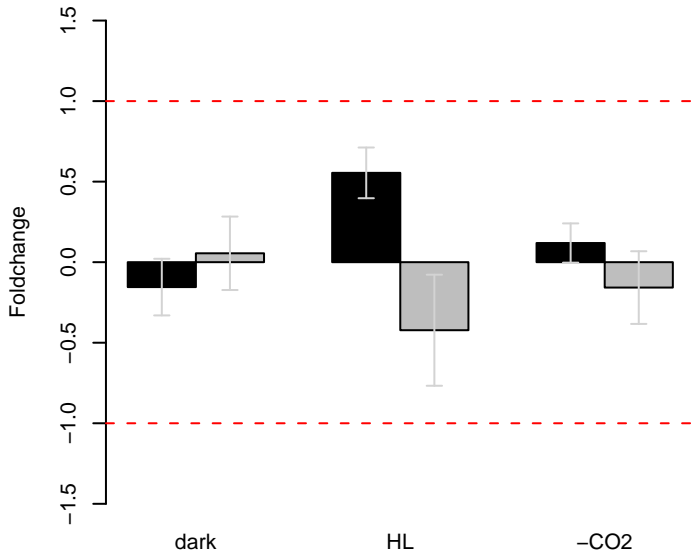
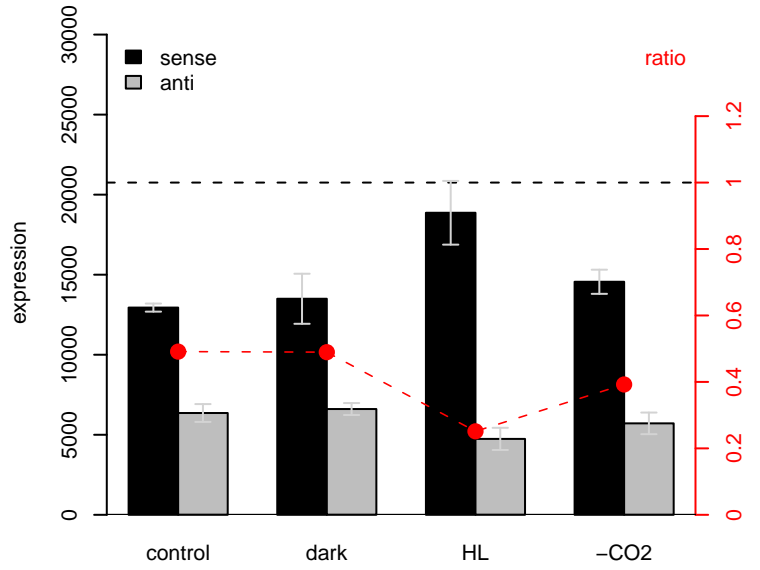
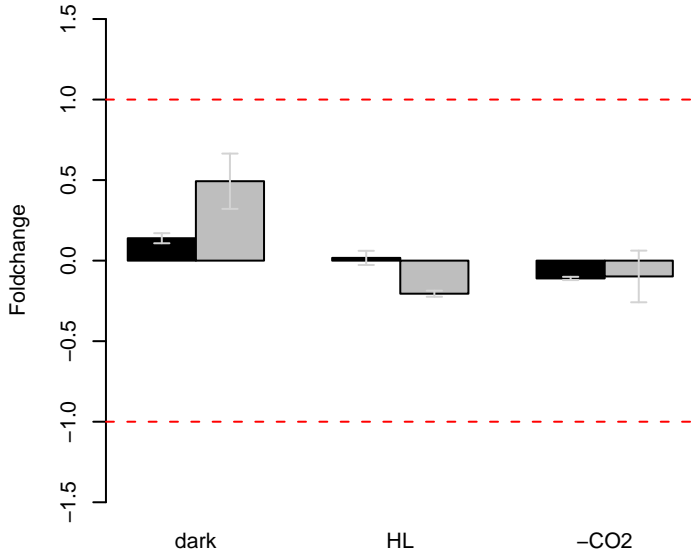
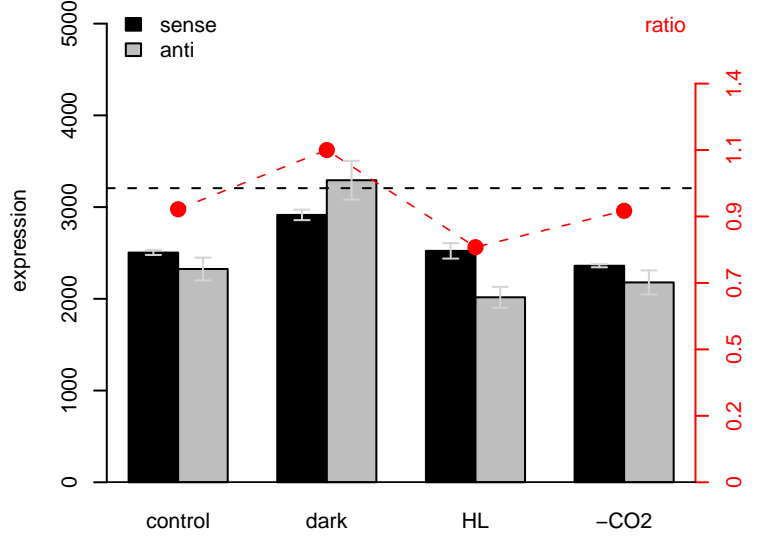
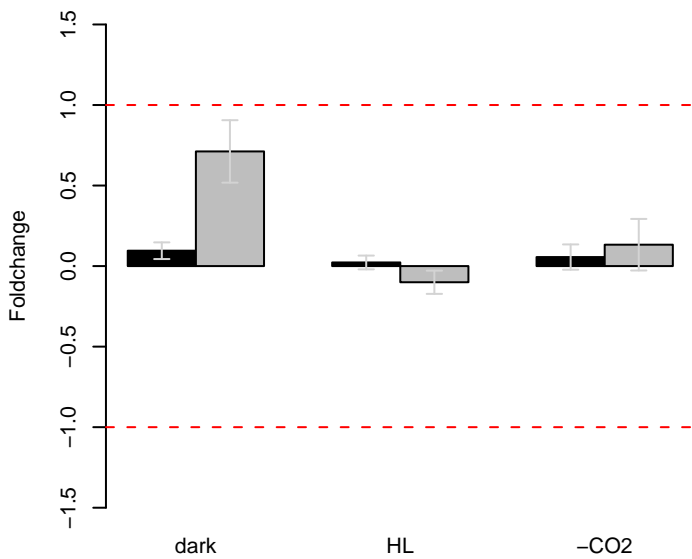
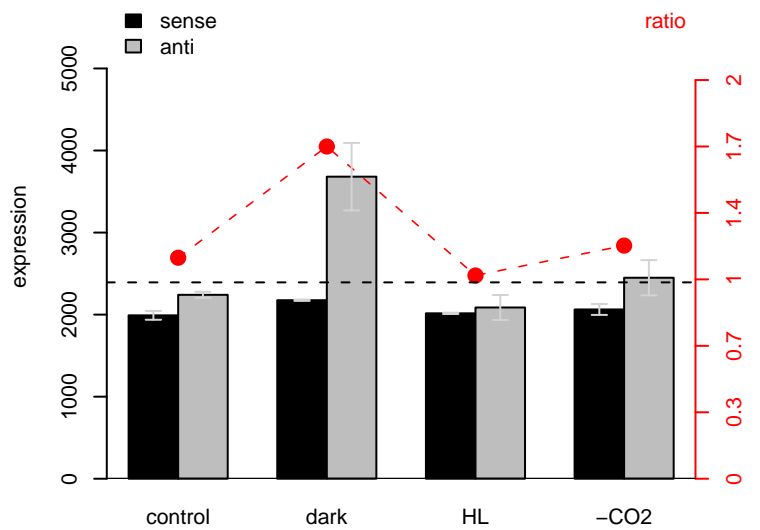


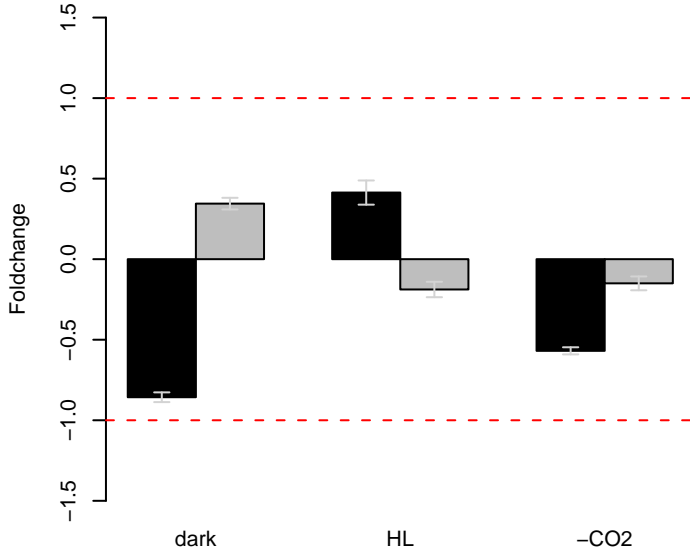
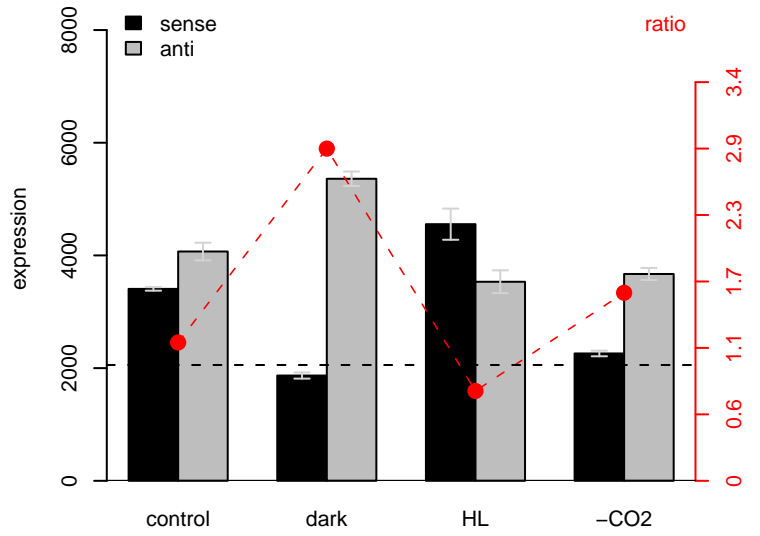
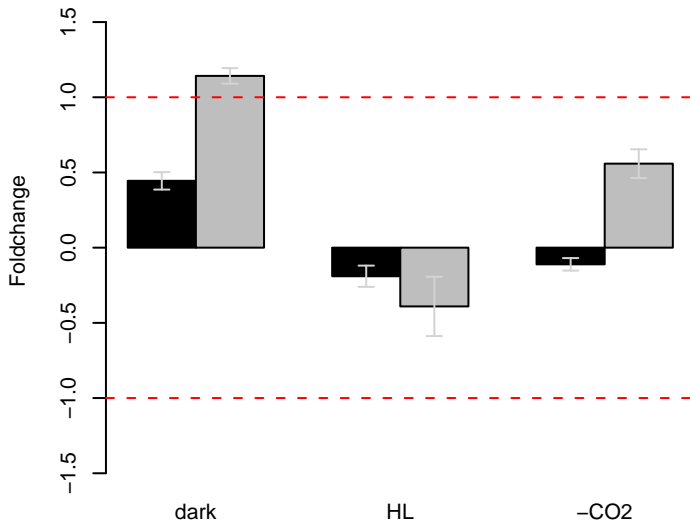
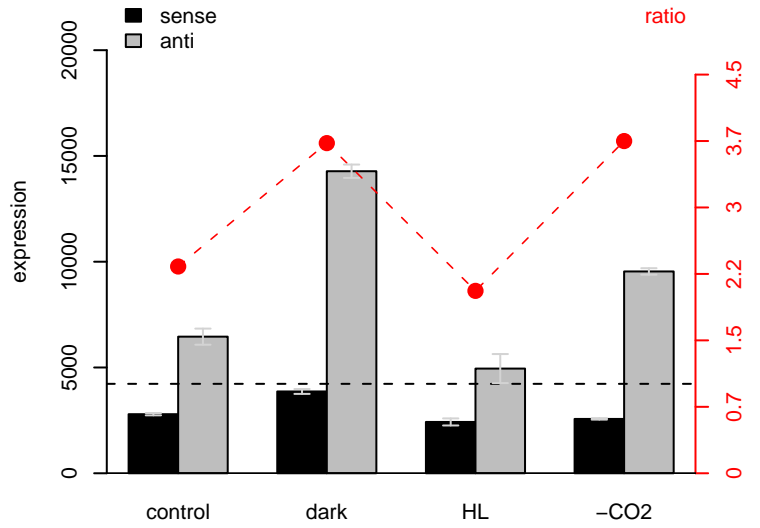
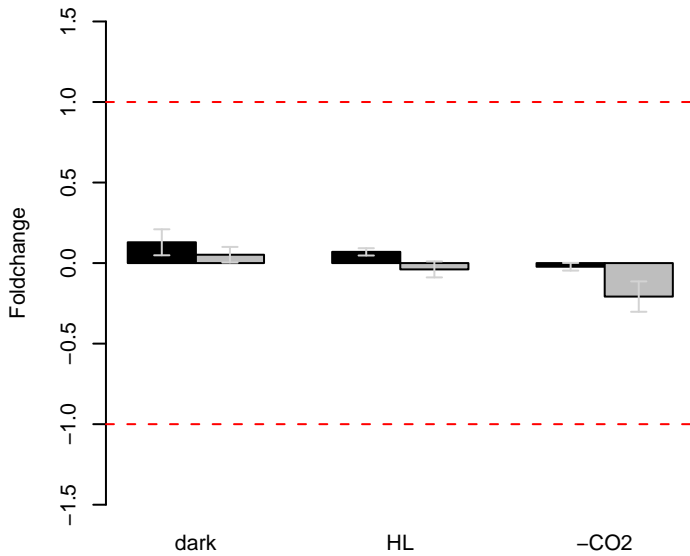
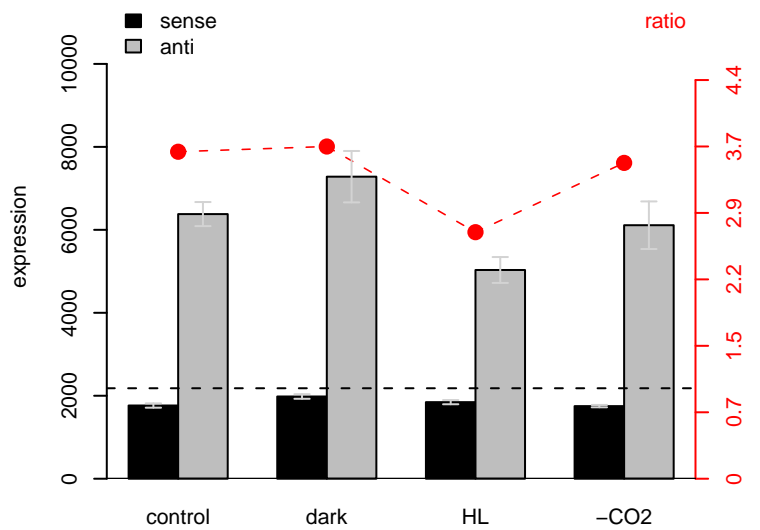
**slr0442**



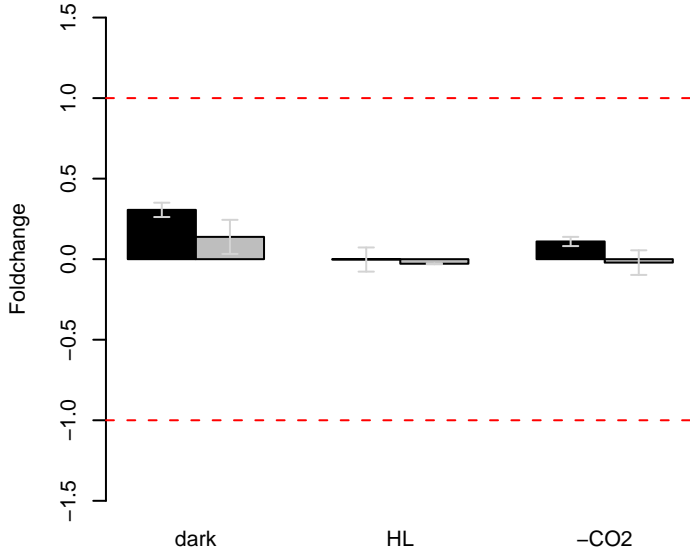
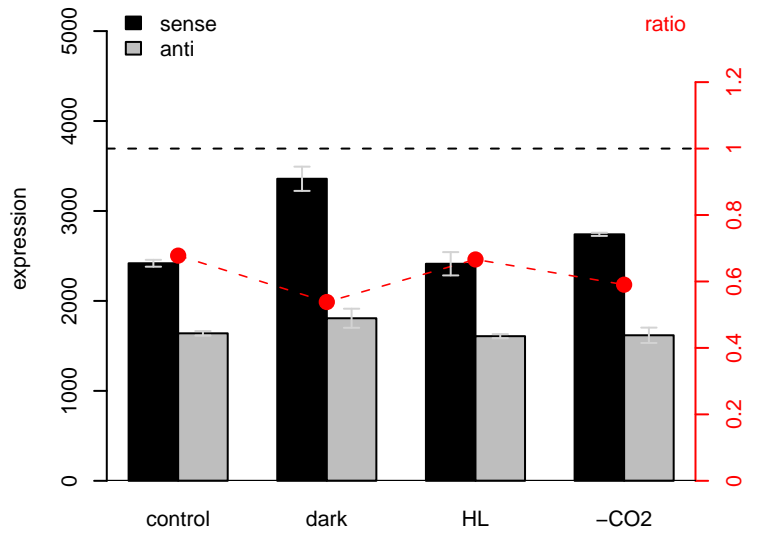
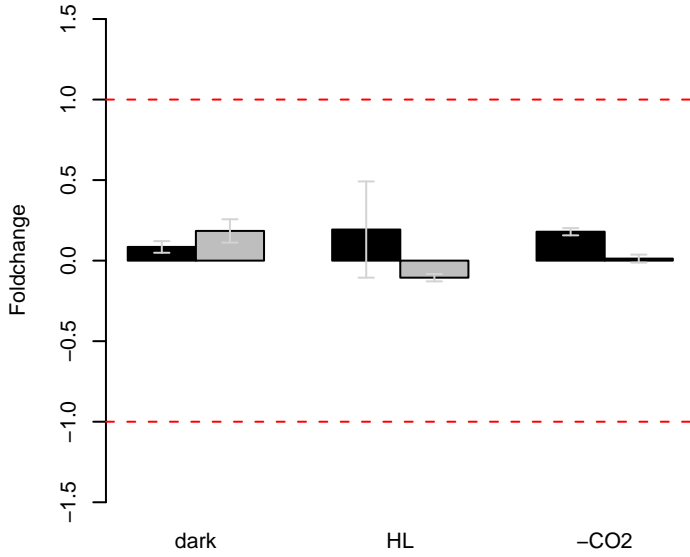
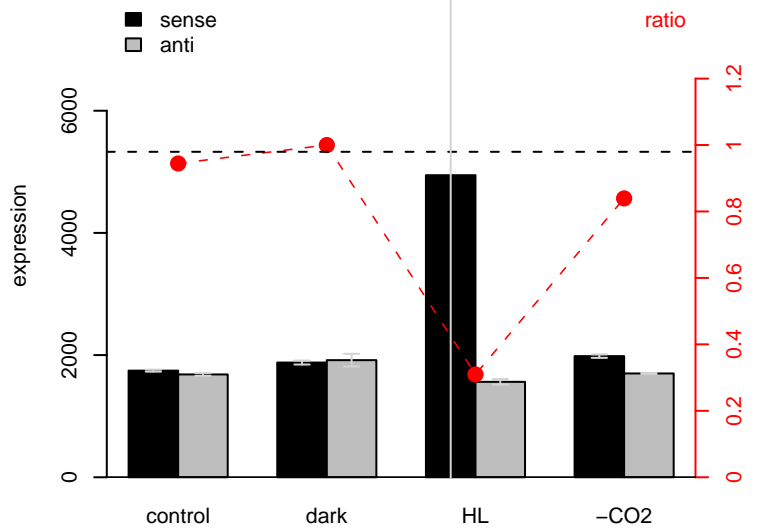
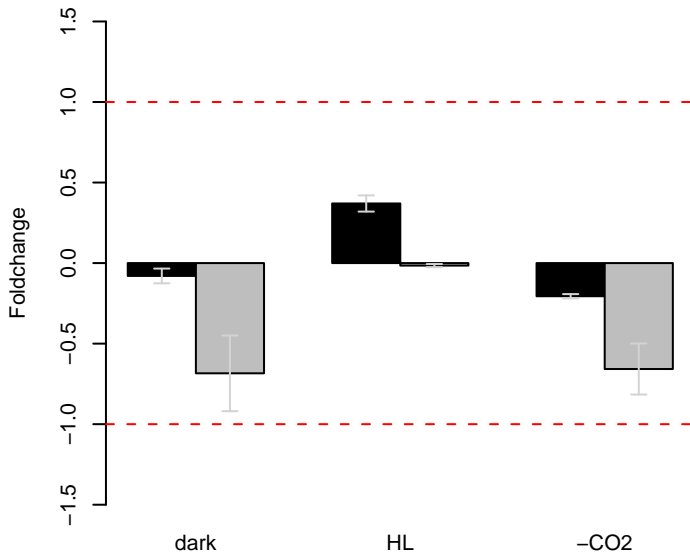
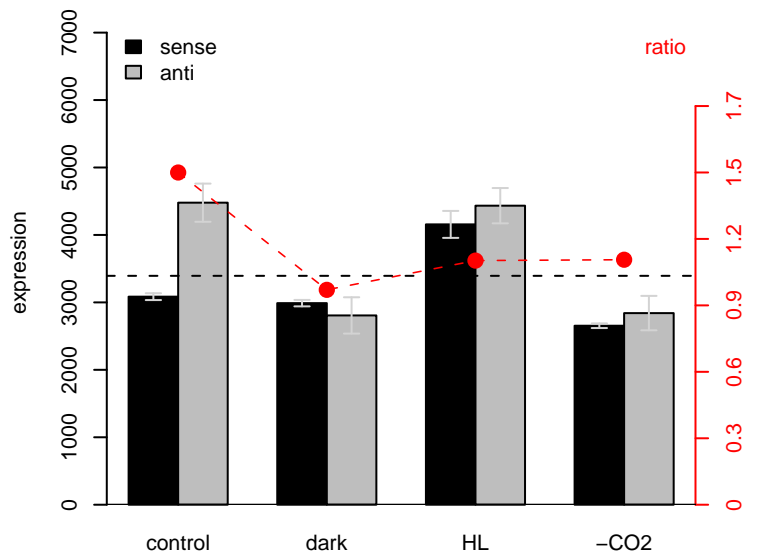
**genome\_3002**

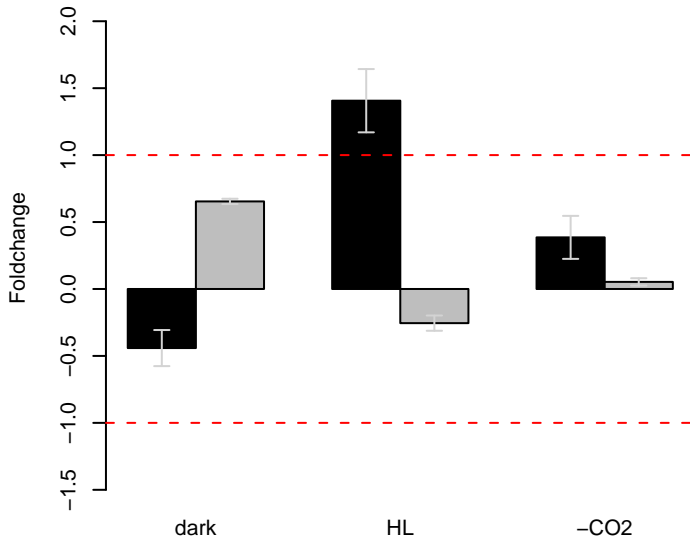
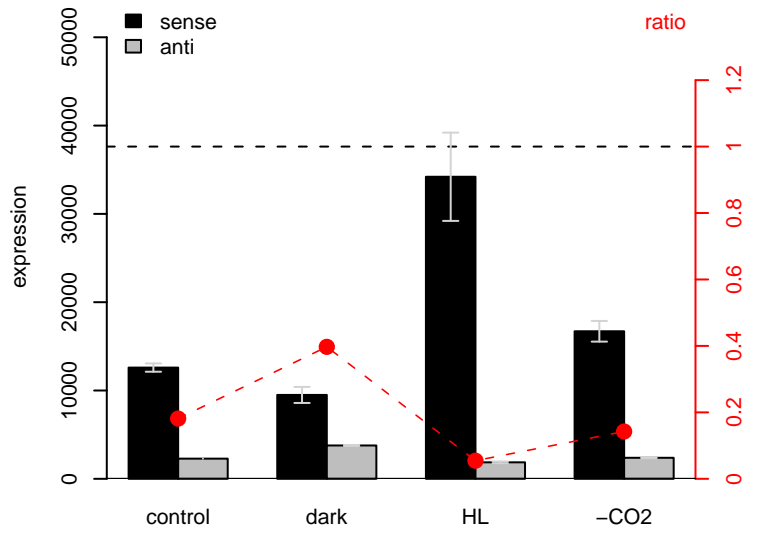
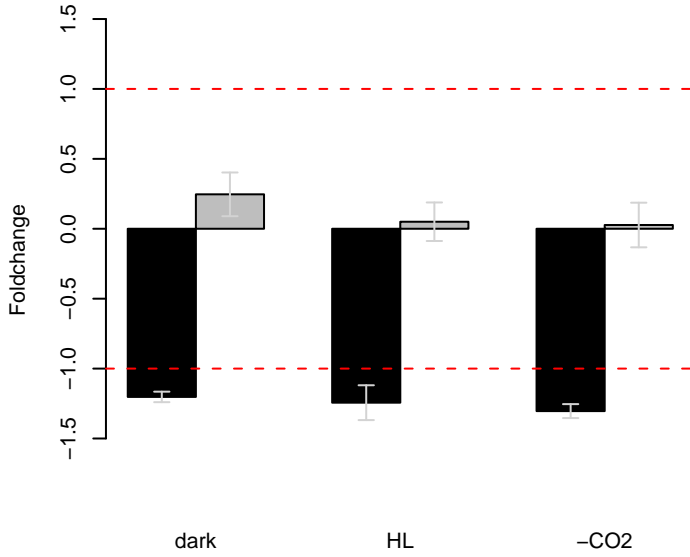
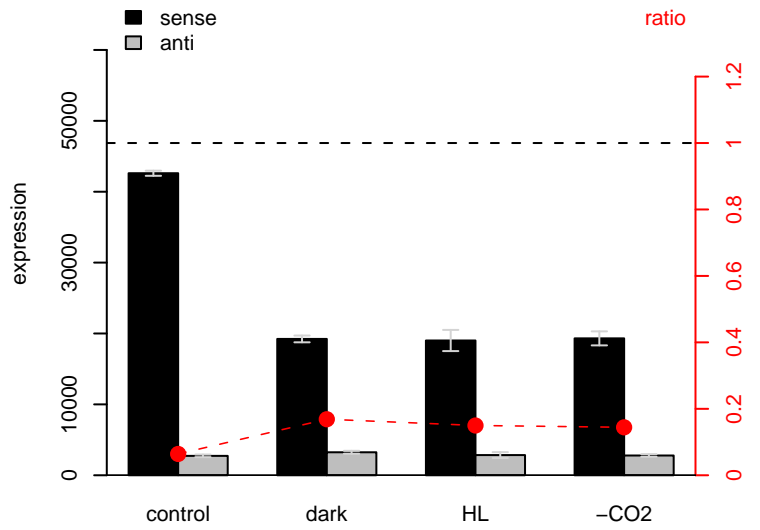
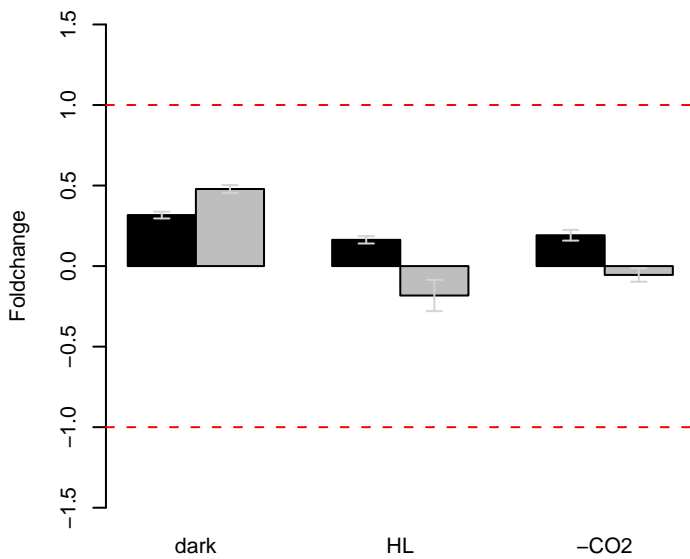
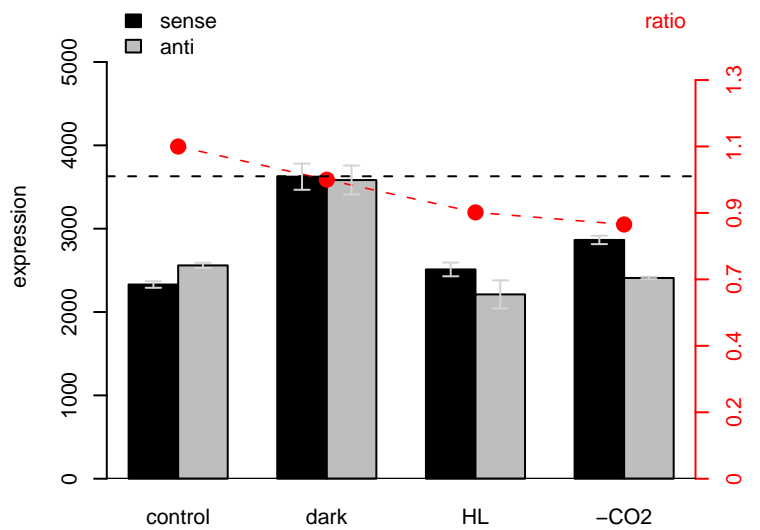


**slr0442****genome\_3002****aroA(slr0444)****genome\_3020****slr0424****genome\_3022**

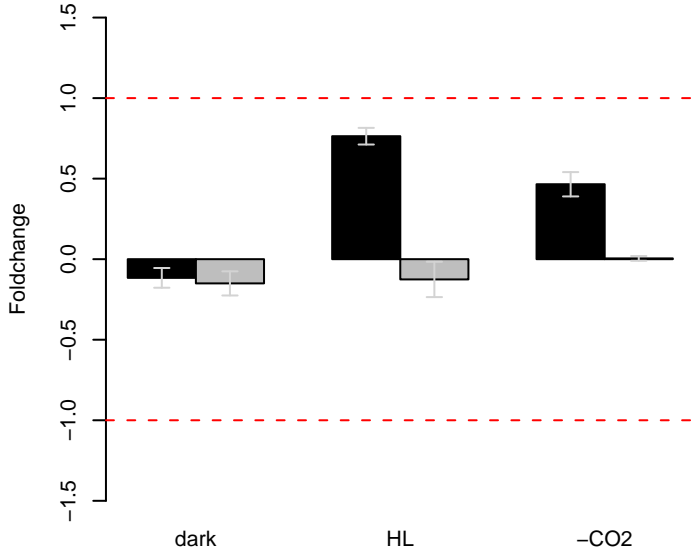
**purB(sII0421)****genome\_3027****nusB(sII0271)****genome\_3041****priA(sII0270)****genome\_3043**



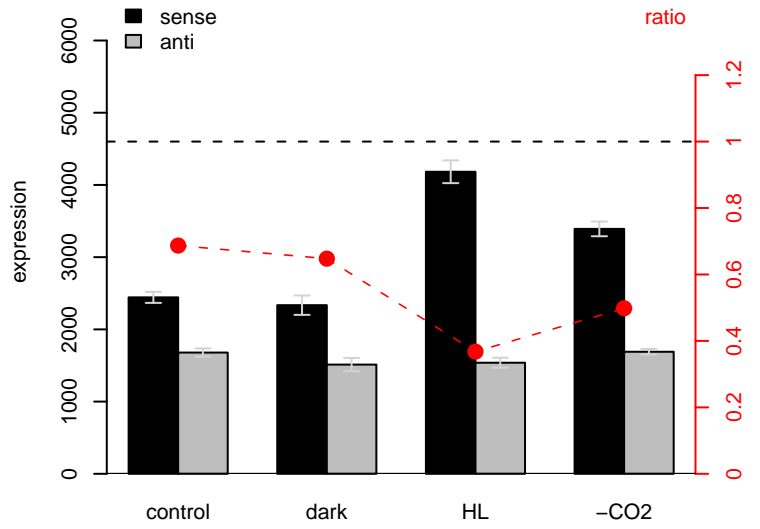
**ank(slr1109)****genome\_304****slI0265****genome\_3051****slI0263****genome\_3053**

**slr0287****genome\_3066****psbV(sll0258)****genome\_3071****sll0257****genome\_3076**

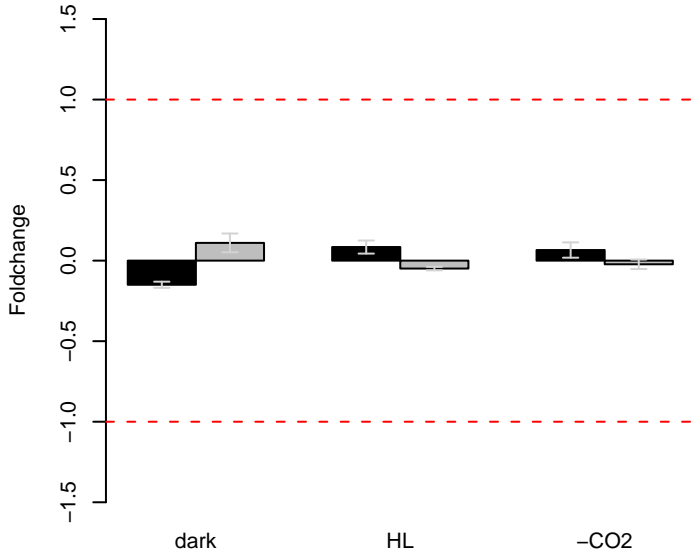
**gcvP(slr0293)**



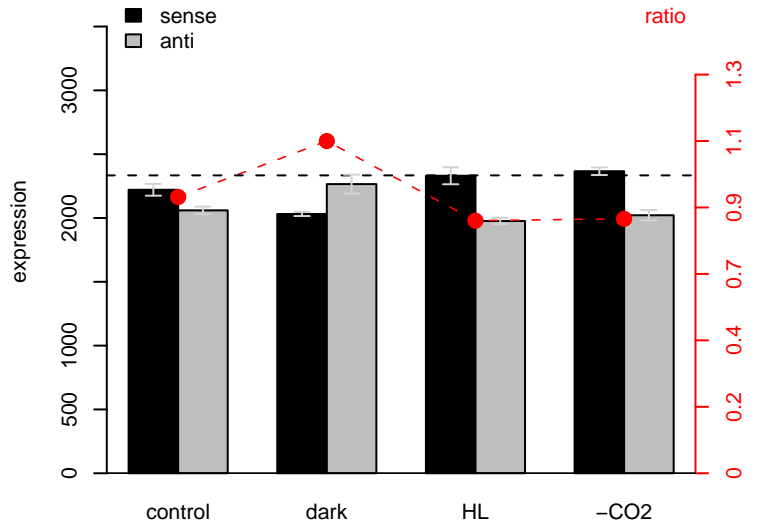
**genome\_3079**



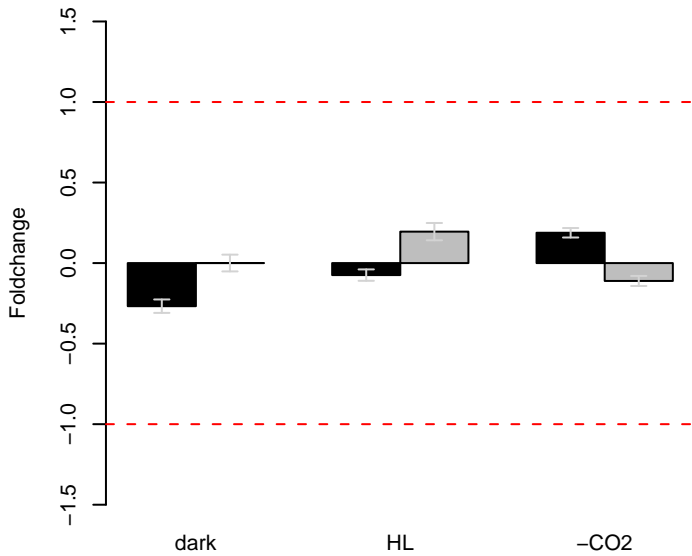
**slr1686**



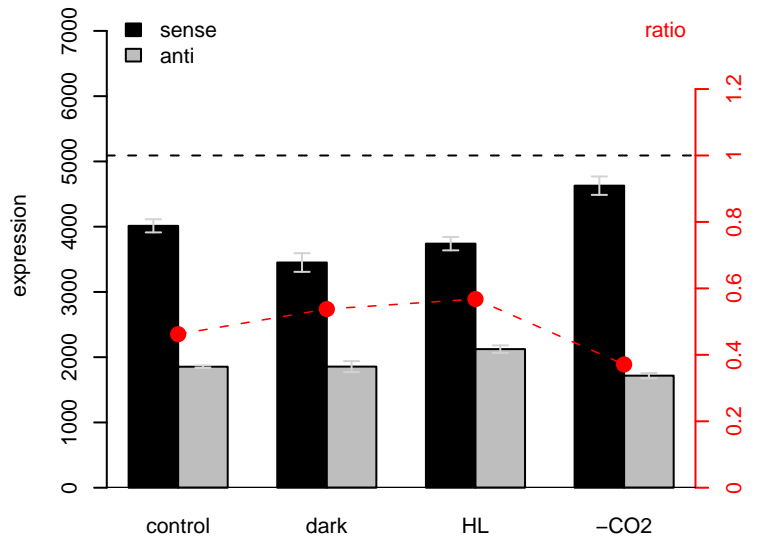
**genome\_308**

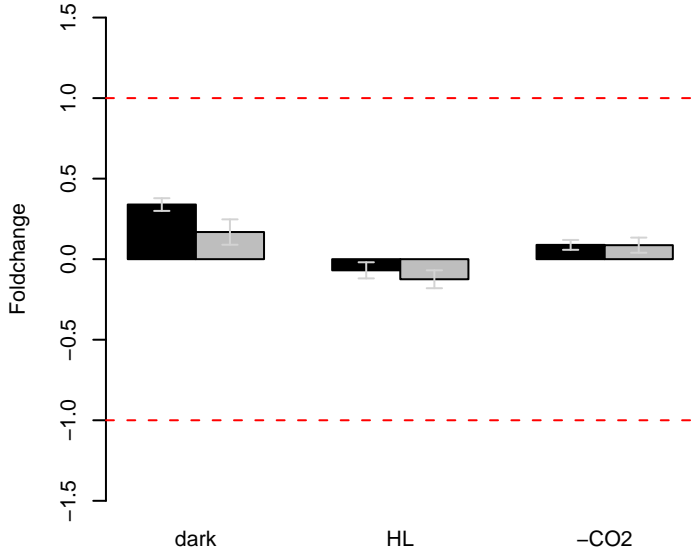
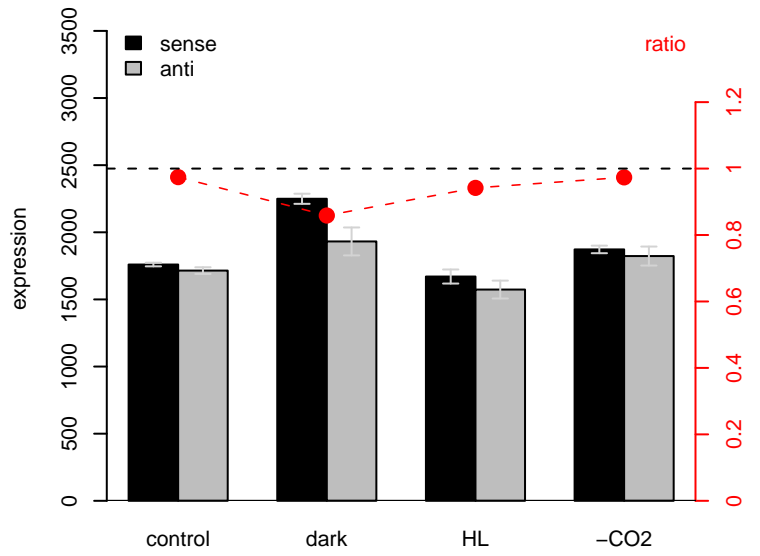
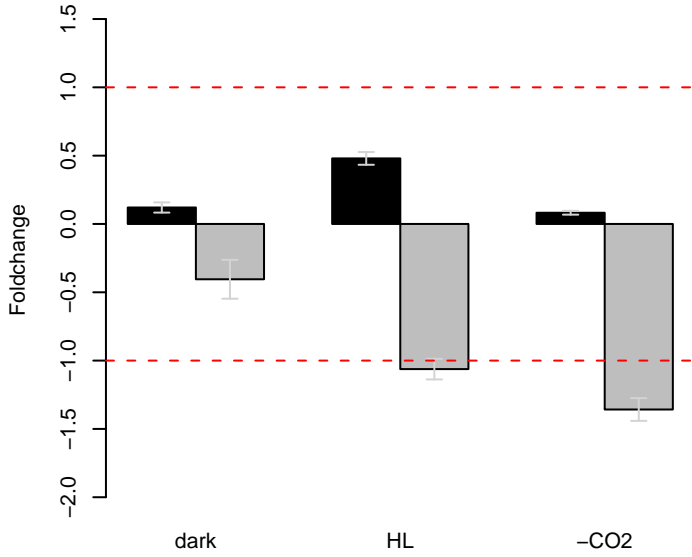
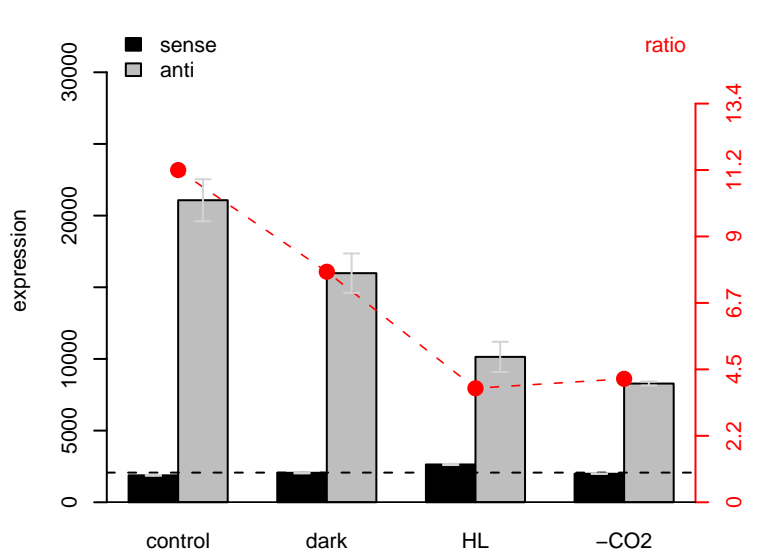
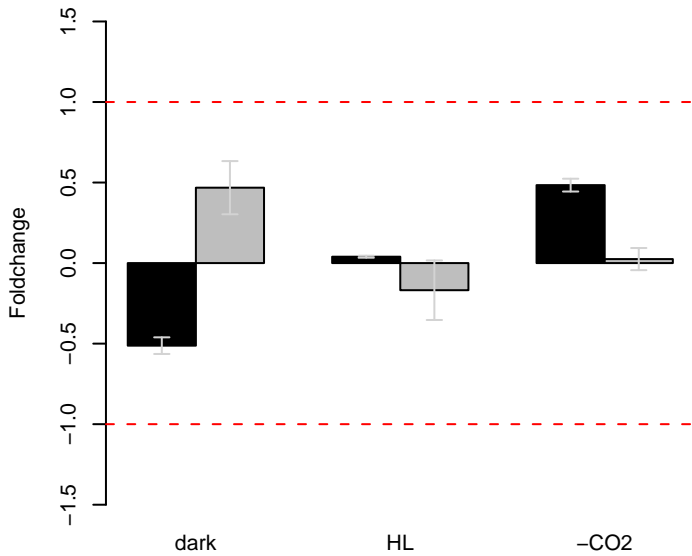
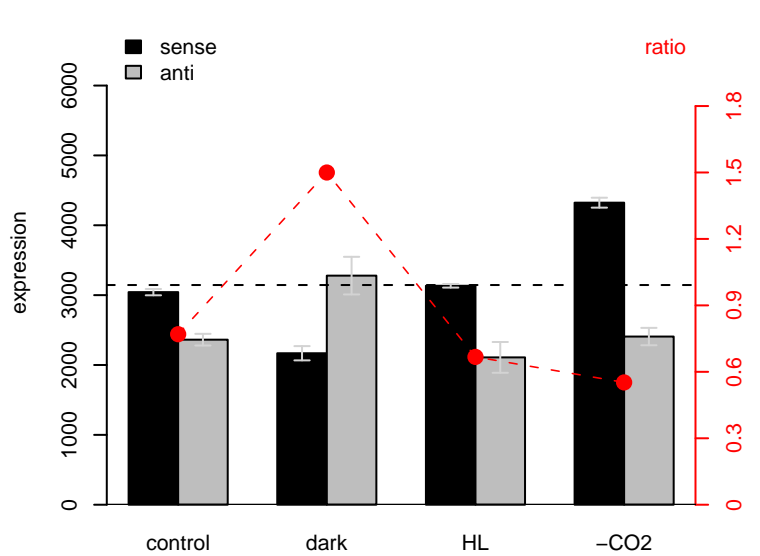


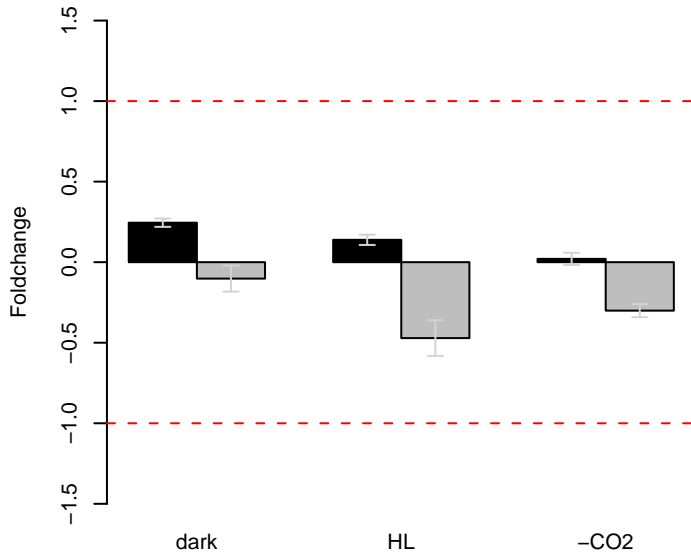
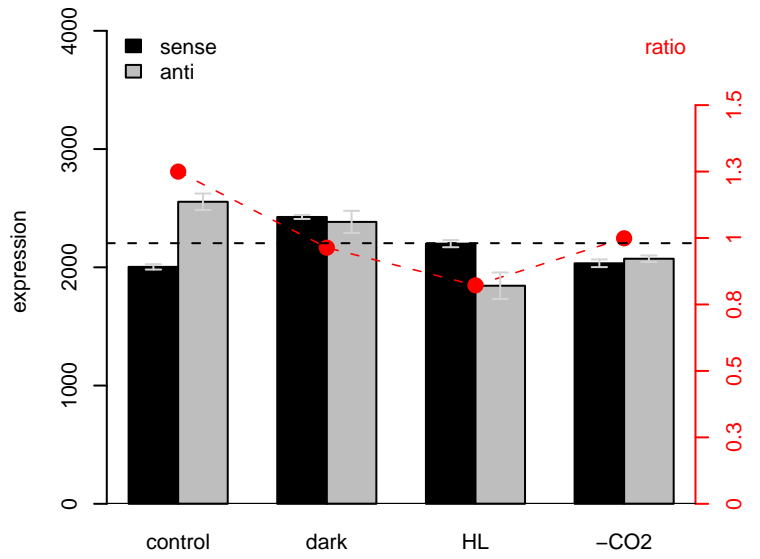
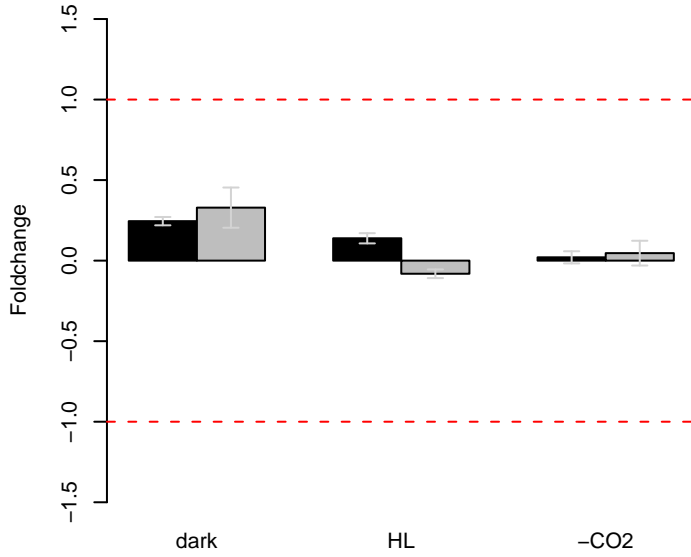
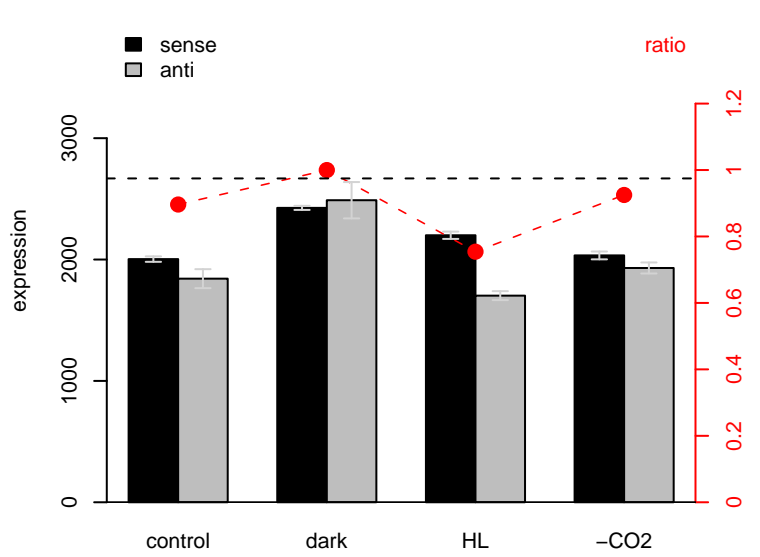
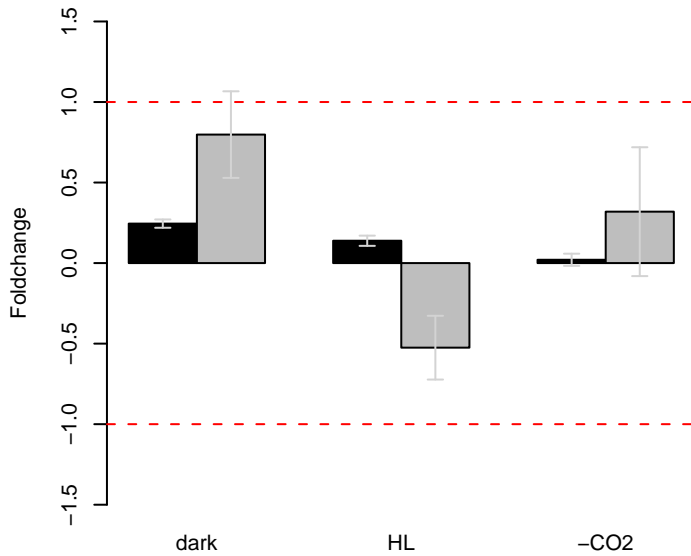
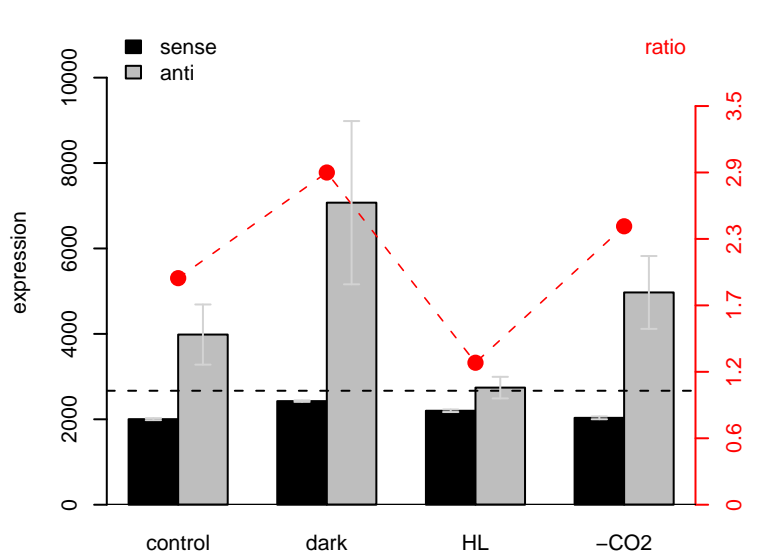
**slr0398**

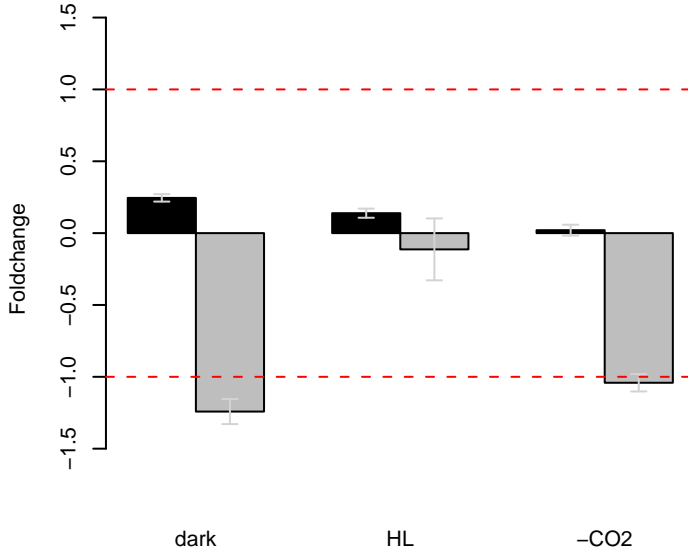
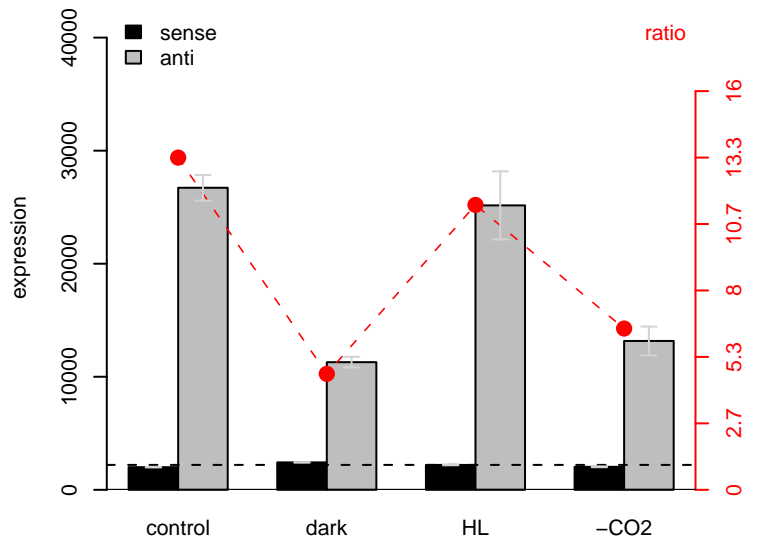
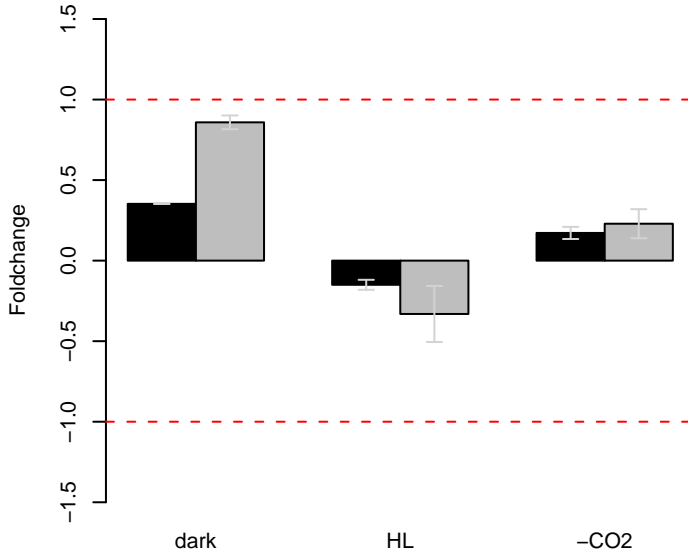
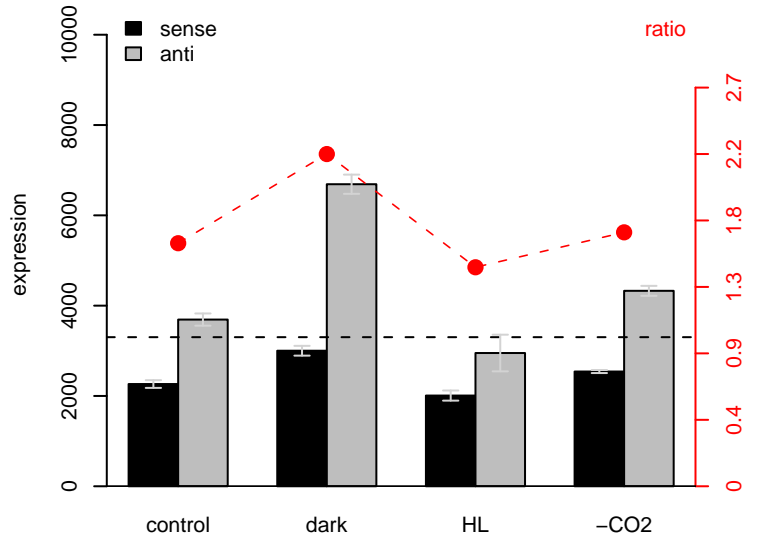
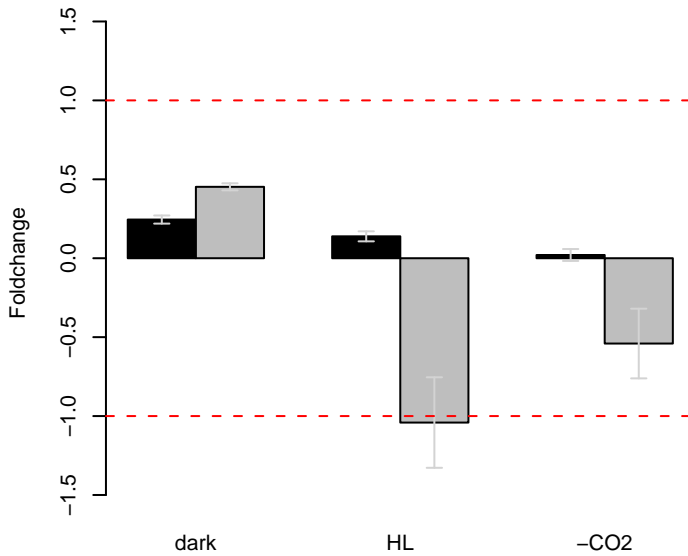
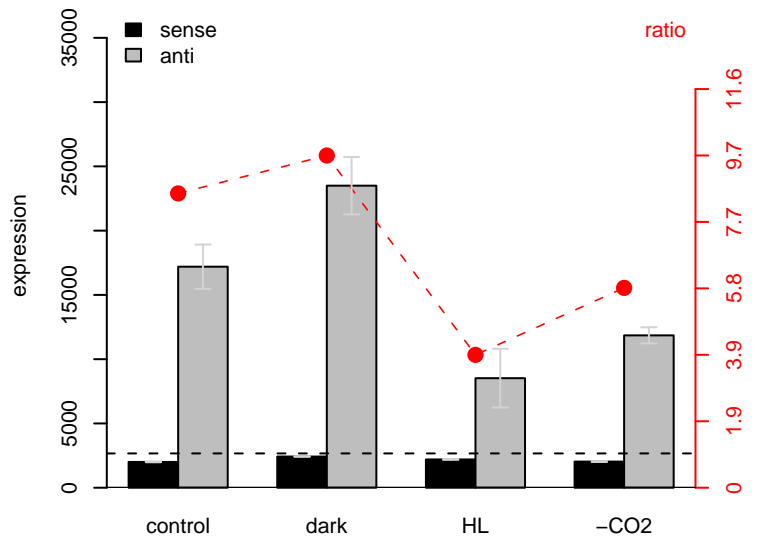


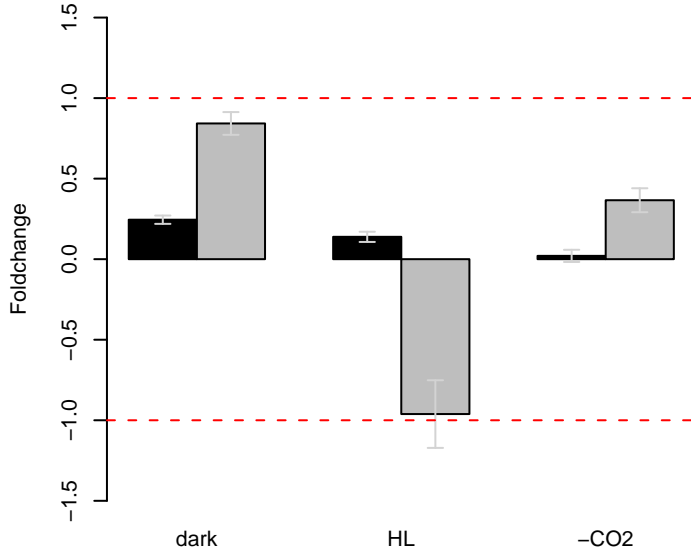
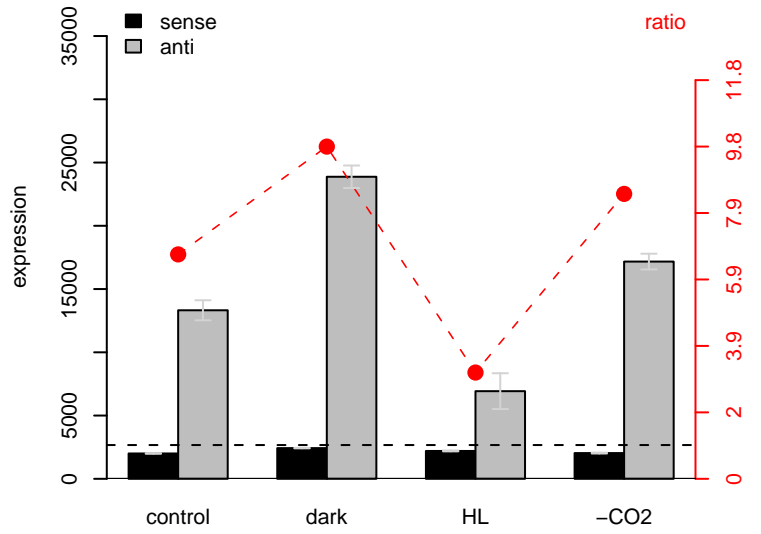
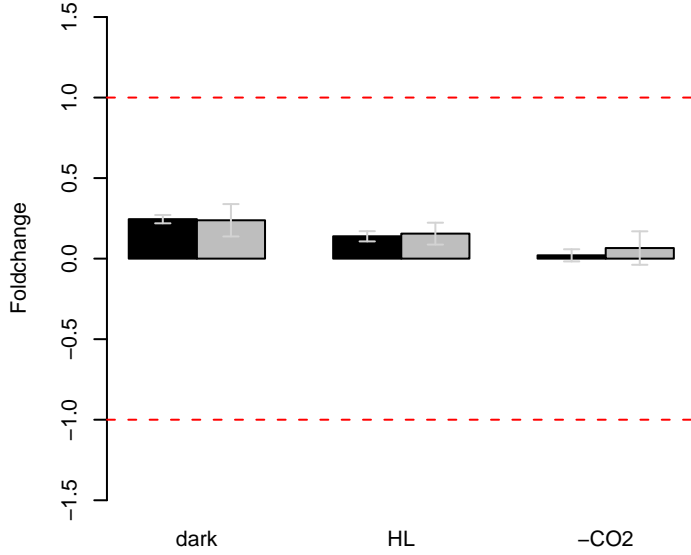
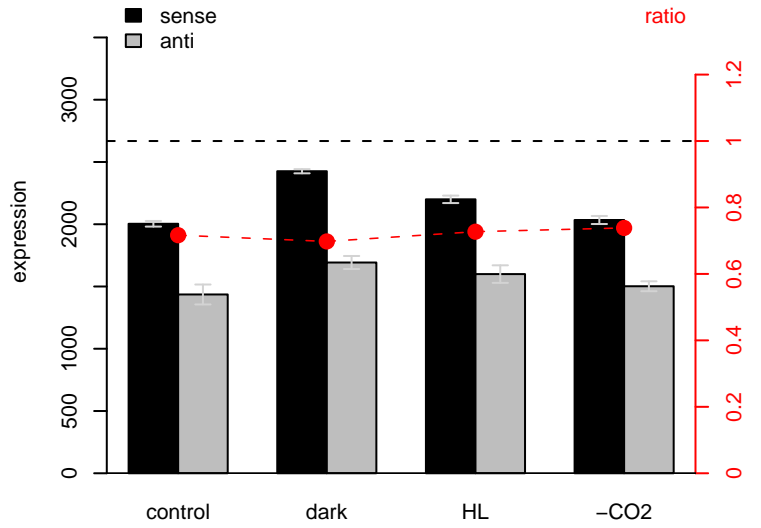
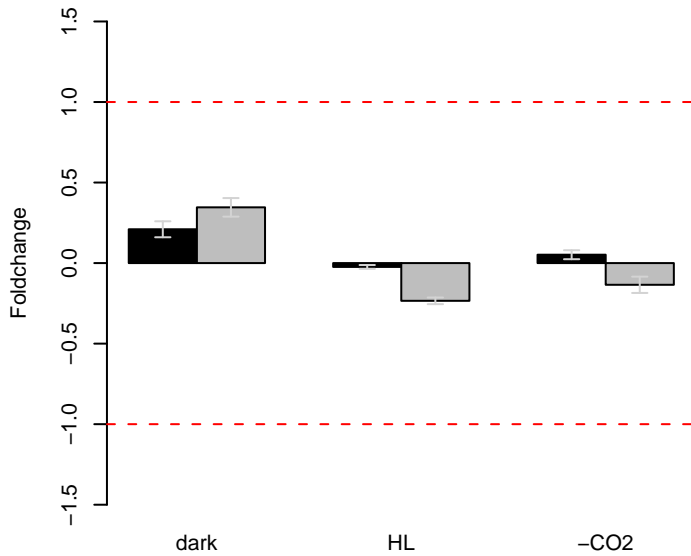
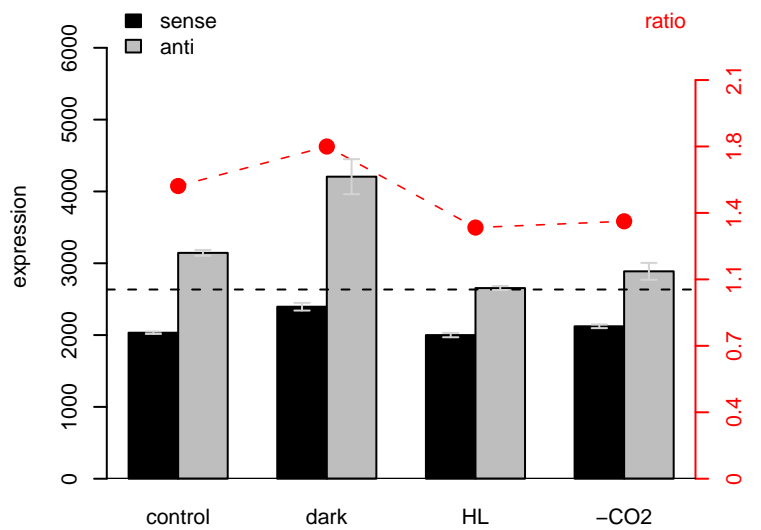
**genome\_3094**

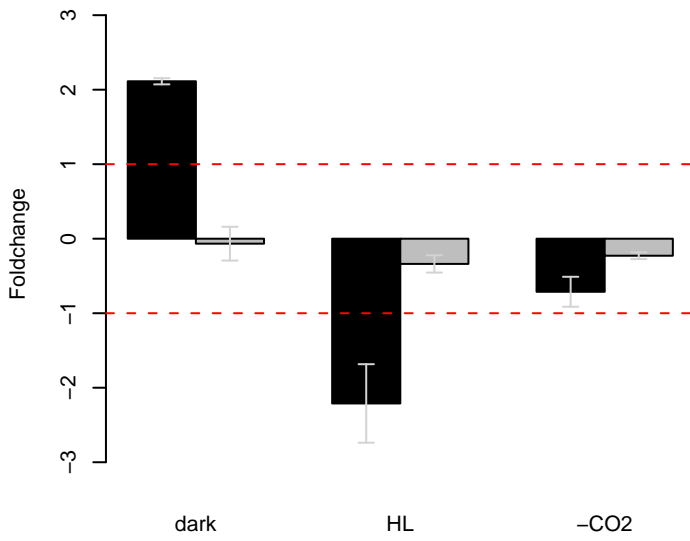
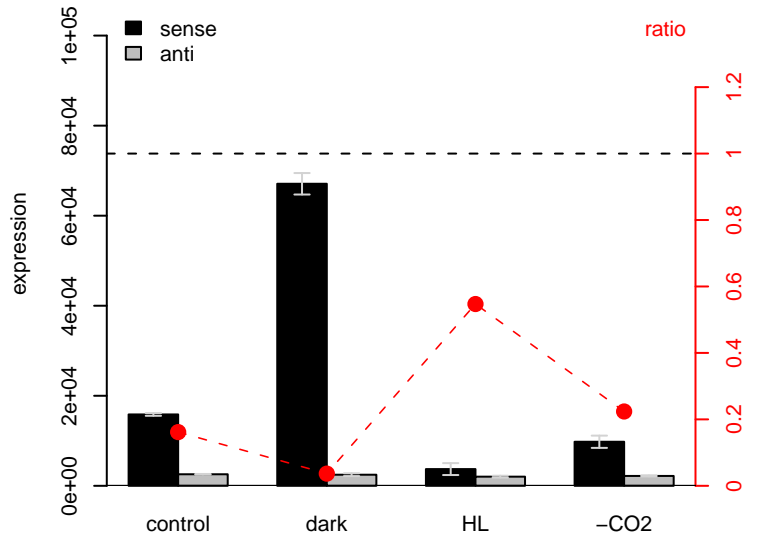
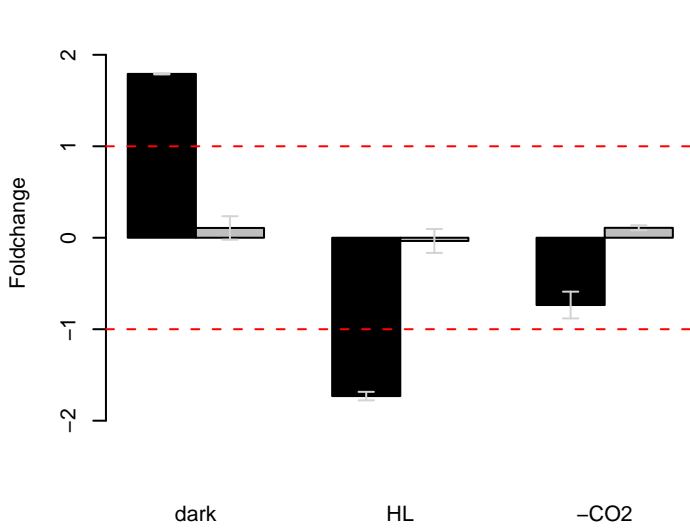
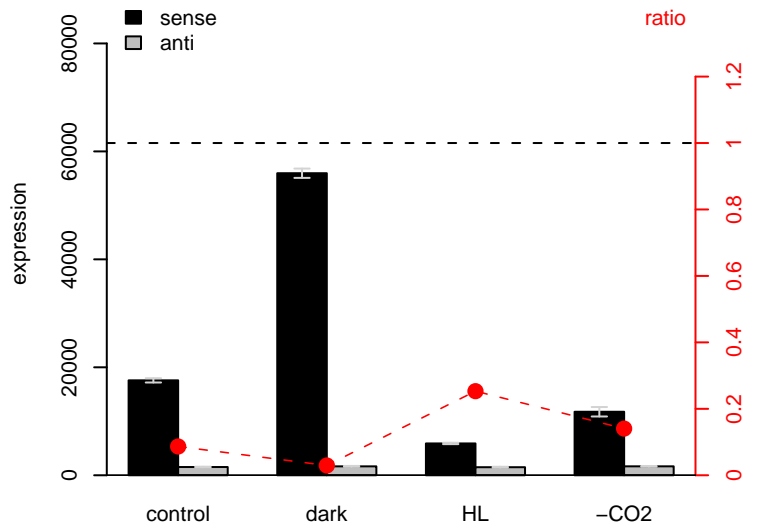
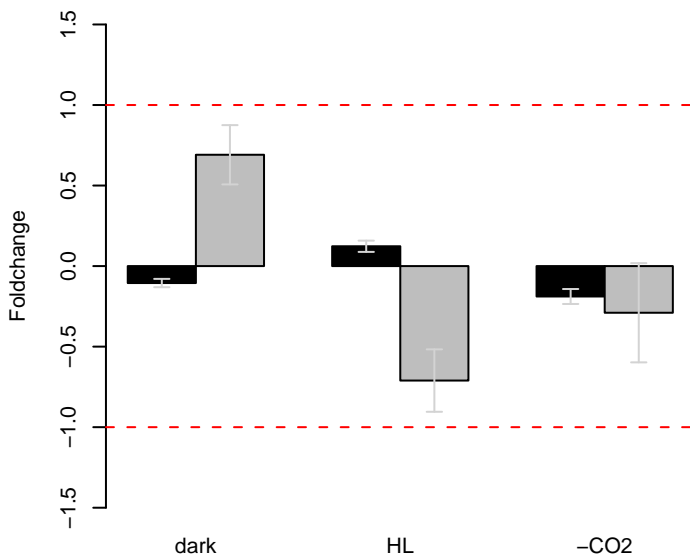
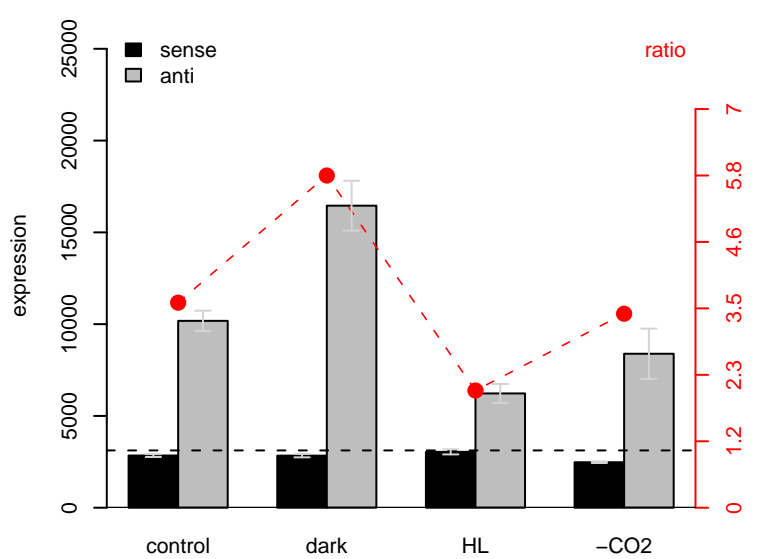


**fhuA(sll1409)****genome\_30****slr0402****genome\_3100****sll0354****genome\_3109**

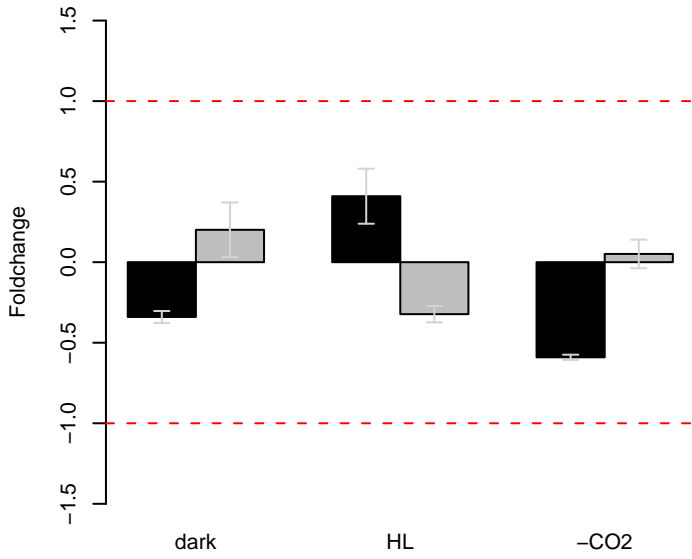
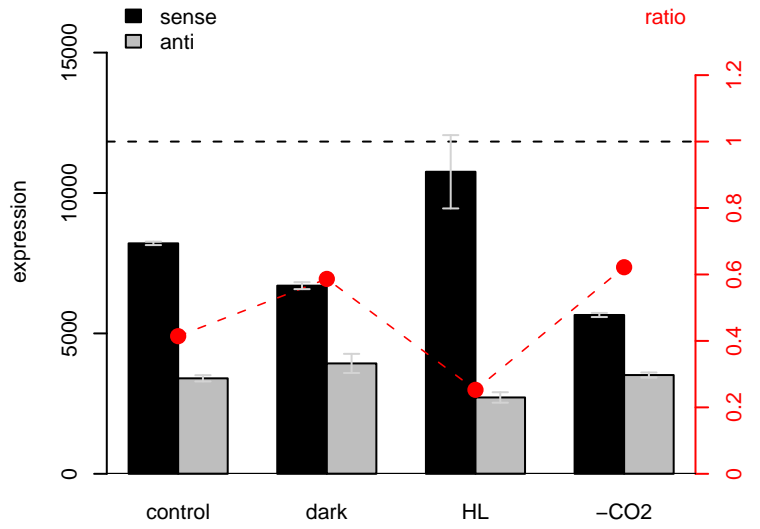
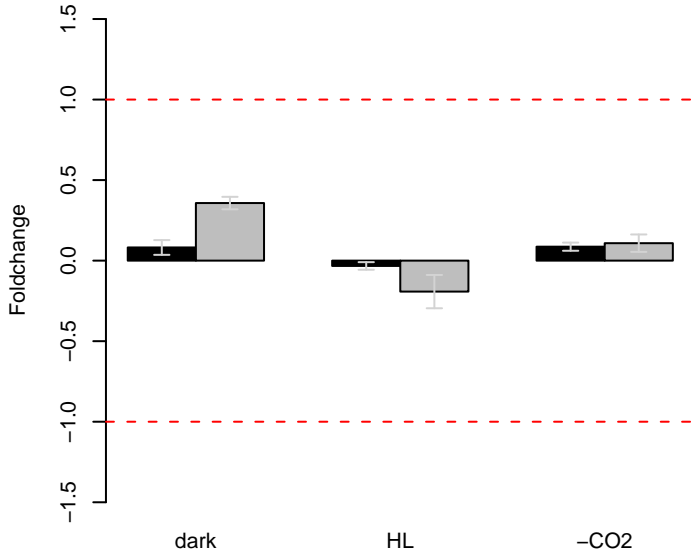
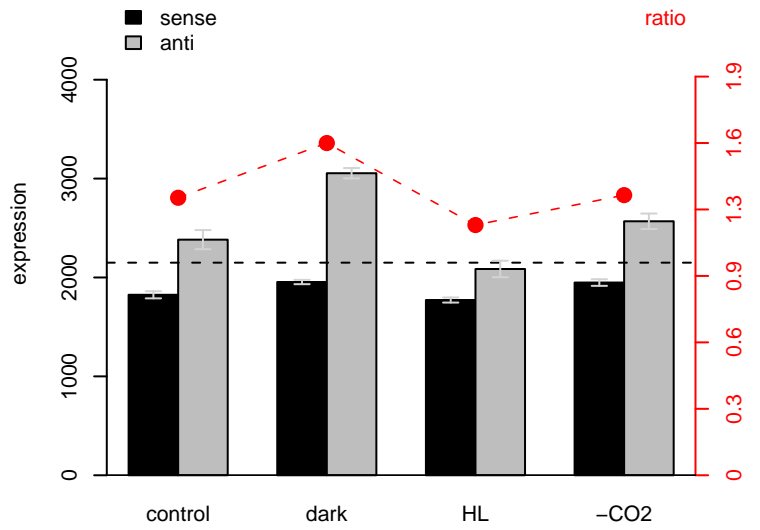
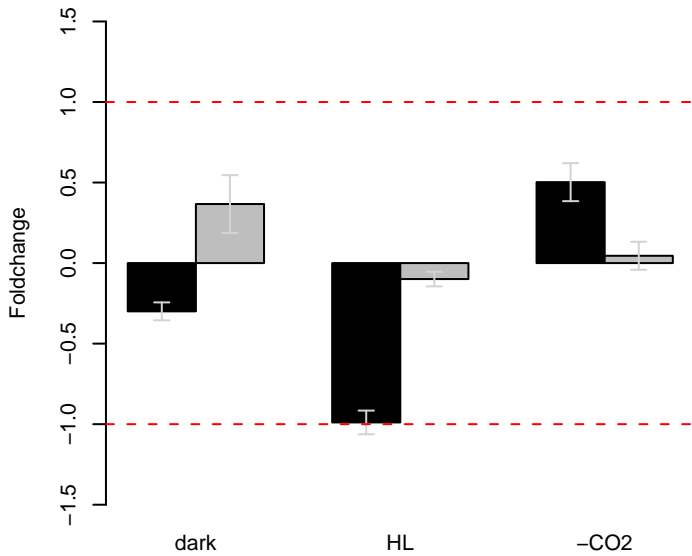
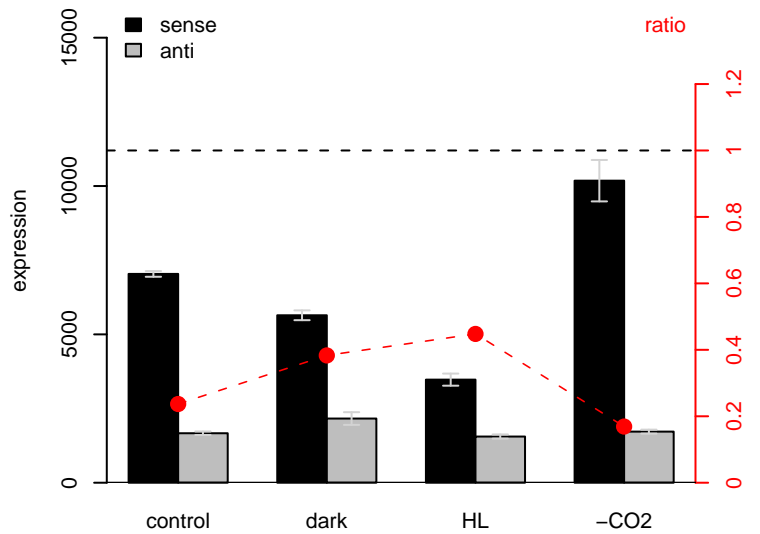
**slr0408****genome\_3115****slr0408****genome\_3115****slr0408****genome\_3115**

**slr0408****genome\_3115****slr1773****genome\_311****slr0408****genome\_3115**

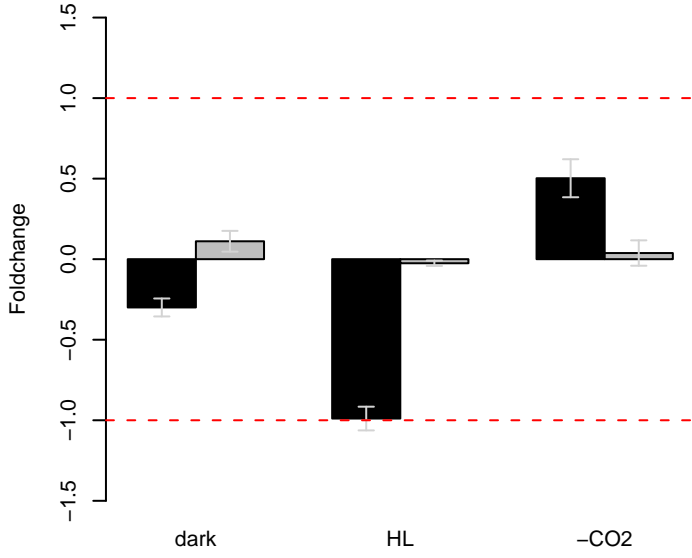
**slr0408****genome\_3115****slr0408****genome\_3115****slr0143****genome\_3124**

**slr0144****genome\_3126****slr0149****genome\_3133****slr0147****genome\_3141**

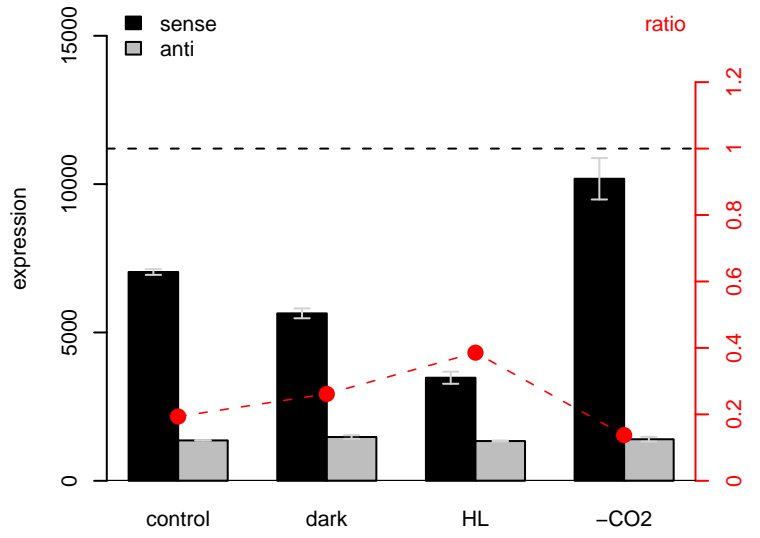


**frr(sll0145)****genome\_3145****slr1776****genome\_314****pilT(slr0161)****genome\_3153**

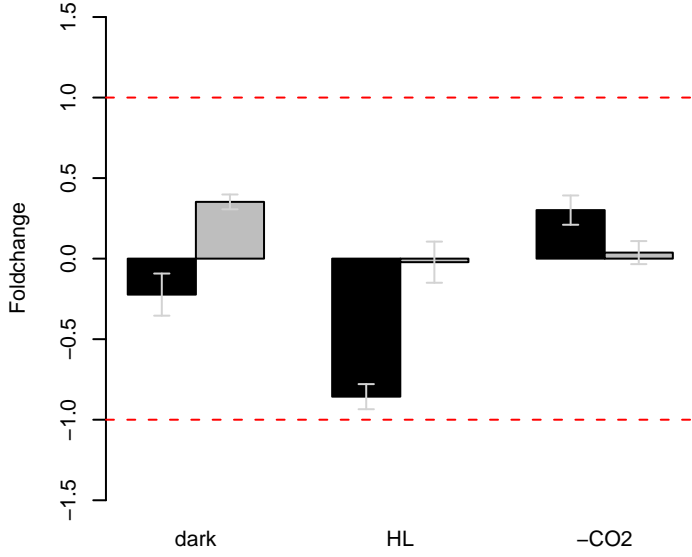
**pilT(slr0161)**



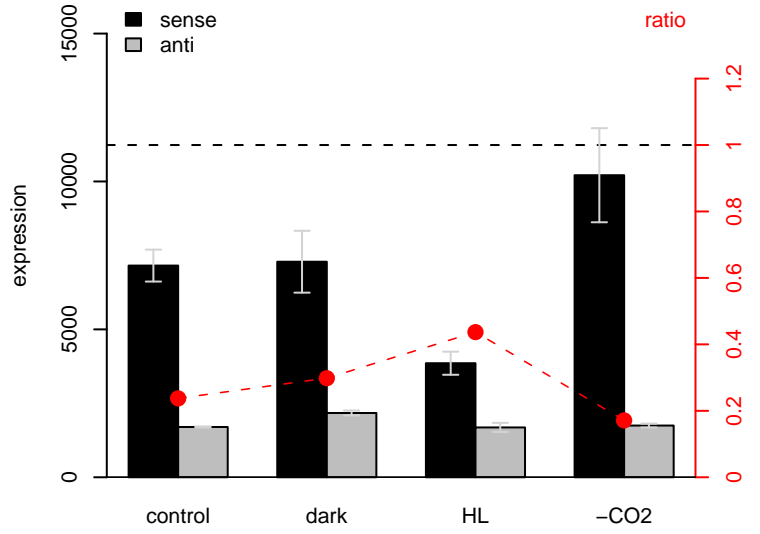
**genome\_3153**



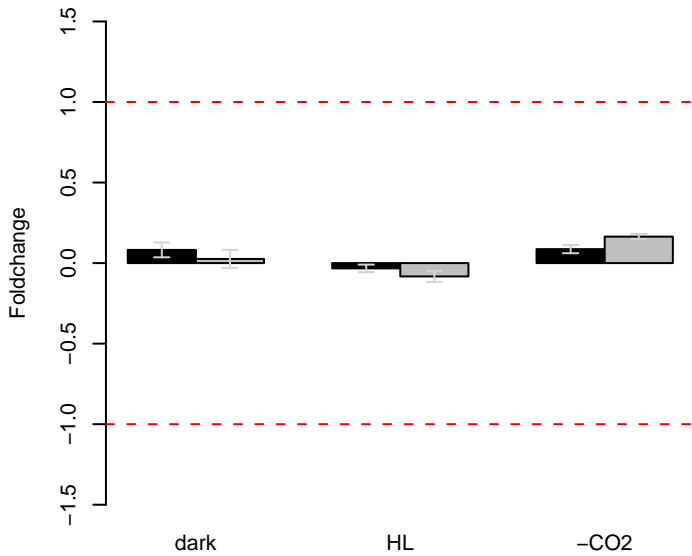
**pilC(slr0163)**



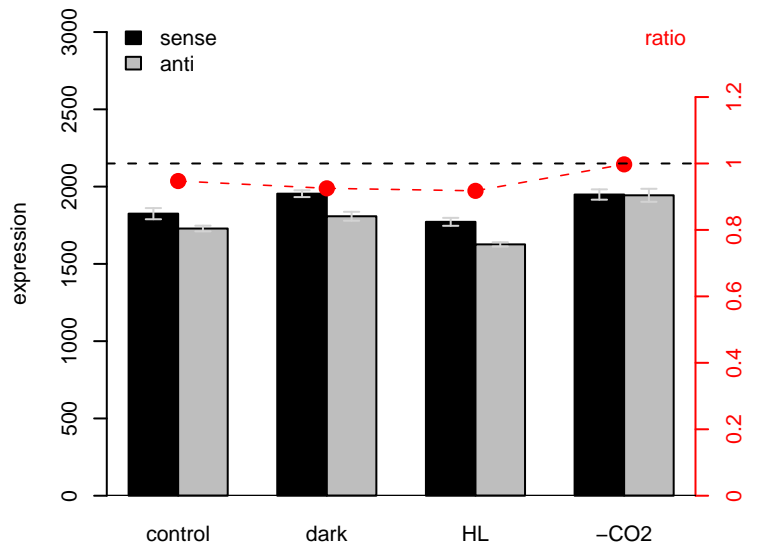
**genome\_3157**

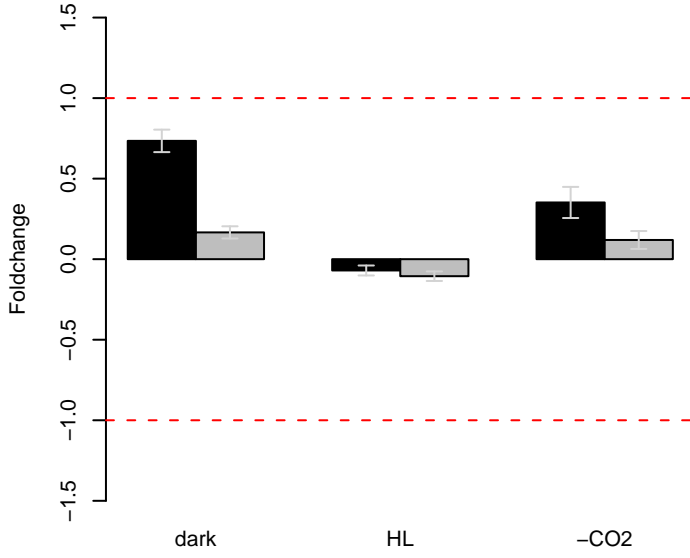
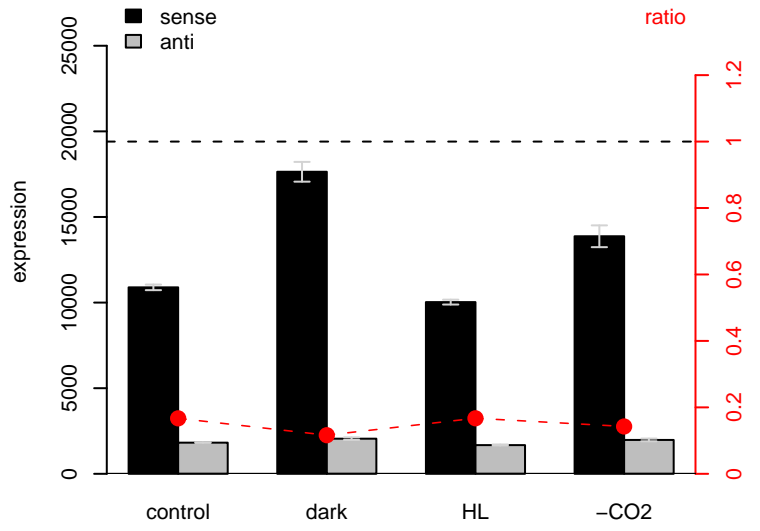
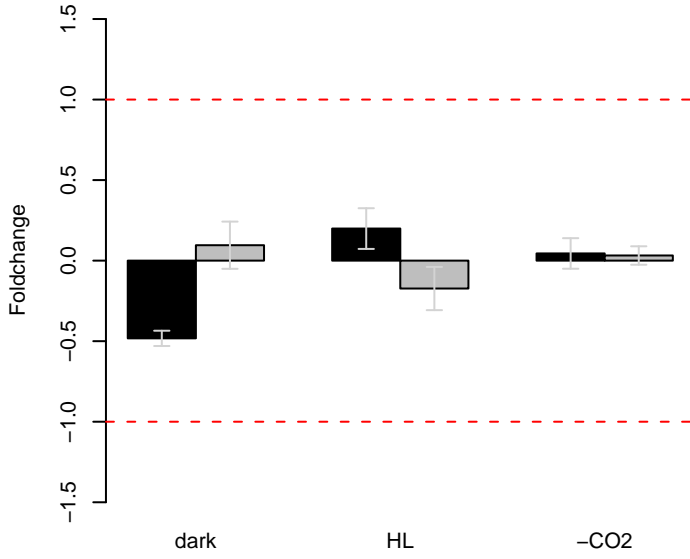
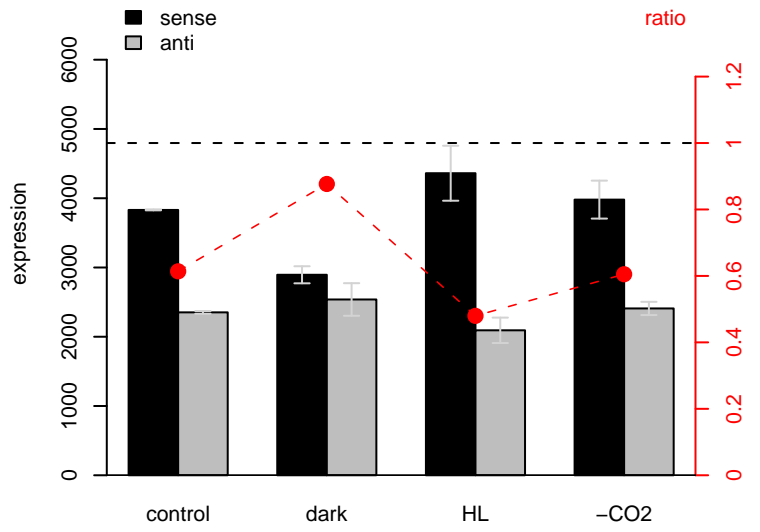
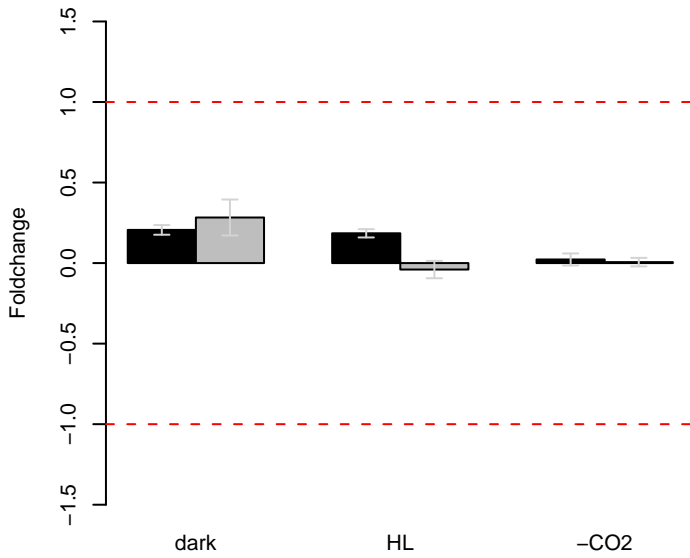
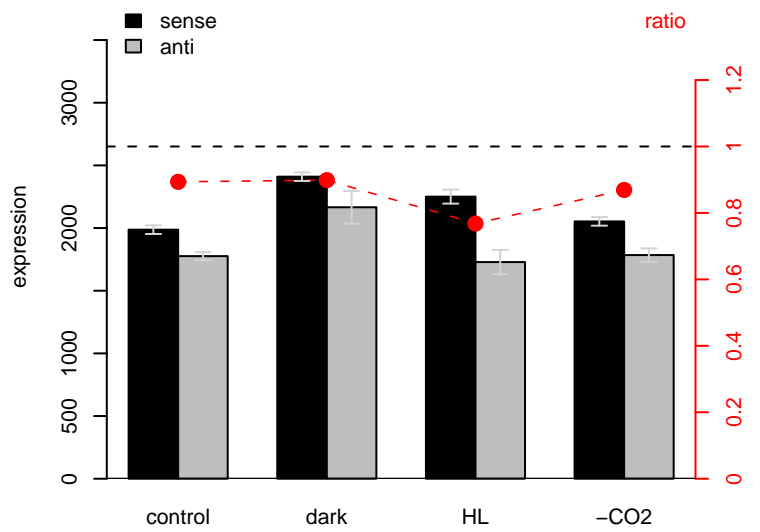


**slr1776**

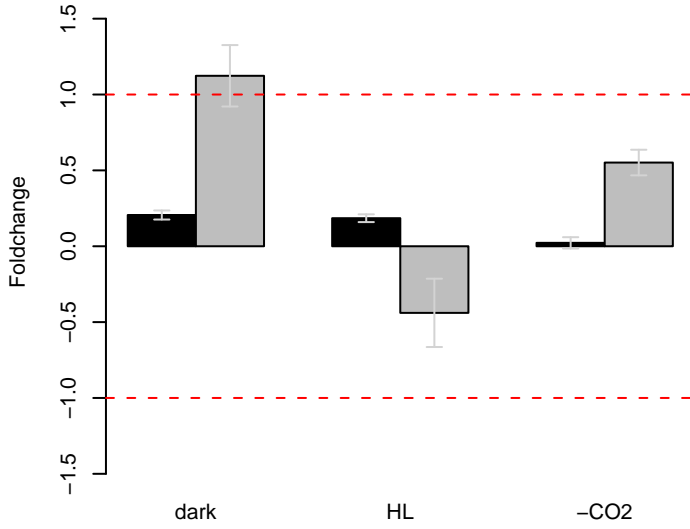


**genome\_314**

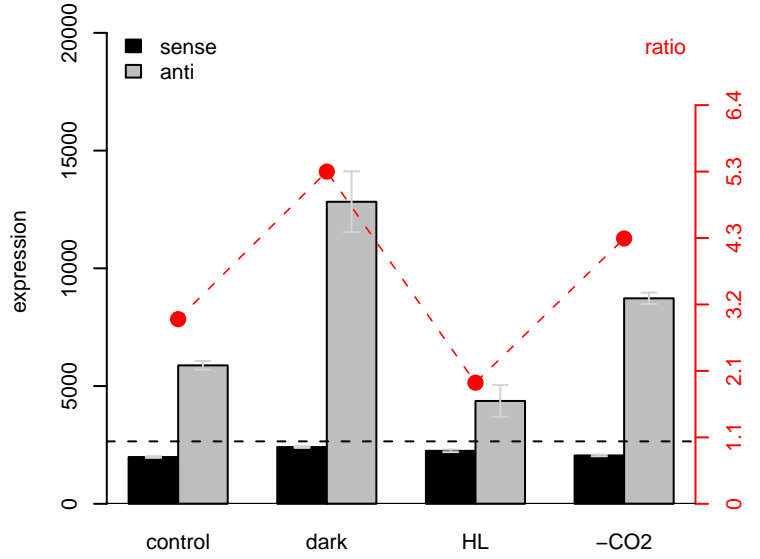


**clpP(slr0164)****genome\_3159****slr1924****genome\_3171****cobD(slr1925)****genome\_3173**

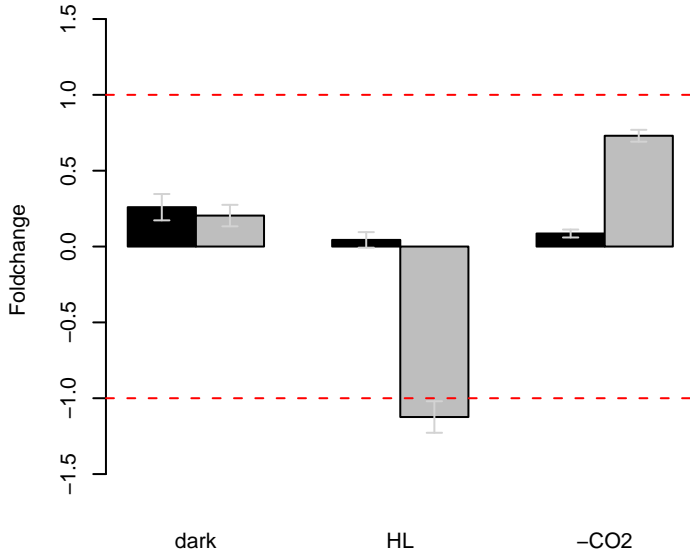
**cobD(slr1925)**



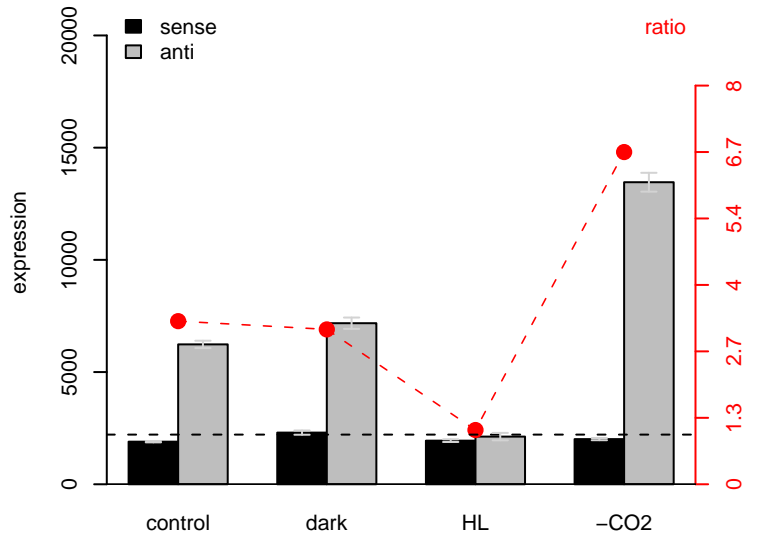
**genome\_3173**



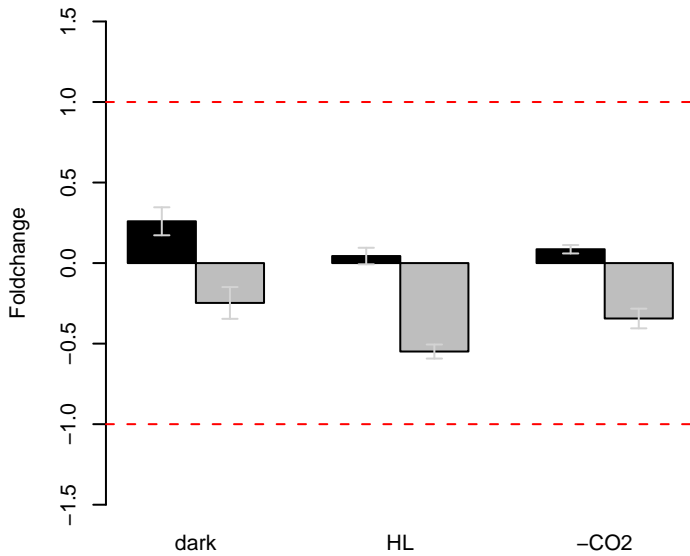
**slI1864**



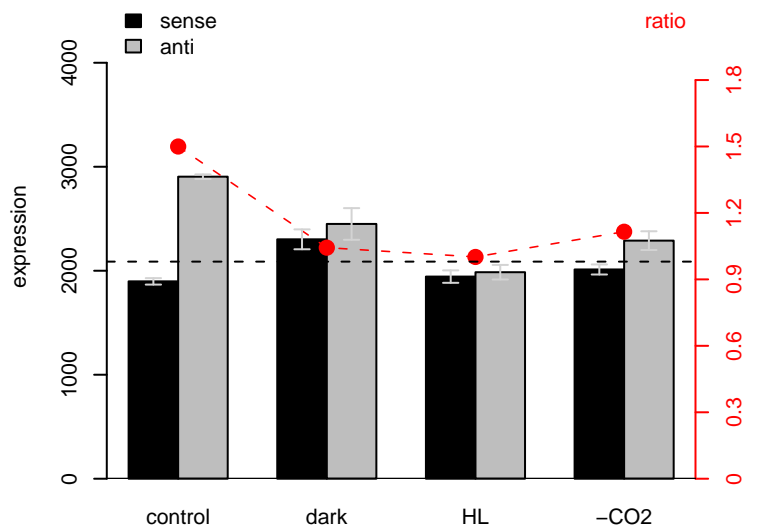
**genome\_3180**



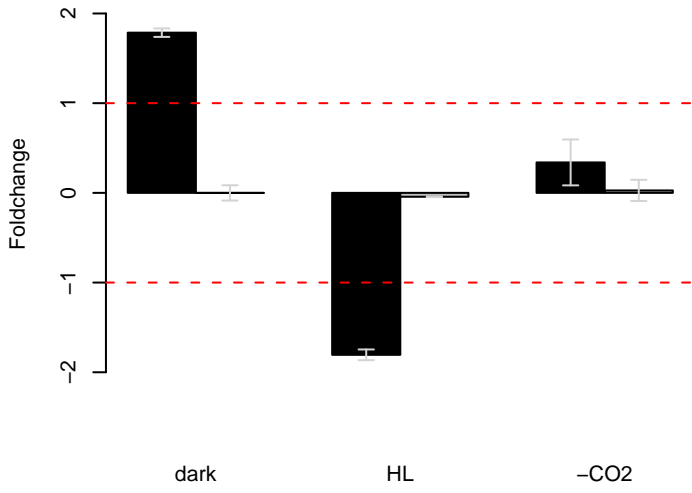
**slI1864**



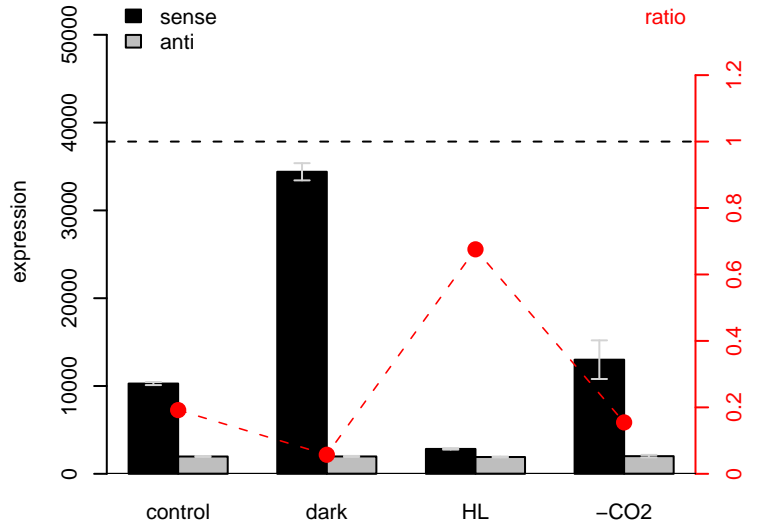
**genome\_3180**



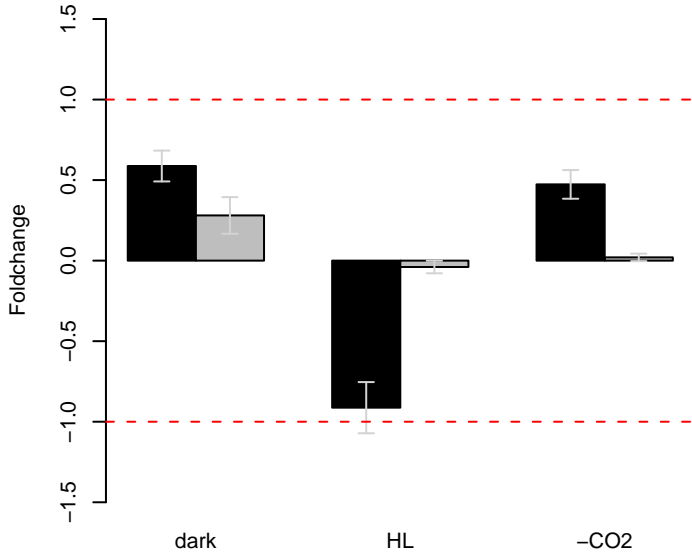
**slr1928**



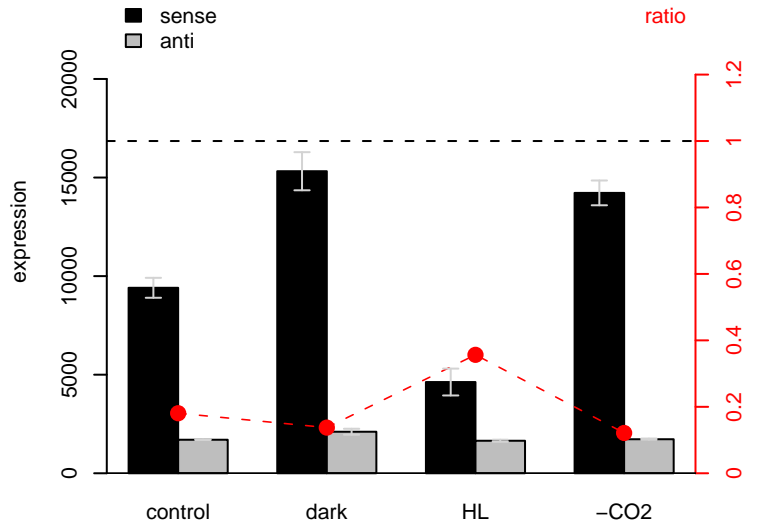
**genome\_3184**



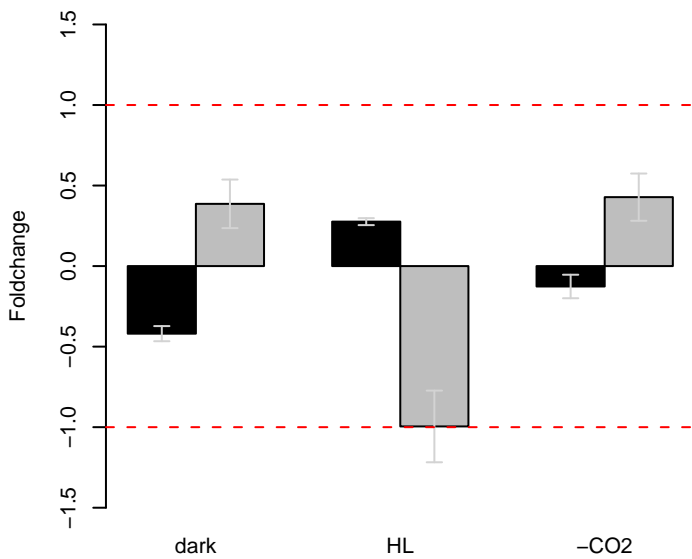
**slr1930**



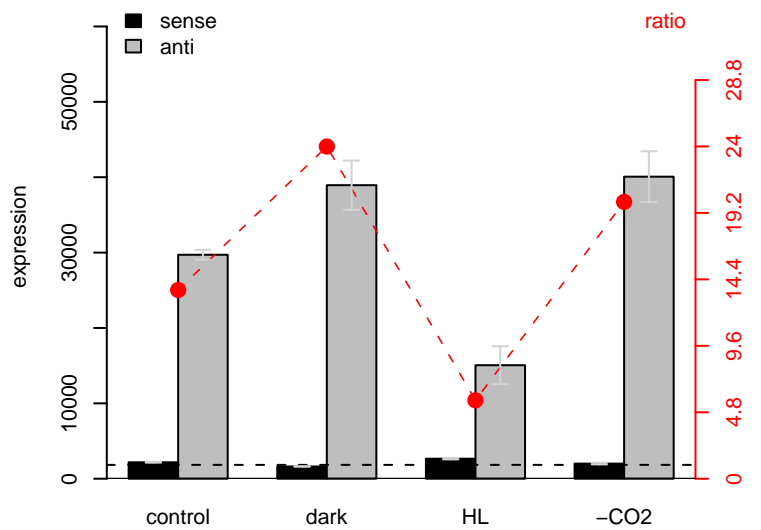
**genome\_3187**

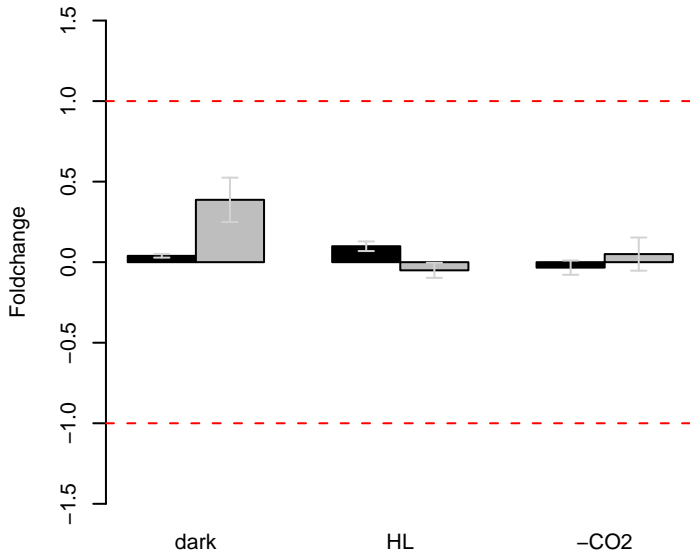
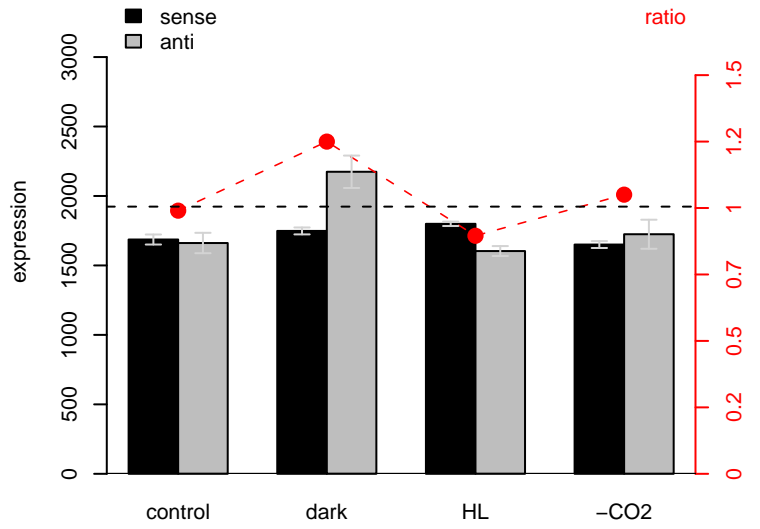
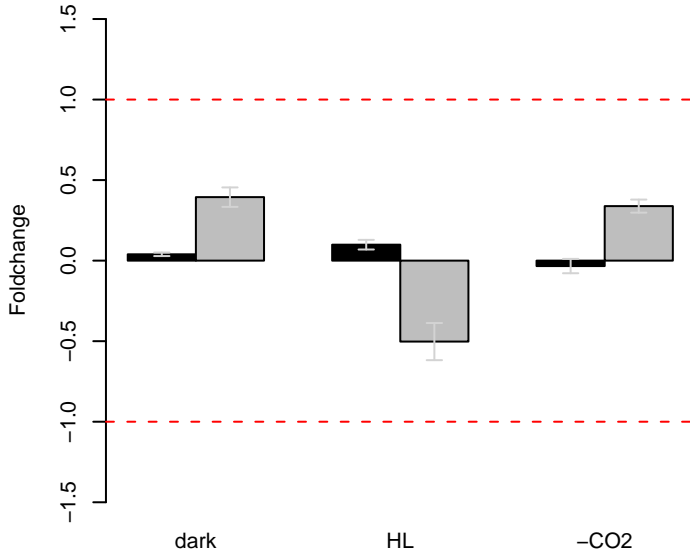
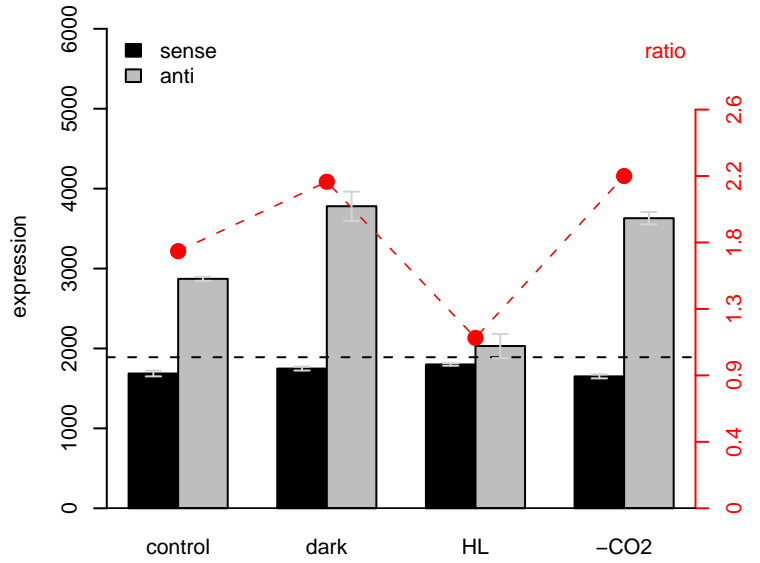
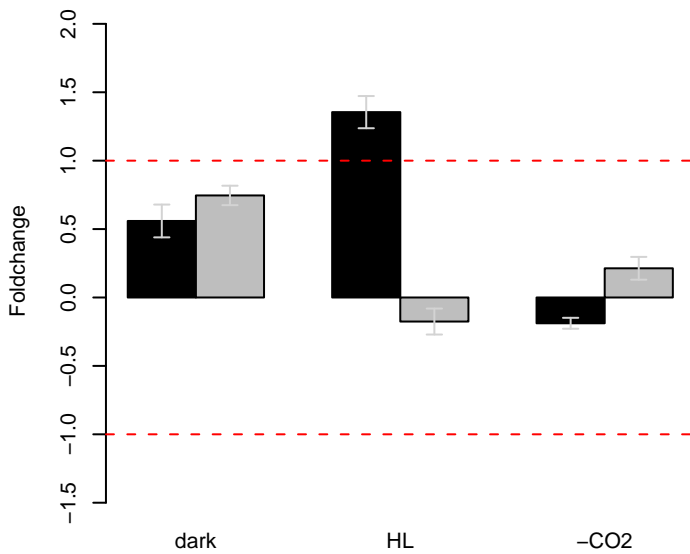
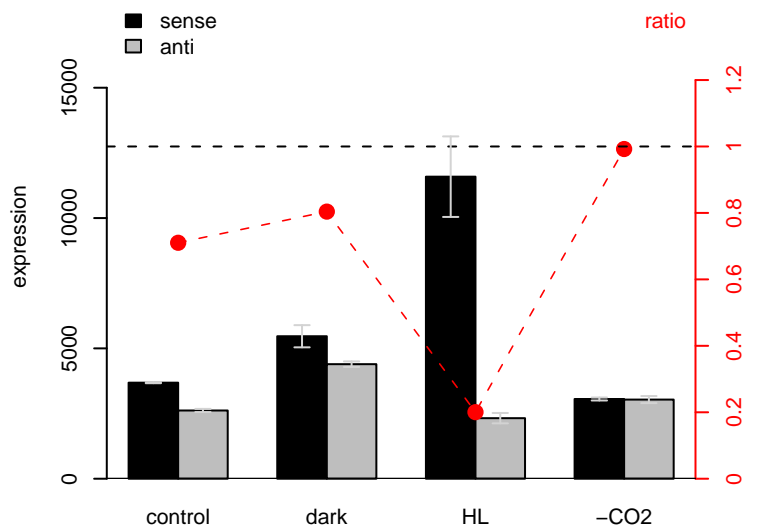


**chID(slr1777)**

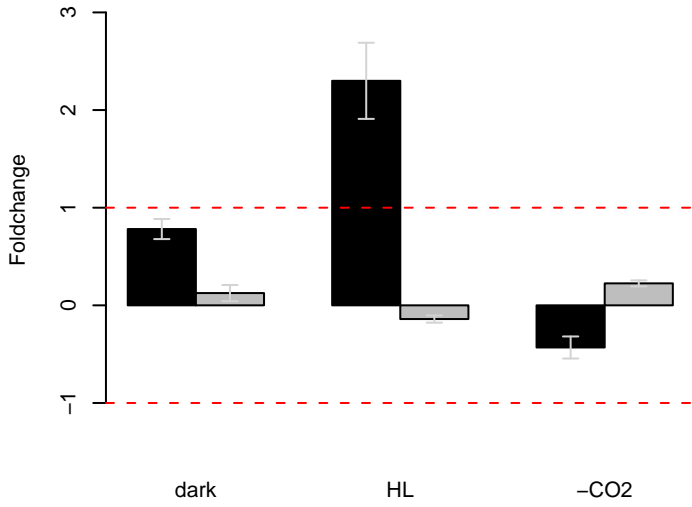


**genome\_318**

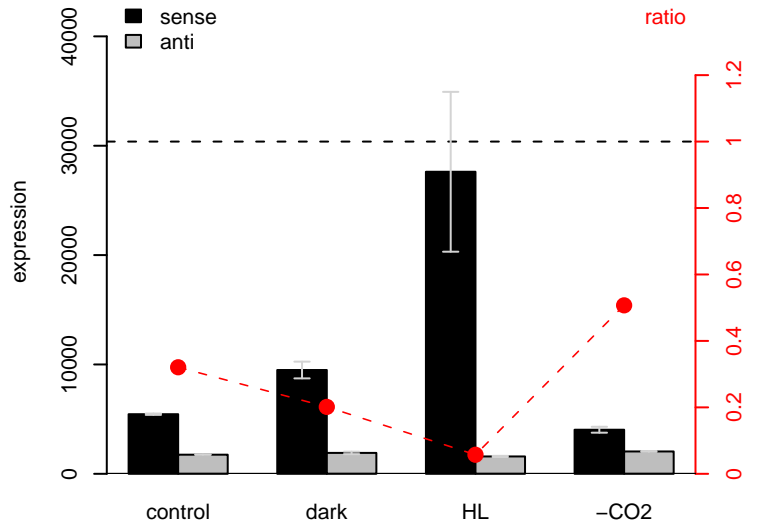


**slr1935****genome\_3201****slr1935****genome\_3201****slr1853****genome\_3205**

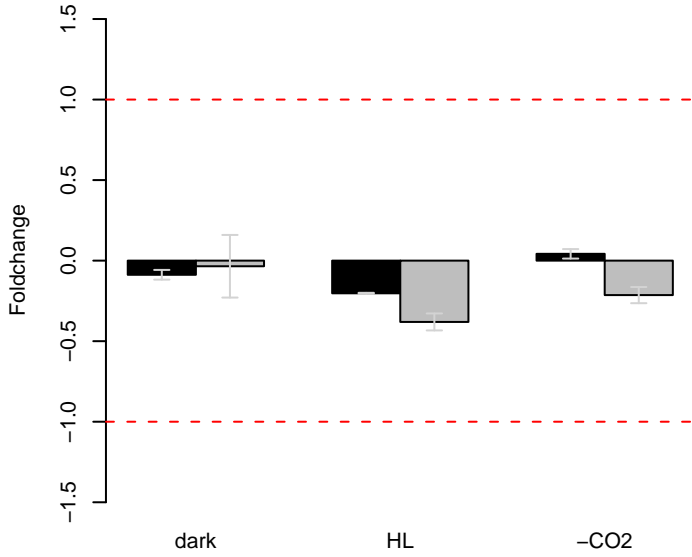
**ndkR(sll1852)**



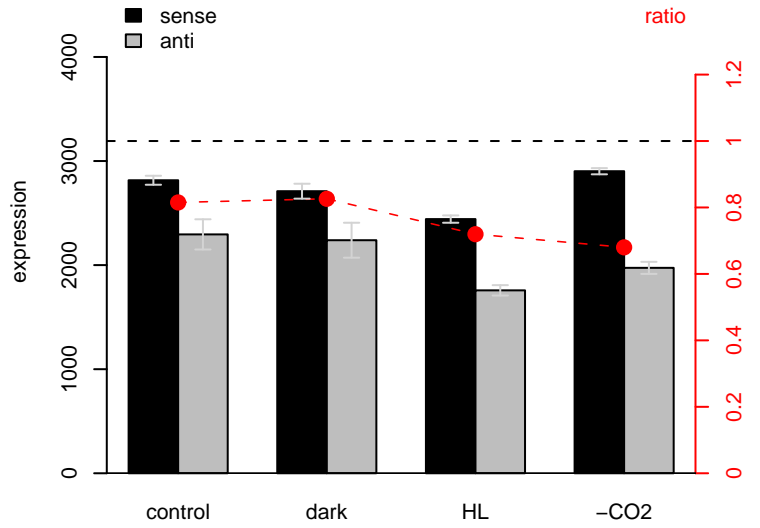
**genome\_3207**



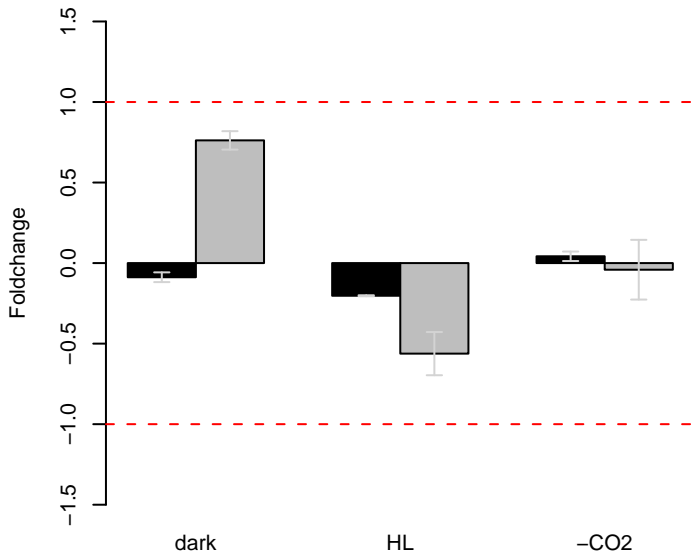
**slr1944**



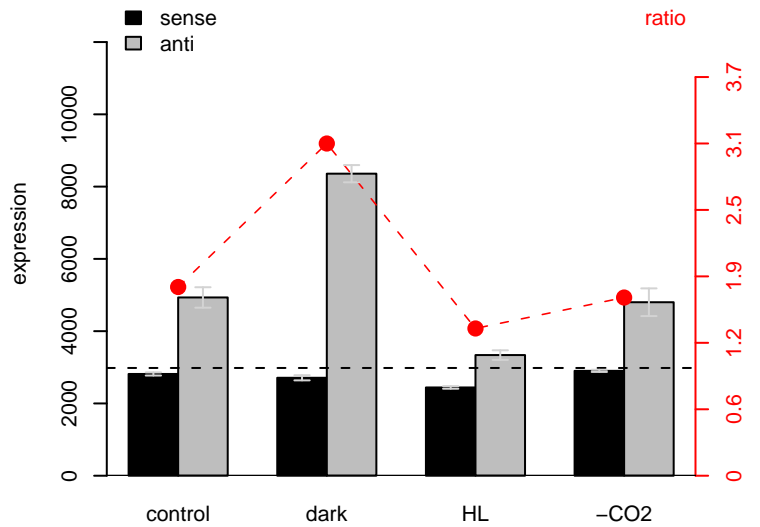
**genome\_3225**

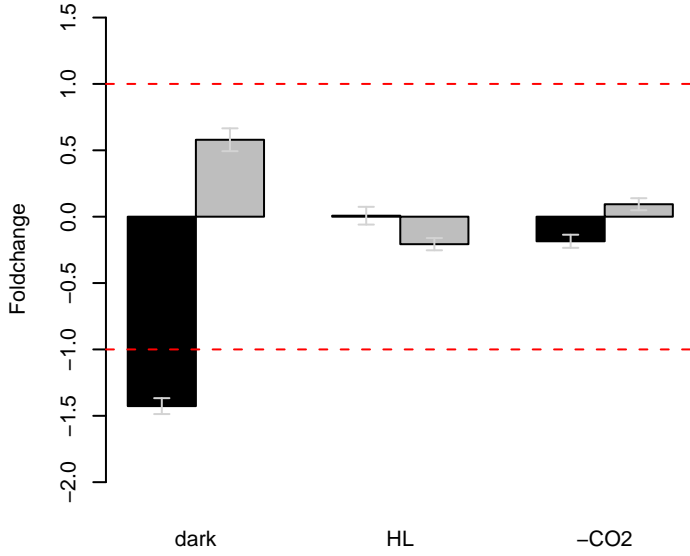
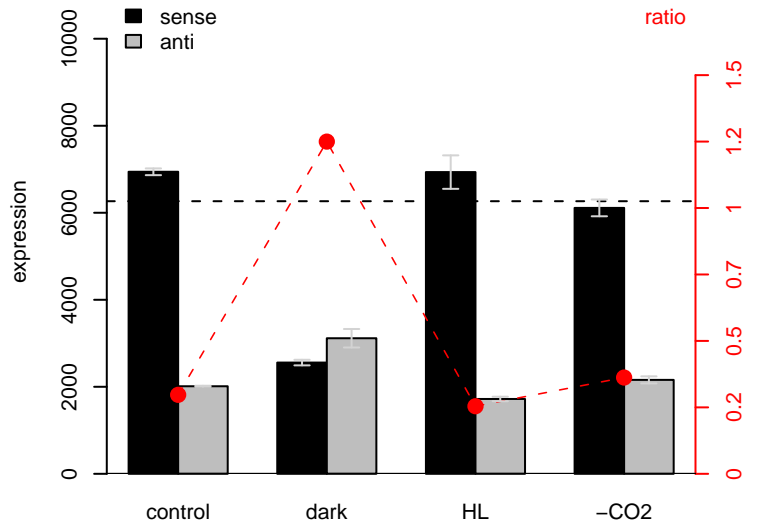
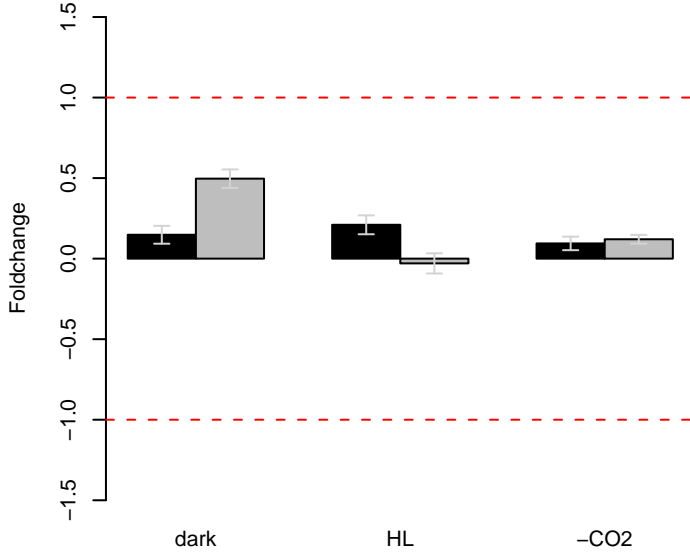
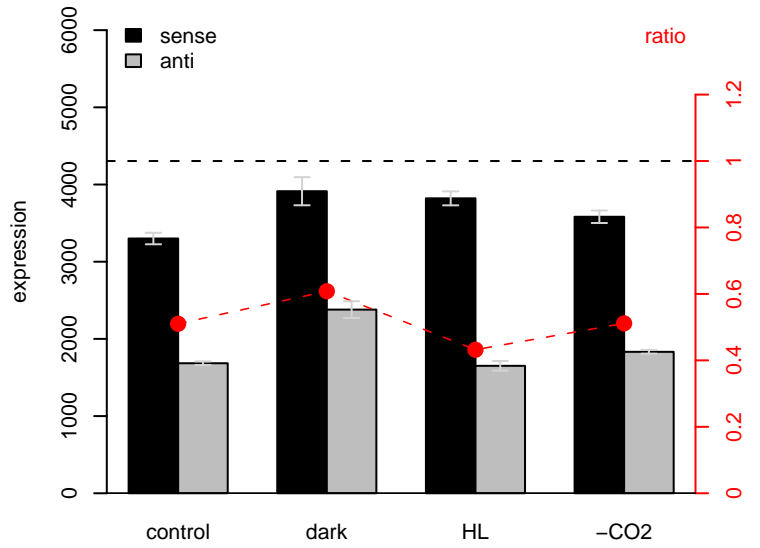
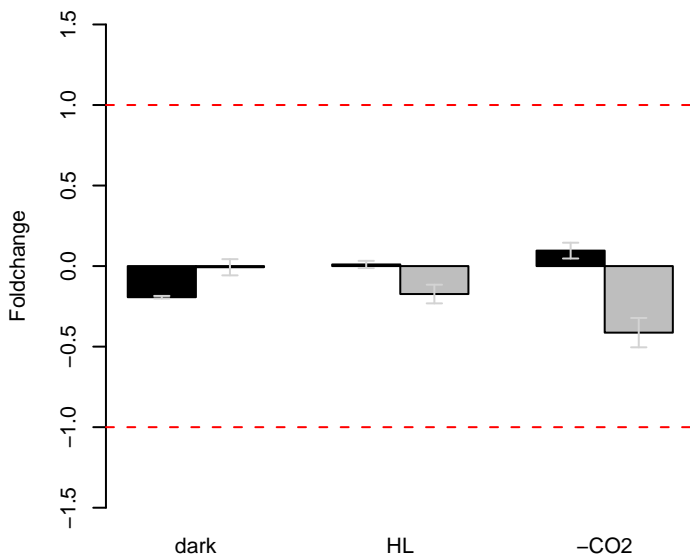
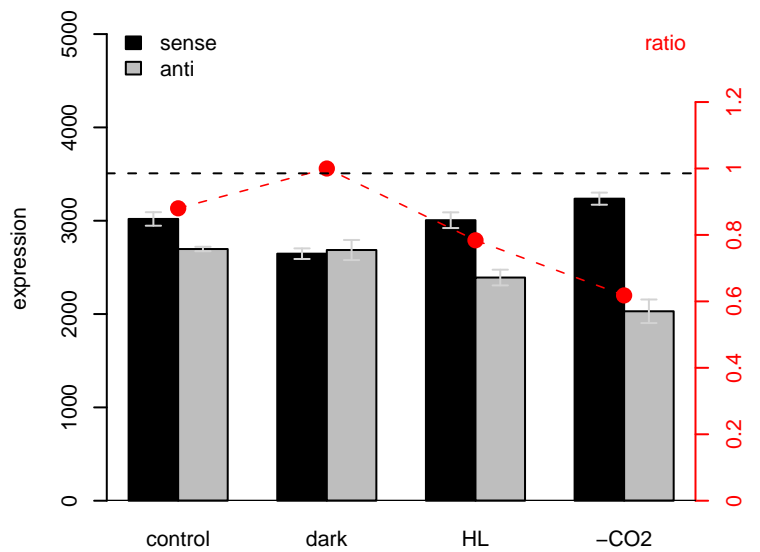


**slr1944**



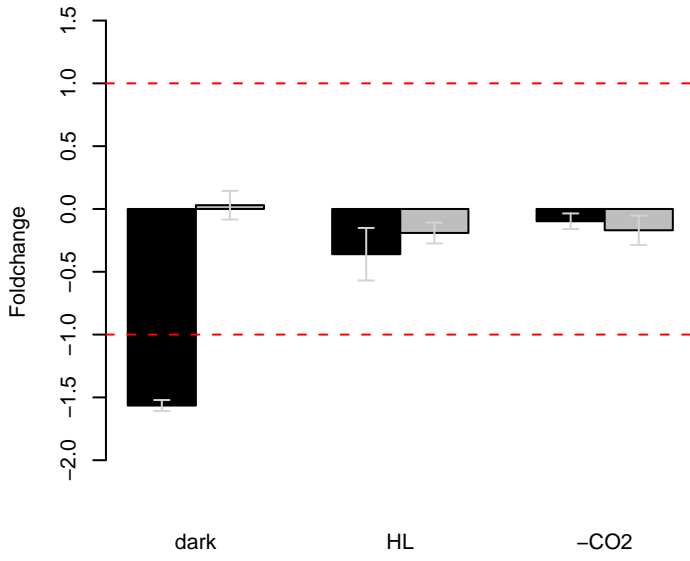
**genome\_3225**



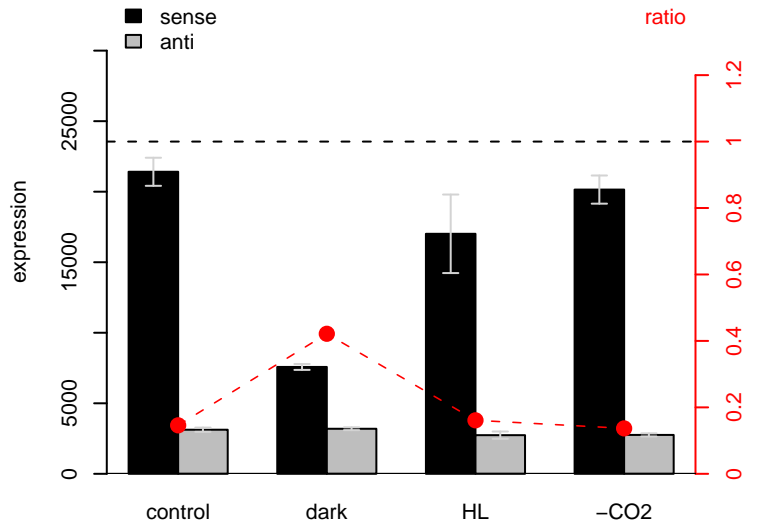
**odhB(sll1841)****genome\_3232****pdxJ(slr1779)****genome\_323****slr0990****genome\_3241**



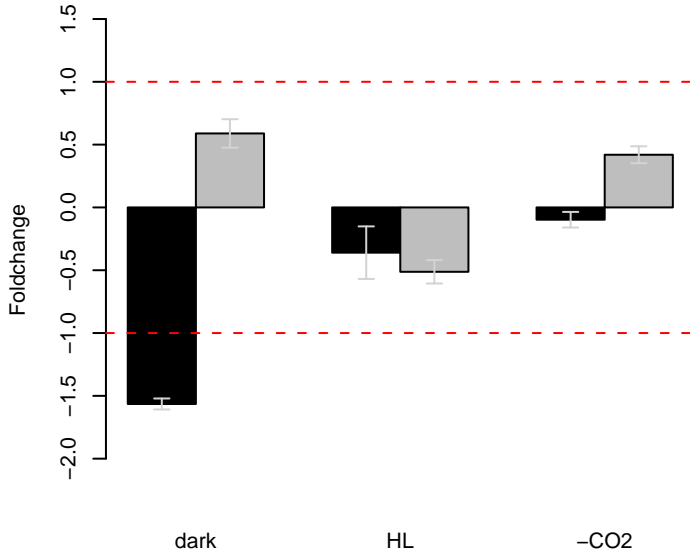
**nlpD(slr0993)**



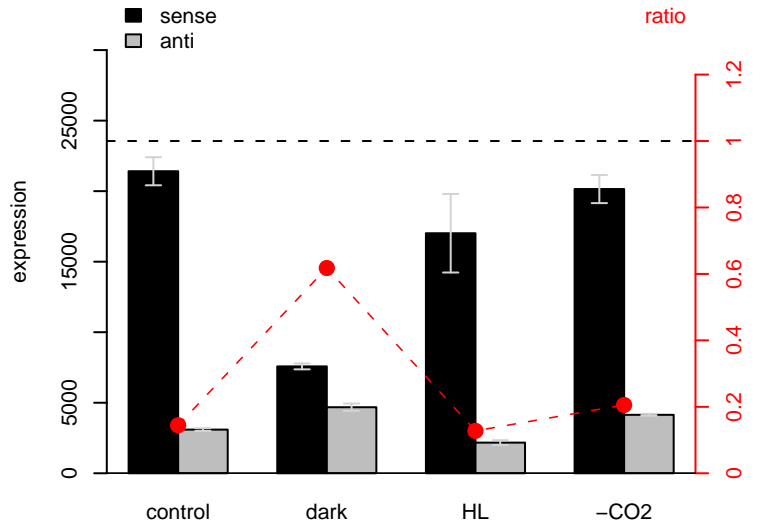
**genome\_3245**



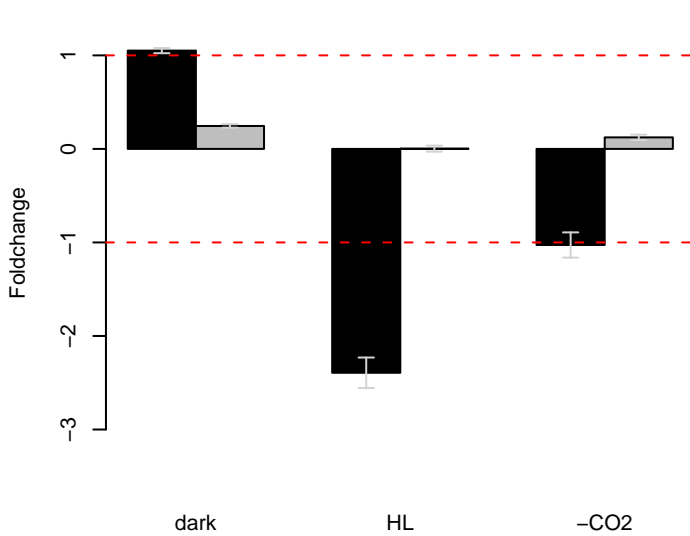
**nlpD(slr0993)**



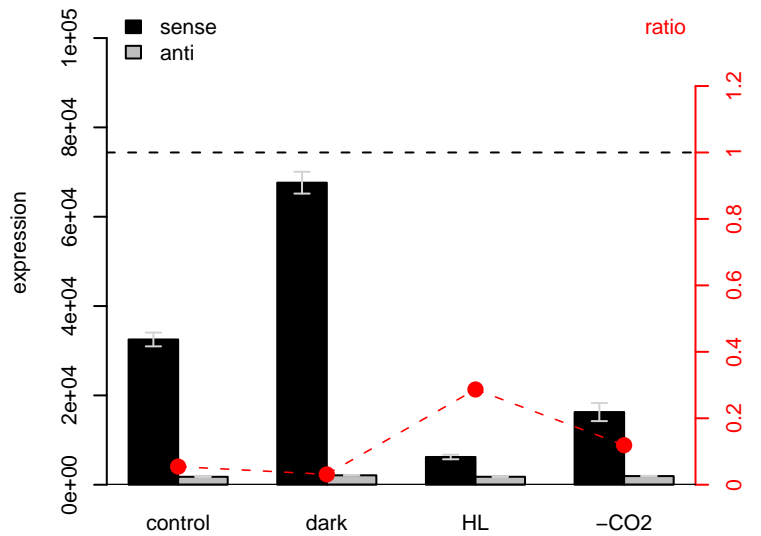
**genome\_3245**



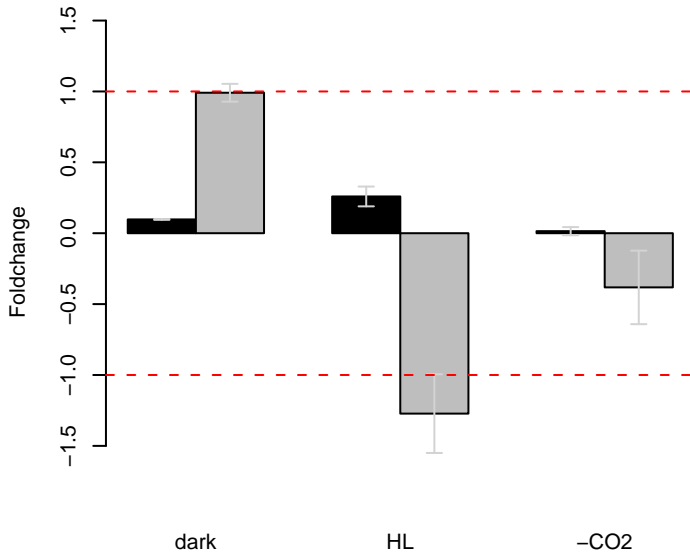
**IrtA(sli0947)**



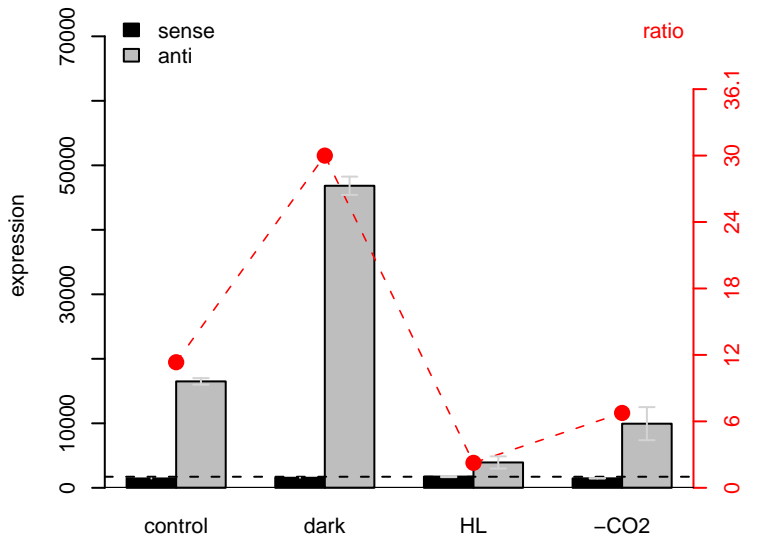
**genome\_3250**



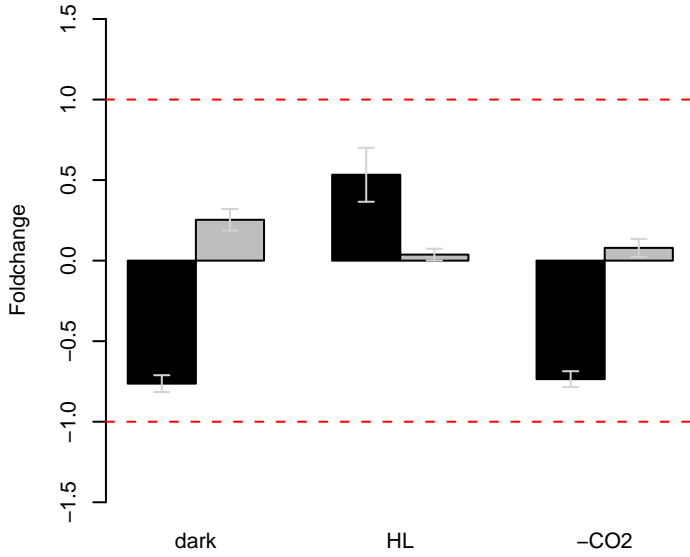
**lipB(slr0994)**



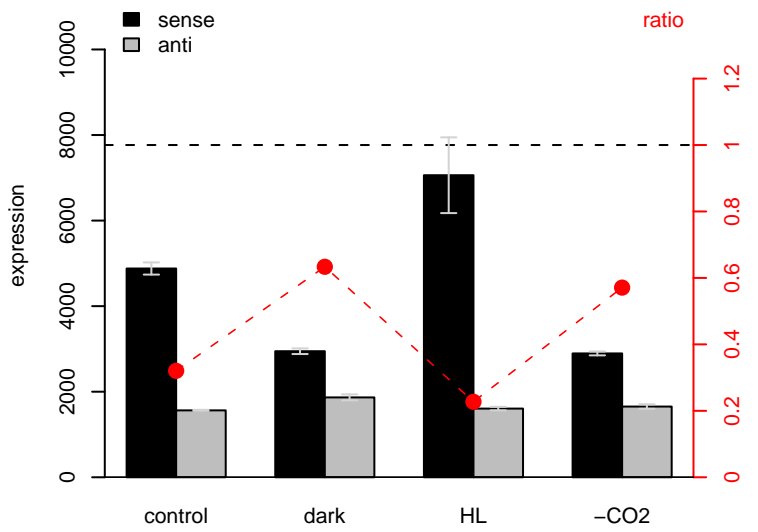
**genome\_3254**



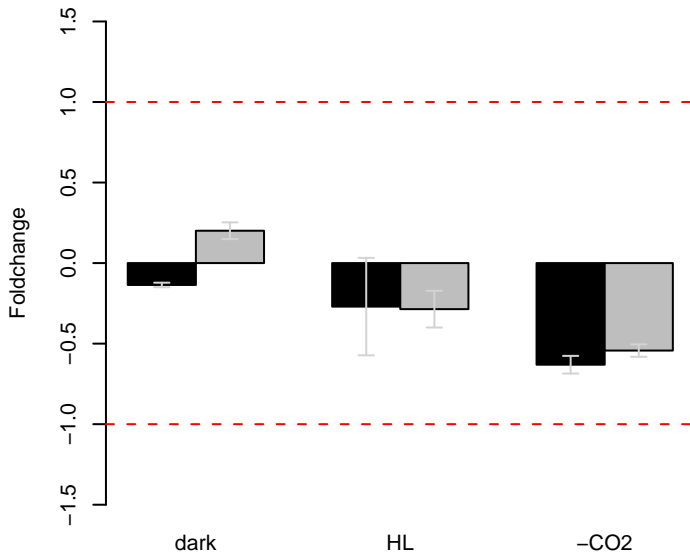
**slr1780**



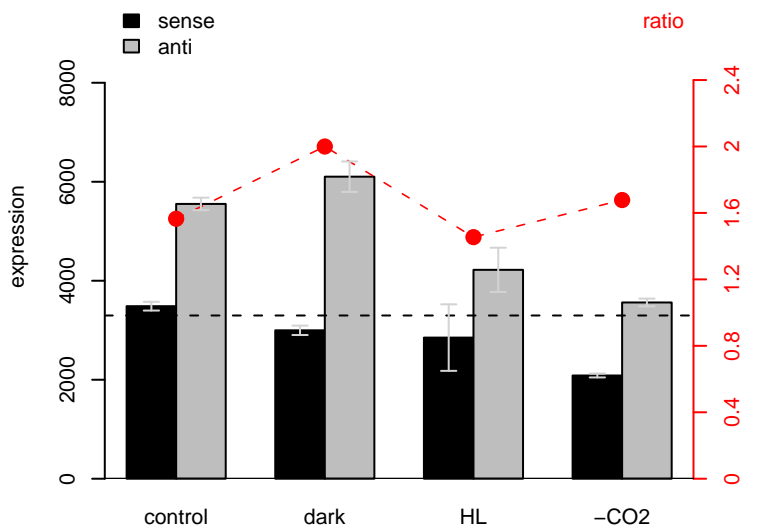
**genome\_325**

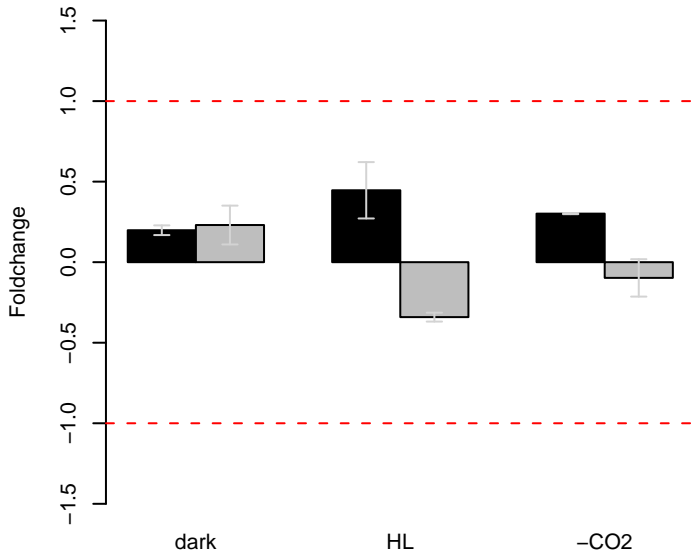
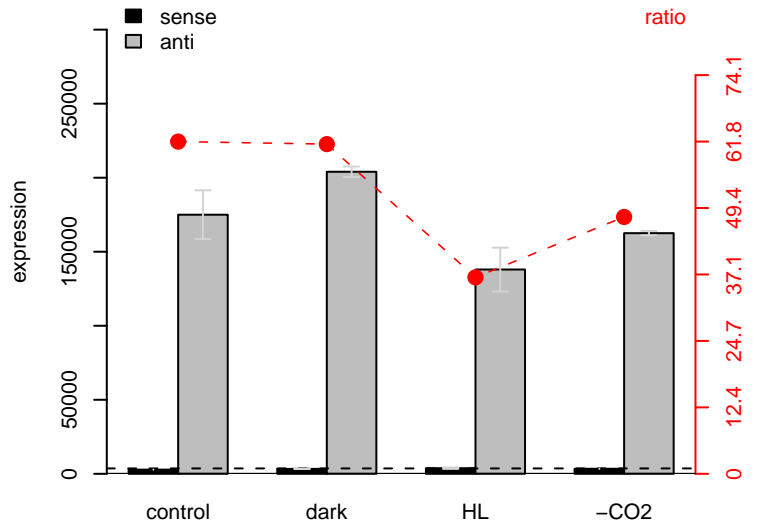
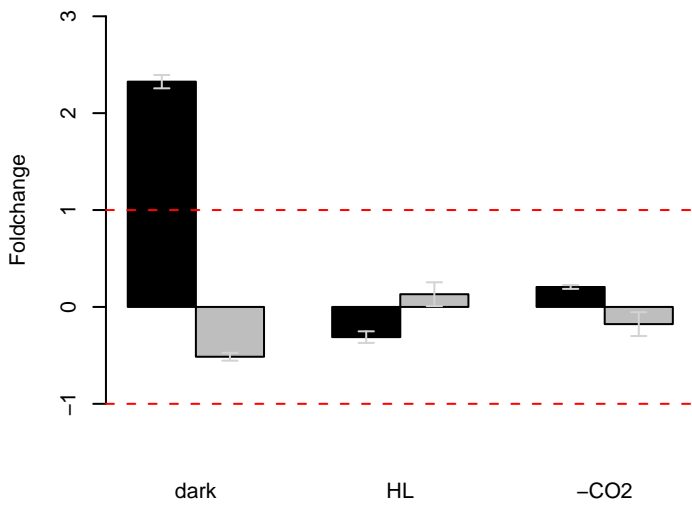
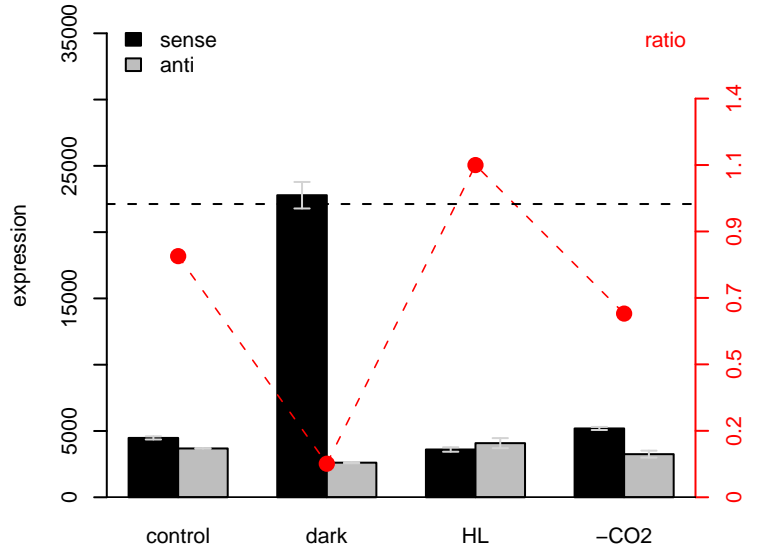
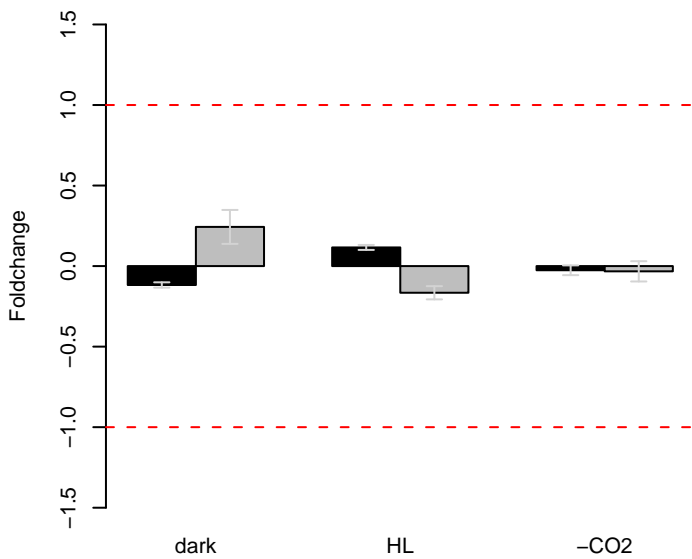
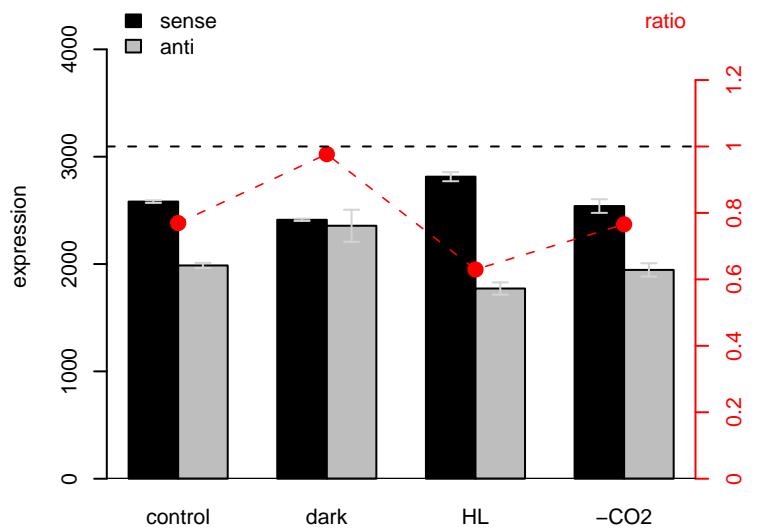


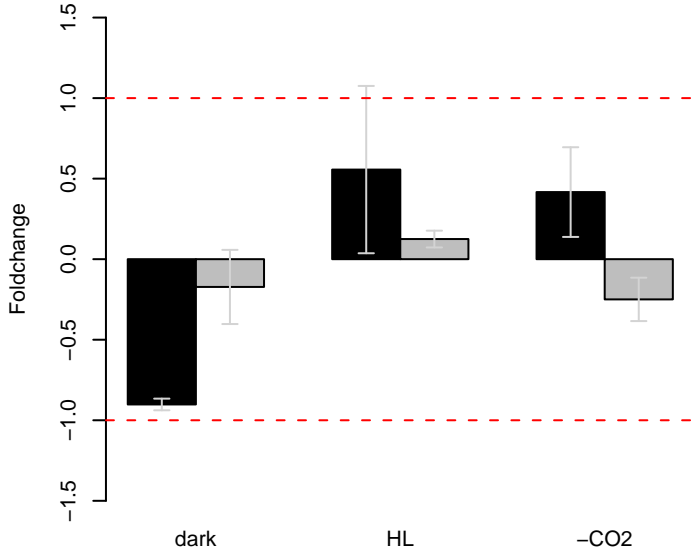
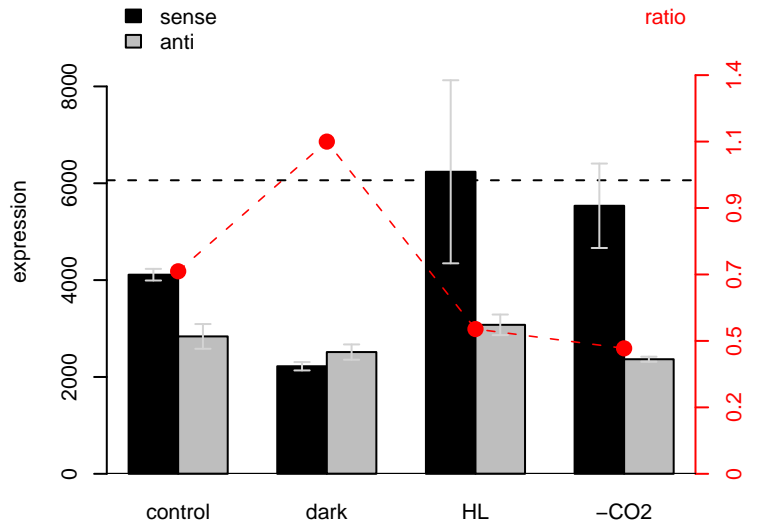
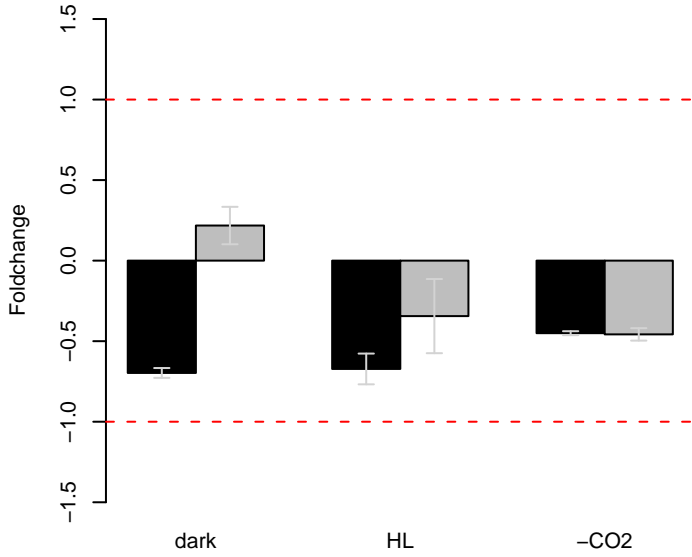
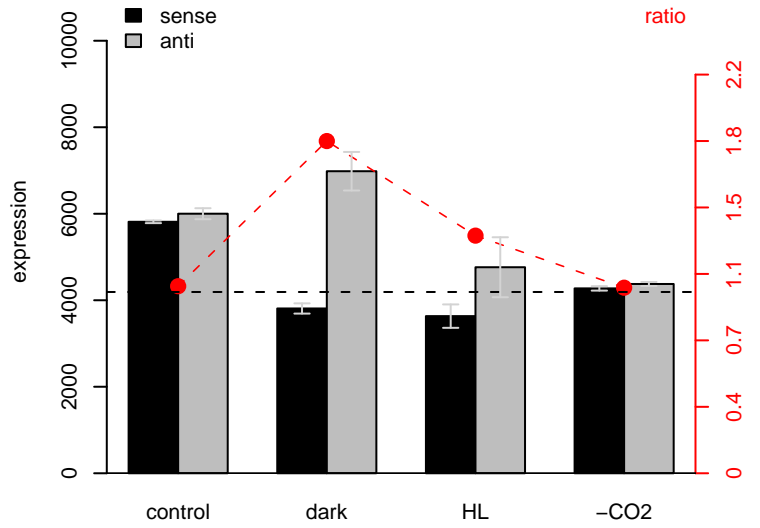
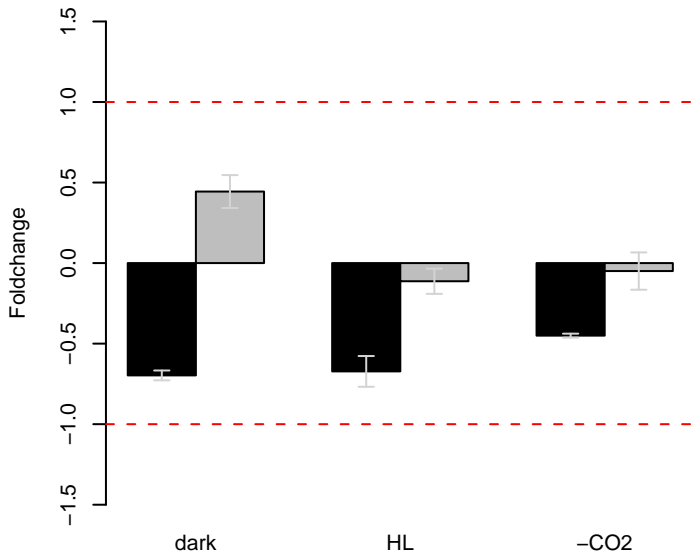
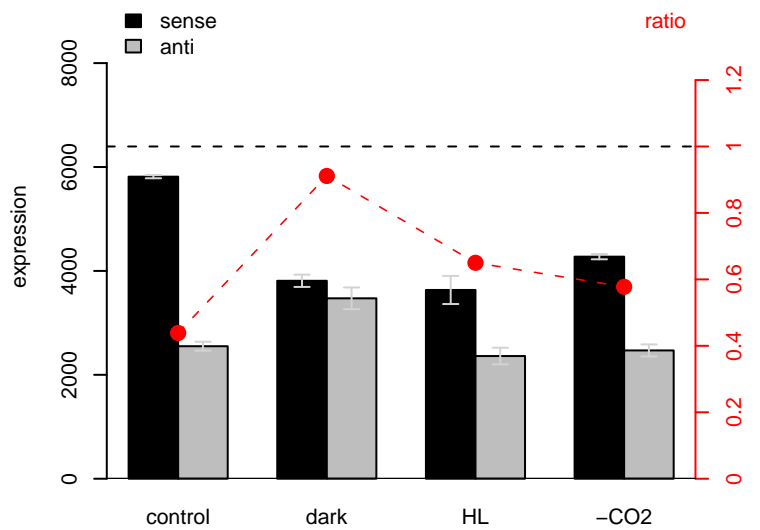
**slr0944**

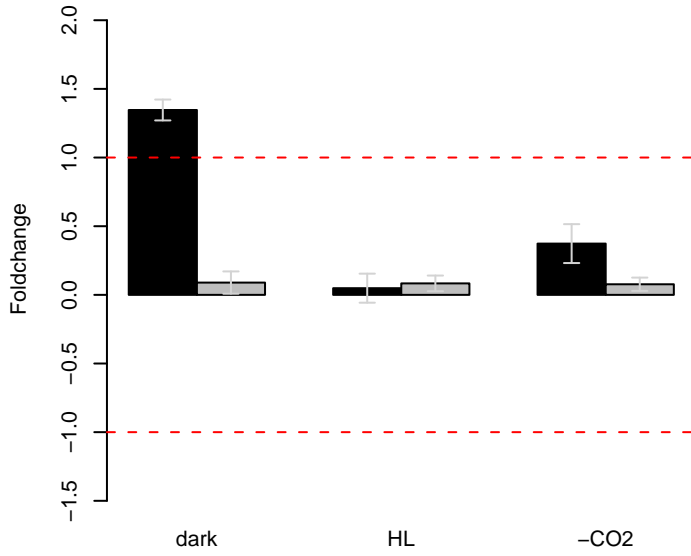
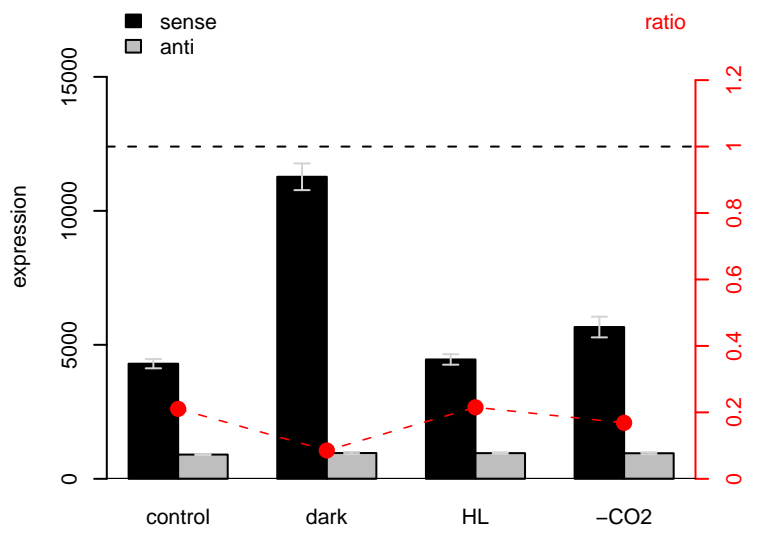
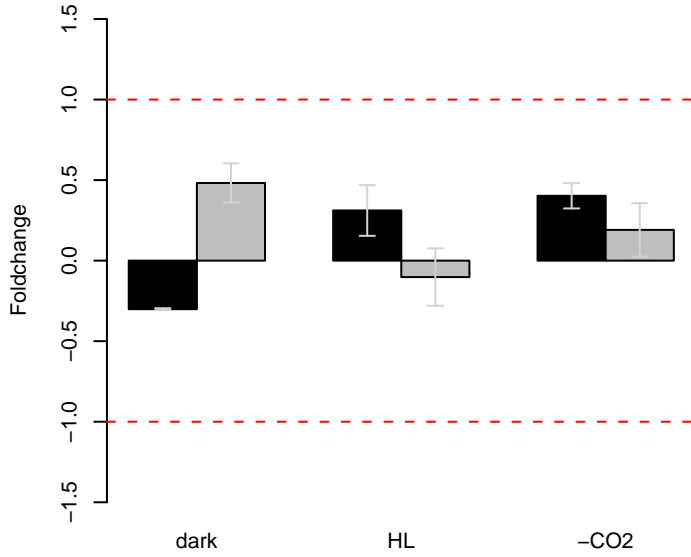
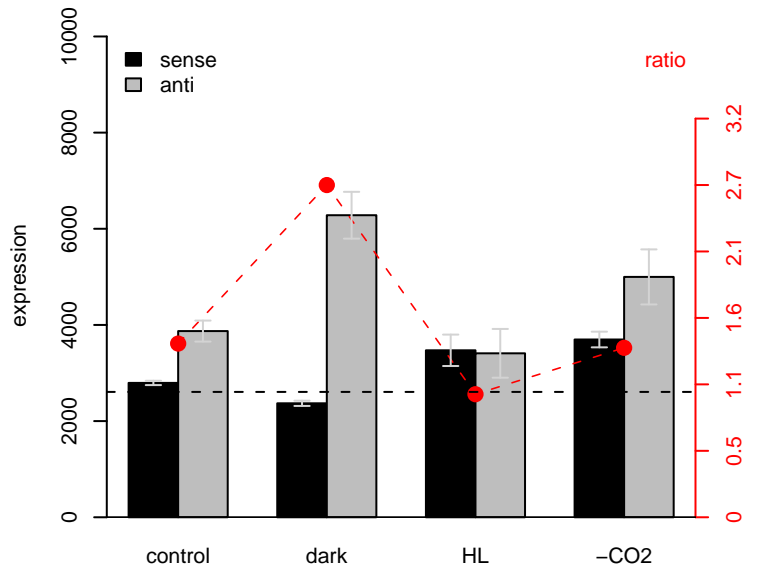
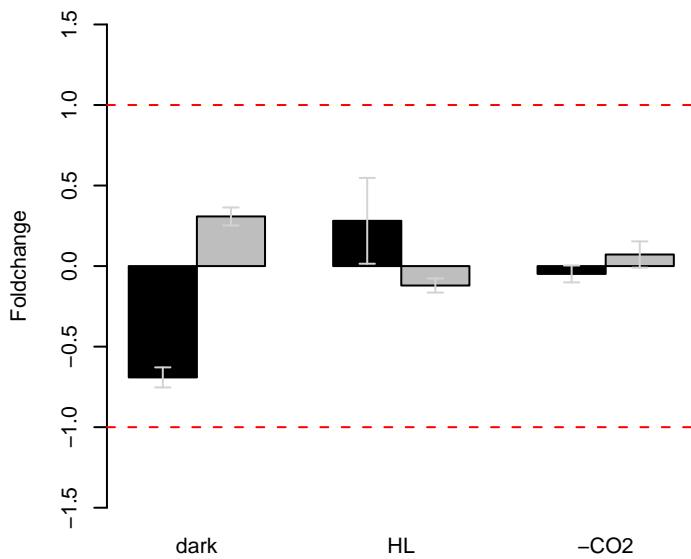
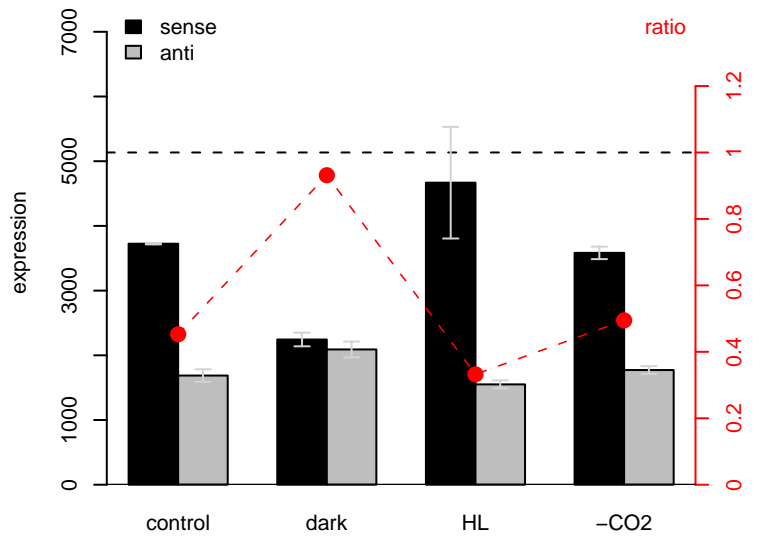


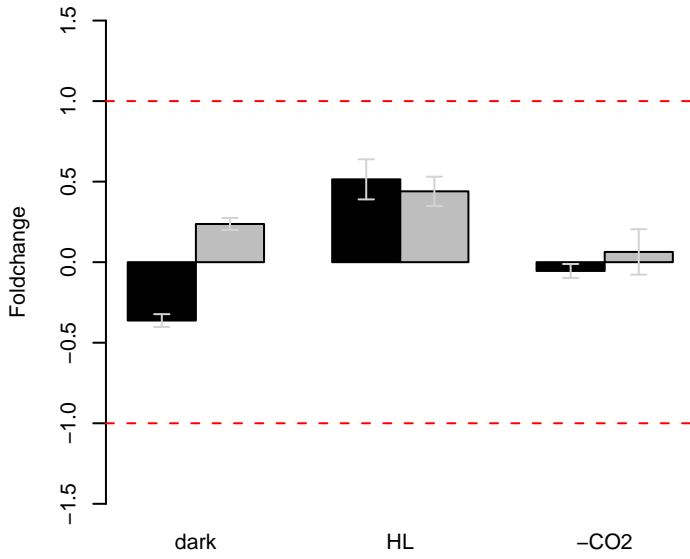
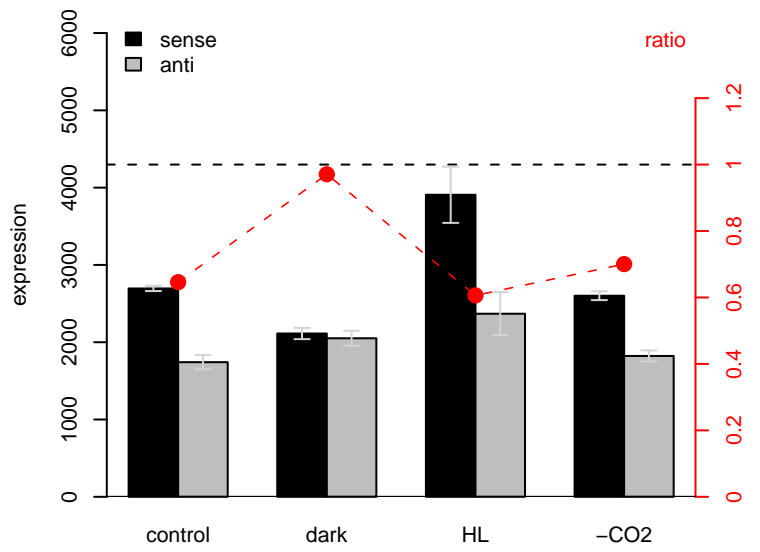
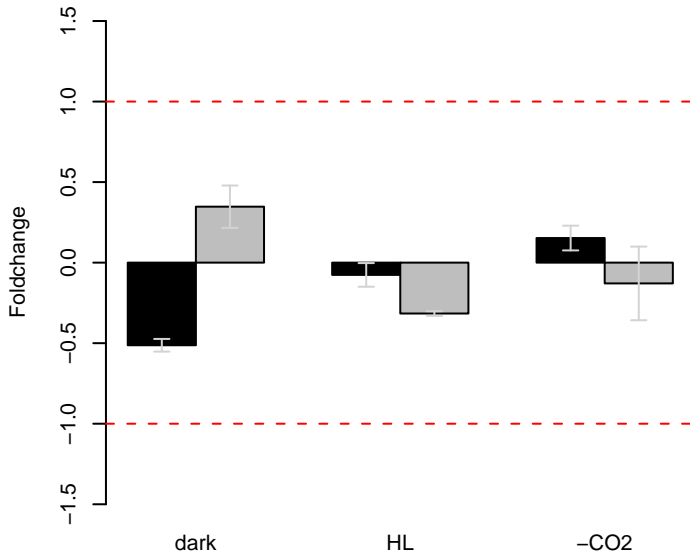
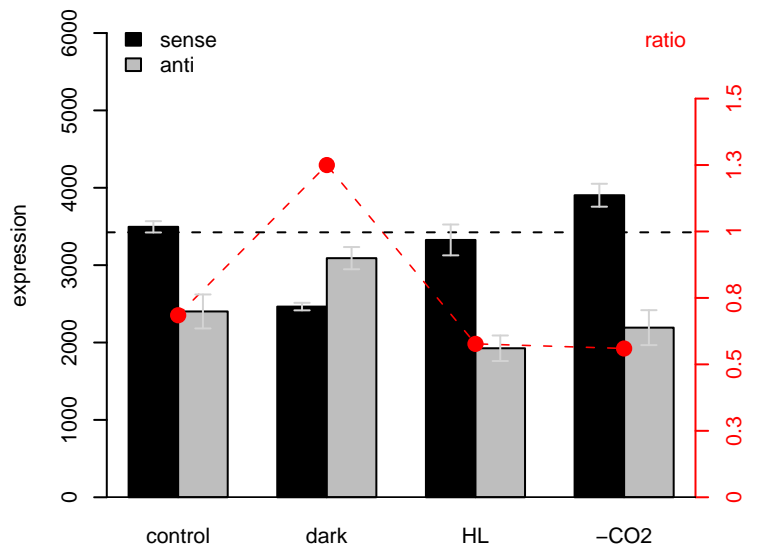
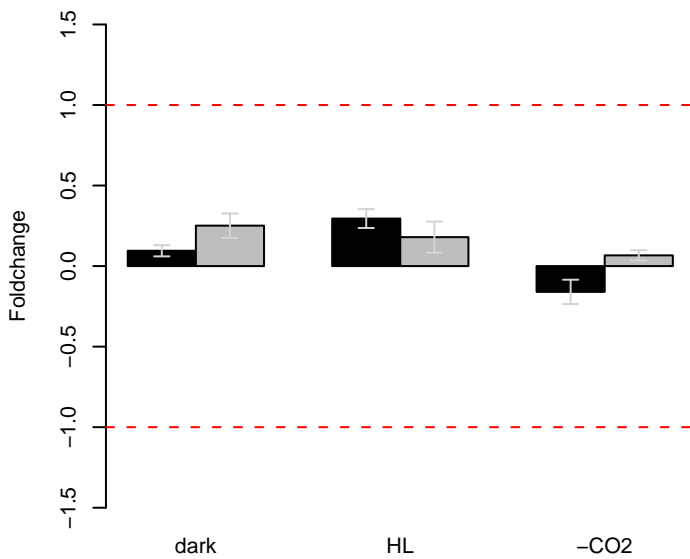
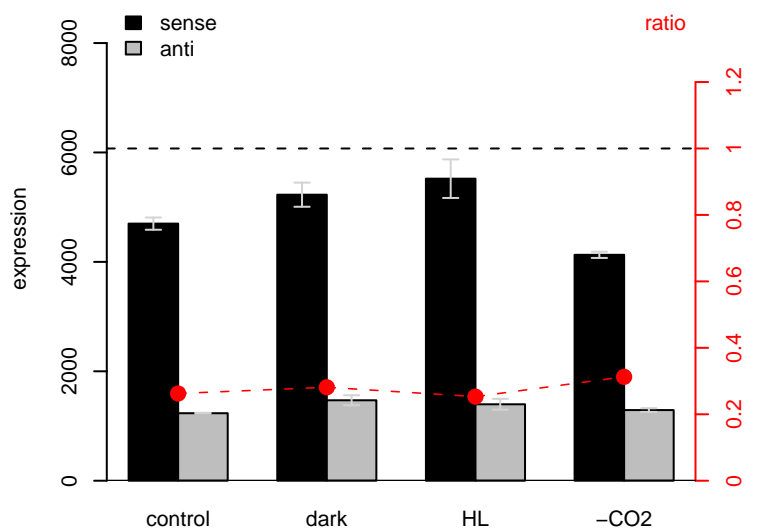
**genome\_3259**



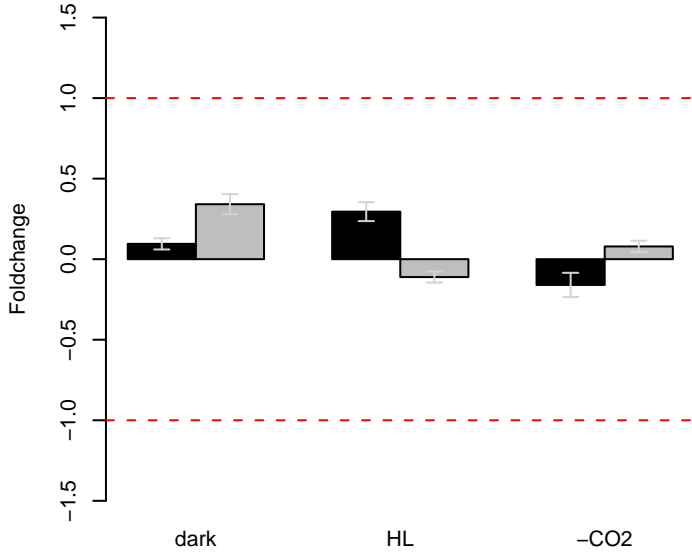
**slr0320****genome\_3261****rpoD(sll0306)****genome\_3263****hitB(slr0327)****genome\_3274**

**ssl0564****genome\_3283****ndhD(sl0331)****genome\_3287****ndhD(sl0331)****genome\_3287**

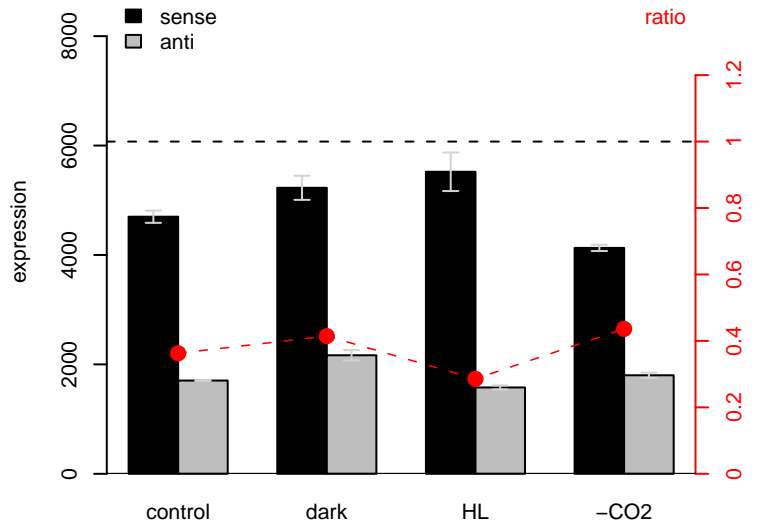
**sll1680****genome\_328****sll0293****genome\_3304****slr0338****genome\_3305**

**slr0168****genome\_3307****hhoA(sll1679)****genome\_330****ycf37(slr0171)****genome\_3310**

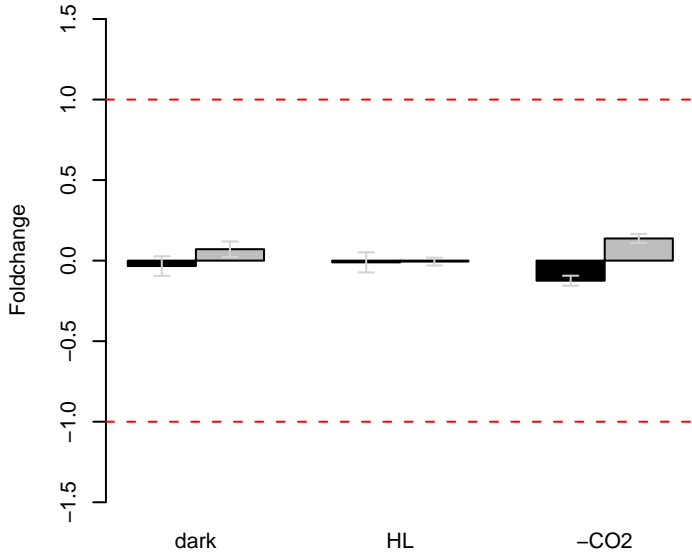
**ycf37(sl10171)**



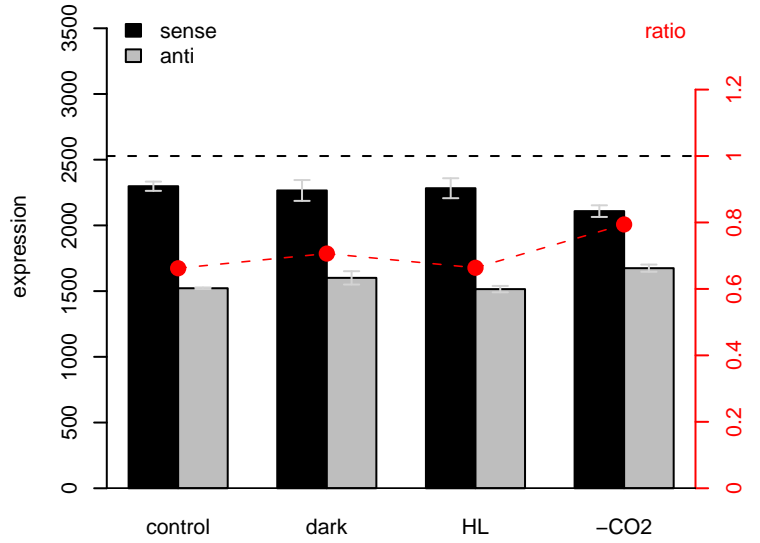
**genome\_3310**



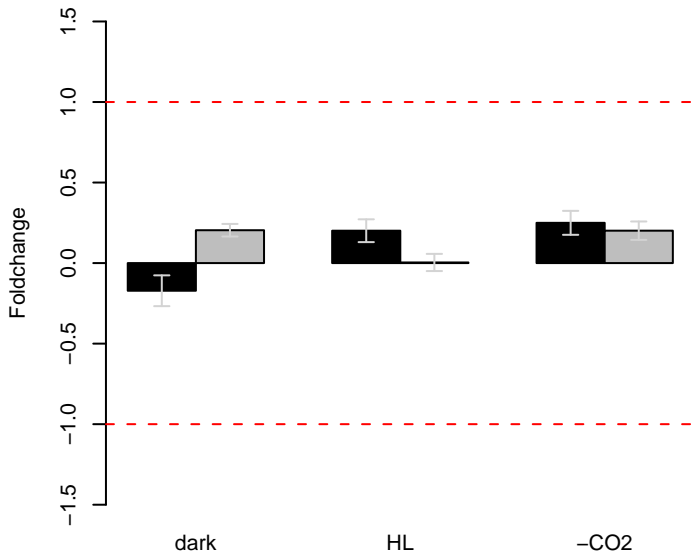
**sl10174**



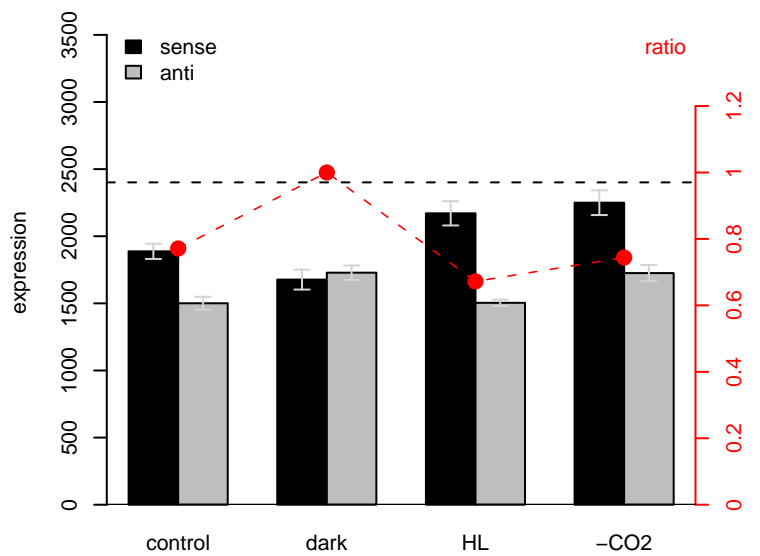
**genome\_3320**



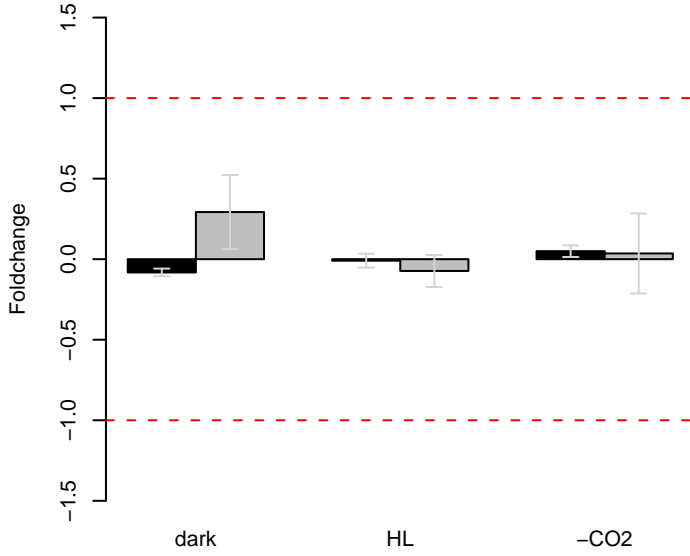
**gcvT(sl10171)**



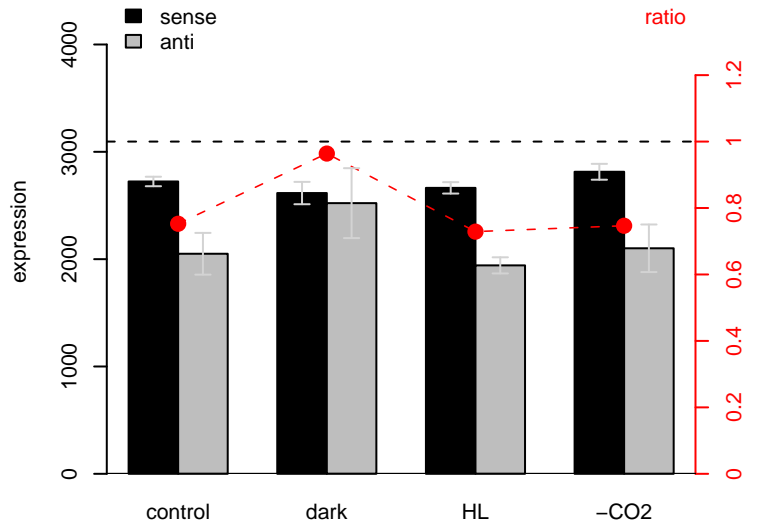
**genome\_3325**



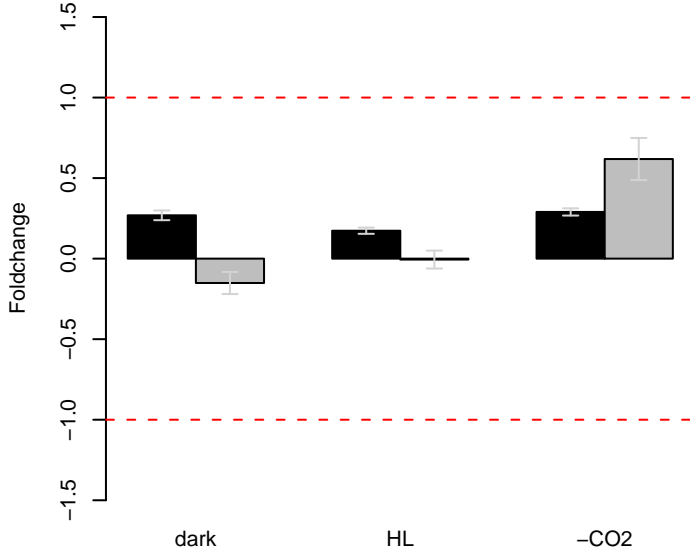
**hemD(sli0166)**



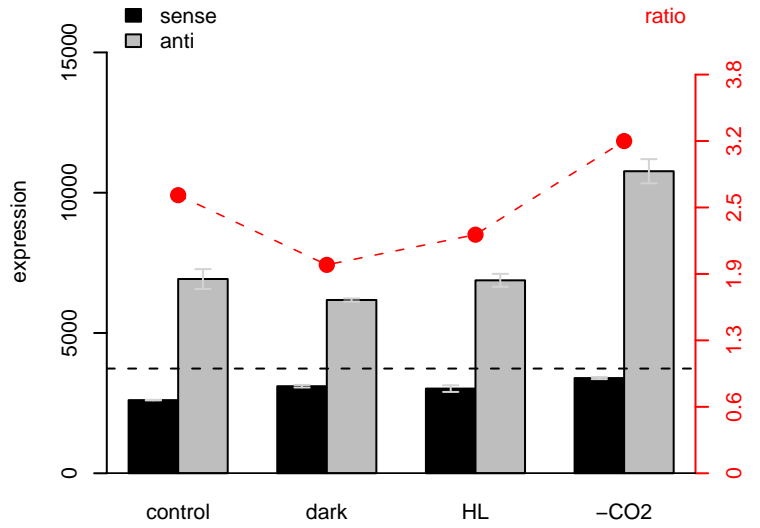
**genome\_3333**



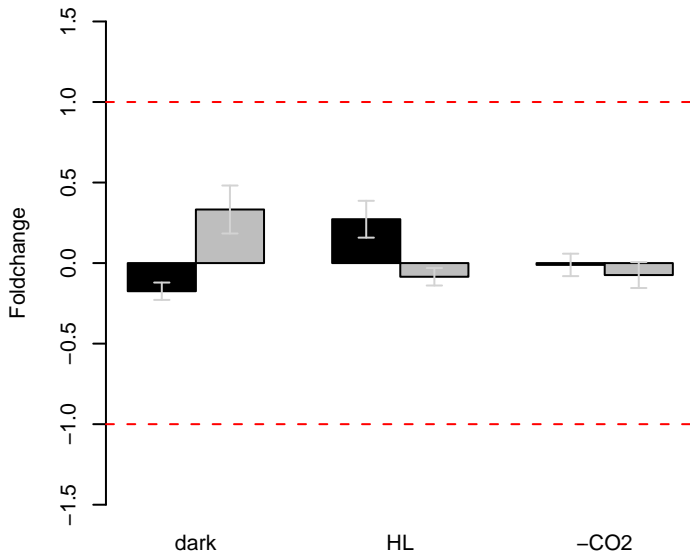
**recO(slr0181)**



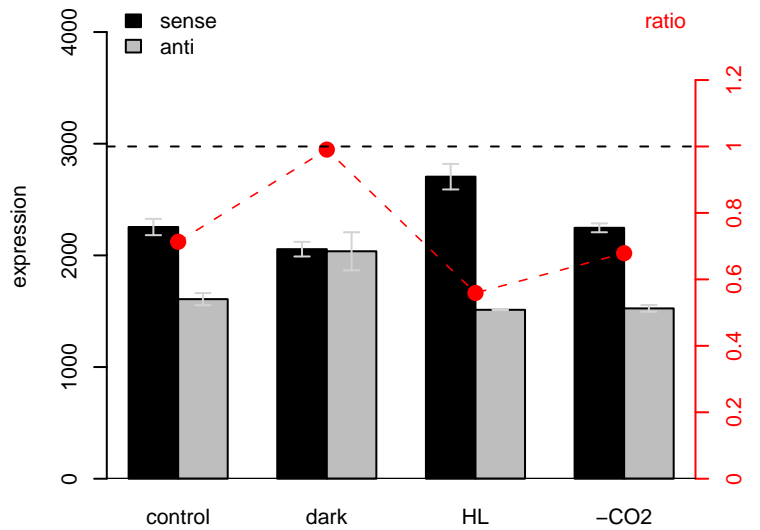
**genome\_3341**



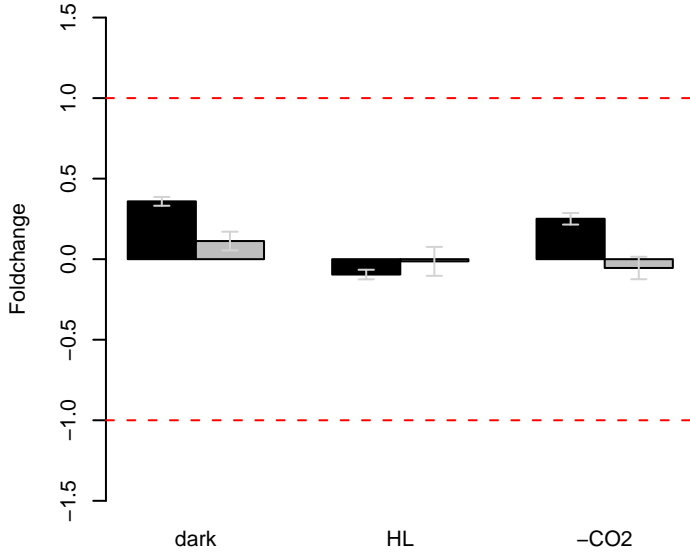
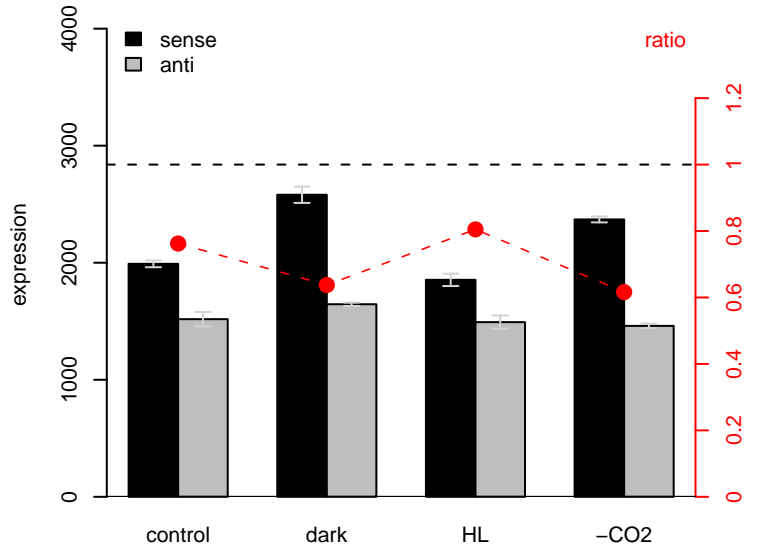
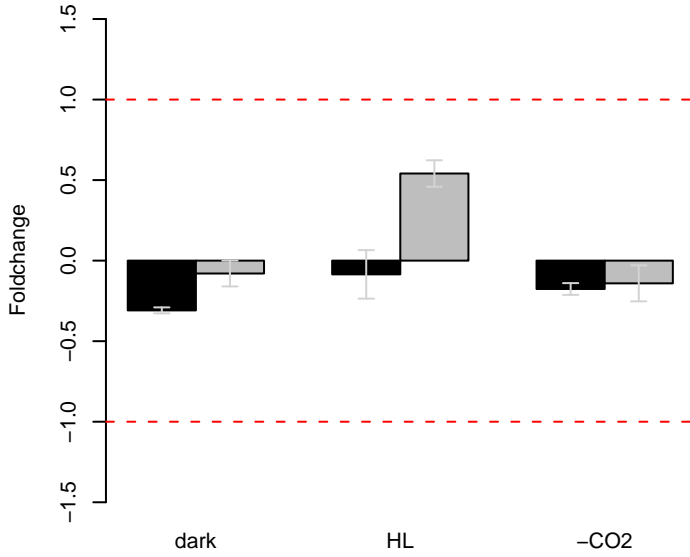
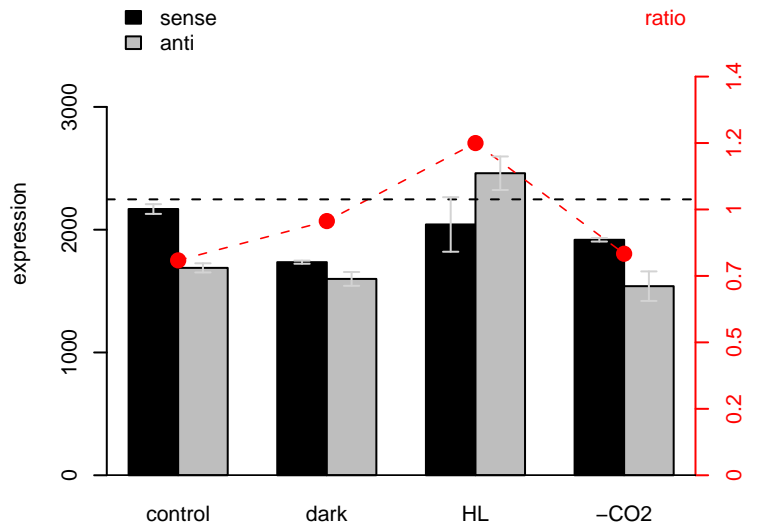
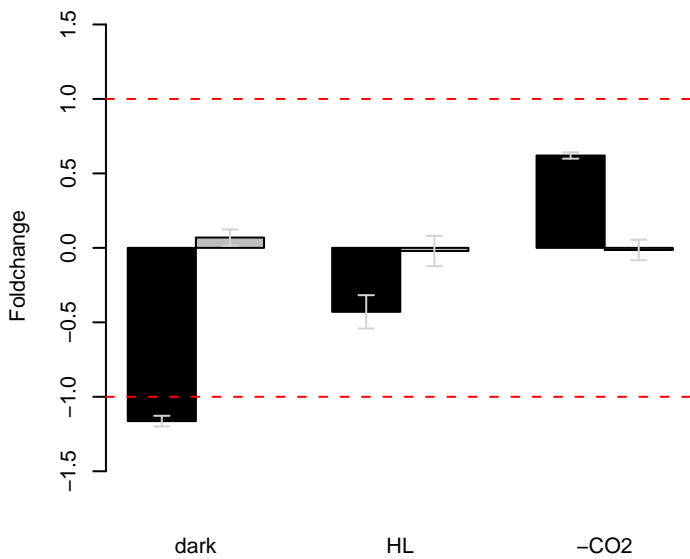
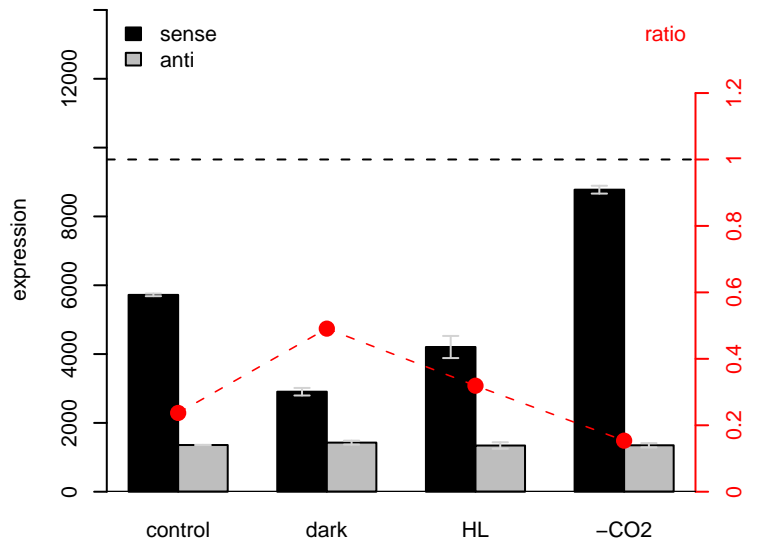
**sli0160**

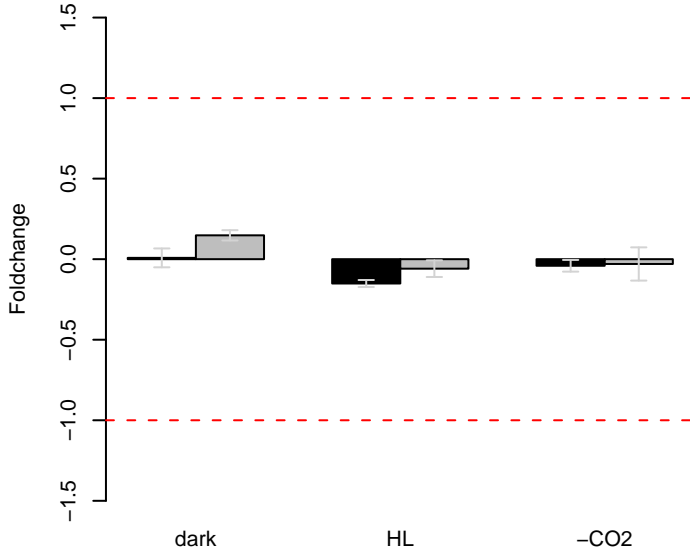
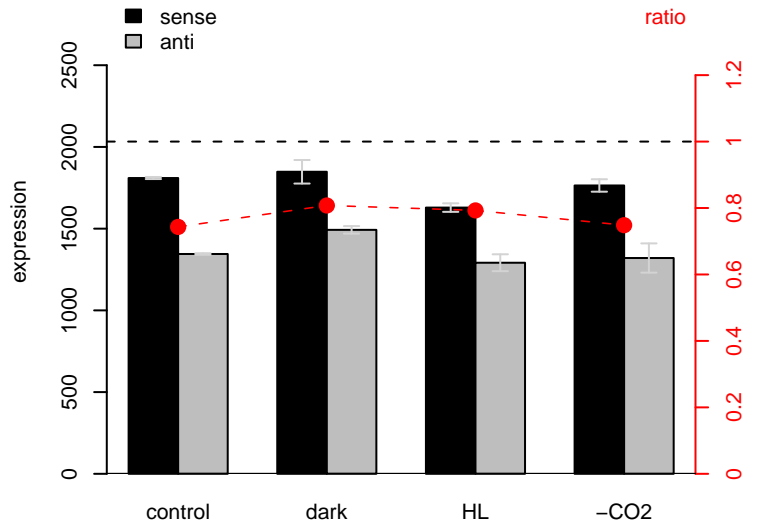
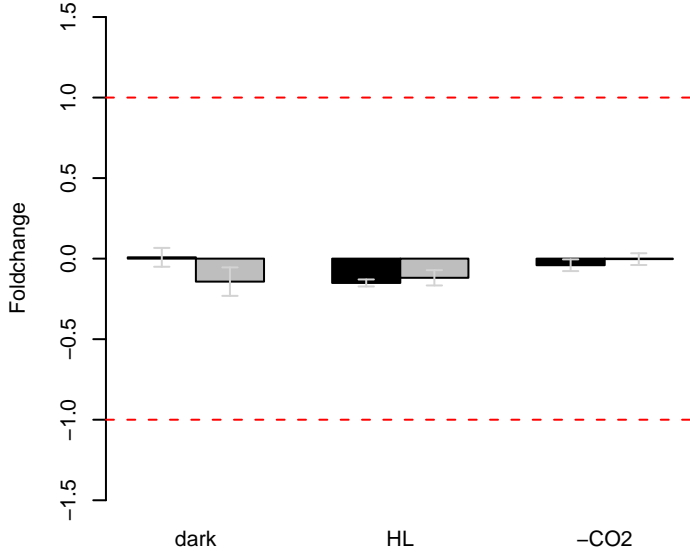
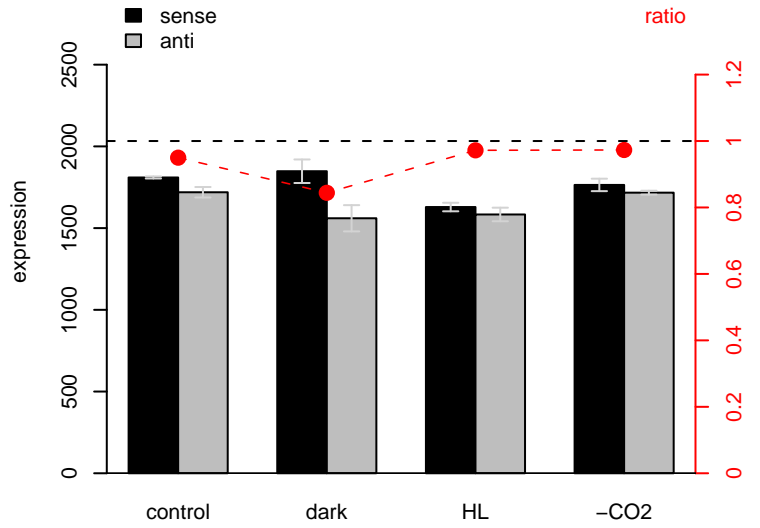
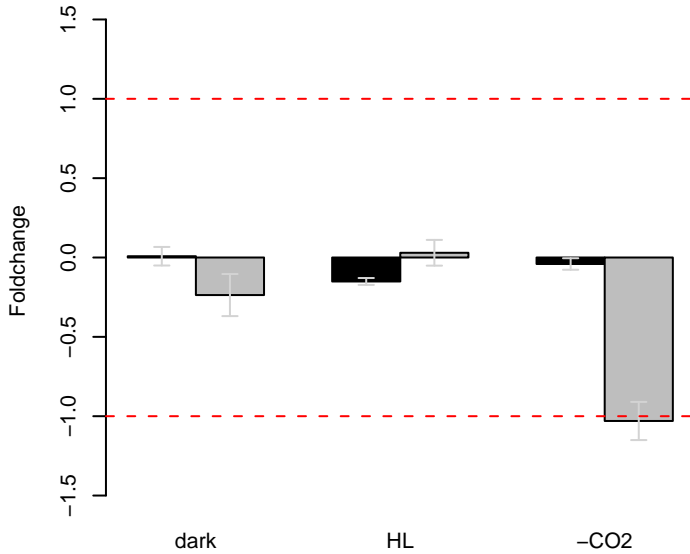
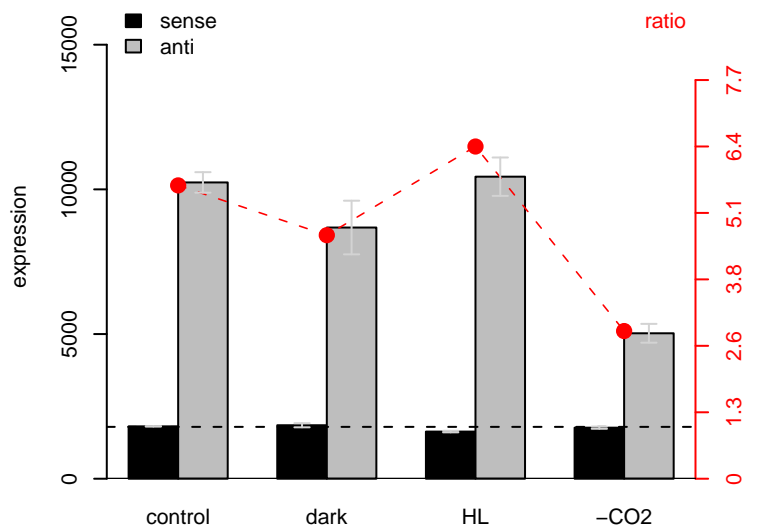


**genome\_3343**

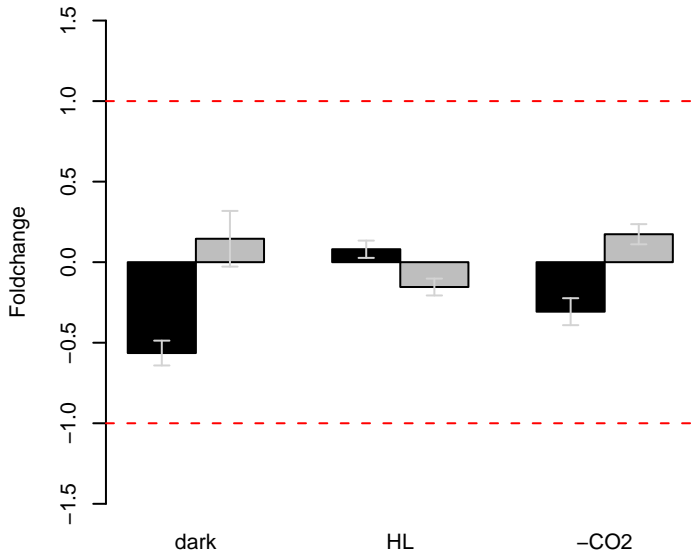




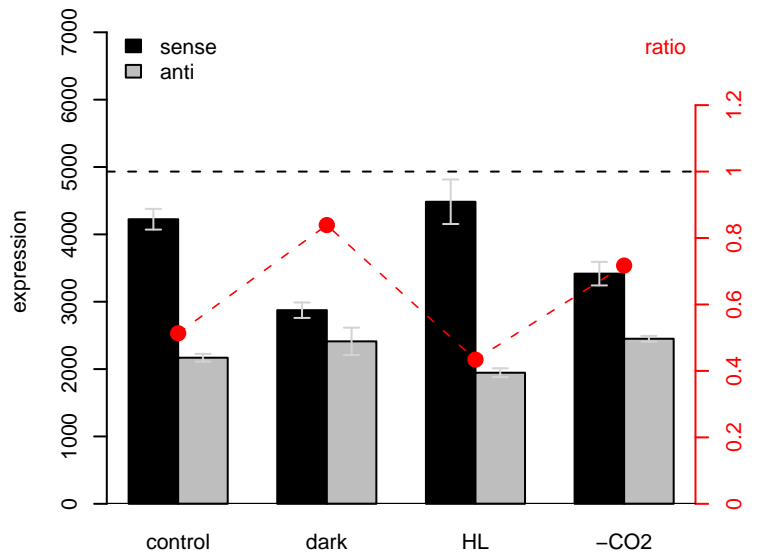
**slr0184****genome\_3348****sll1678****genome\_334****leuA(slr0186)****genome\_3352**

**slr0359****genome\_3355****slr0359****genome\_3355****slr0359****genome\_3355**

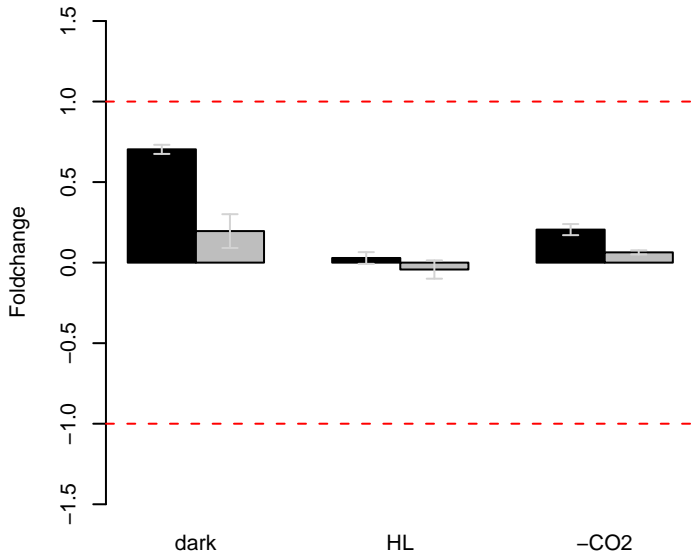
**slr0369**



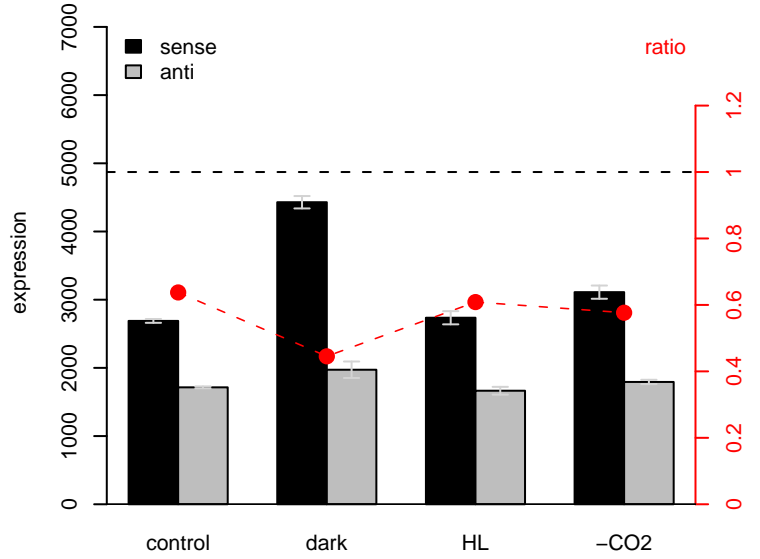
**genome\_3371**



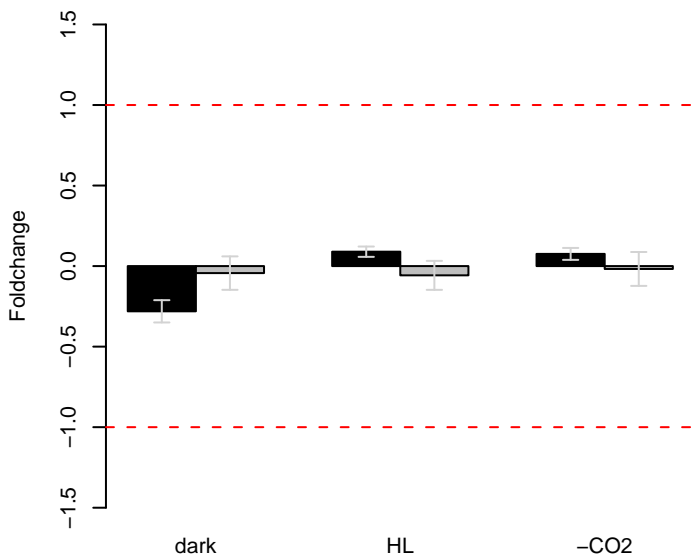
**gabD(slr0370)**



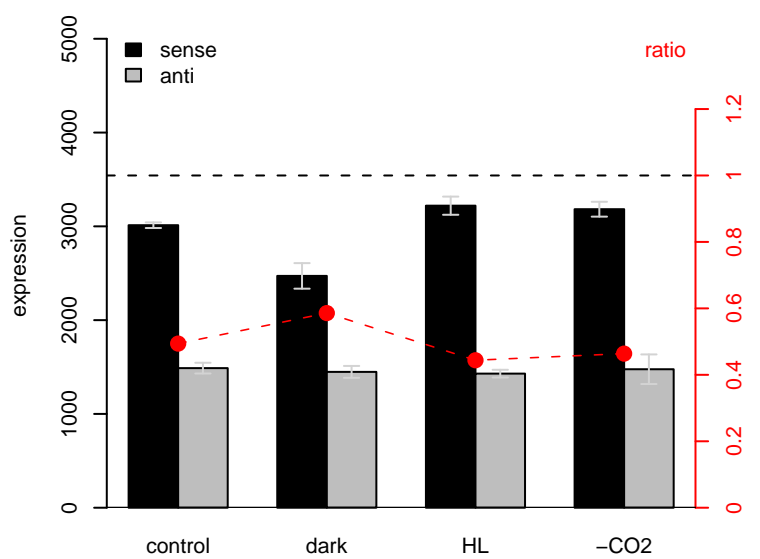
**genome\_3373**

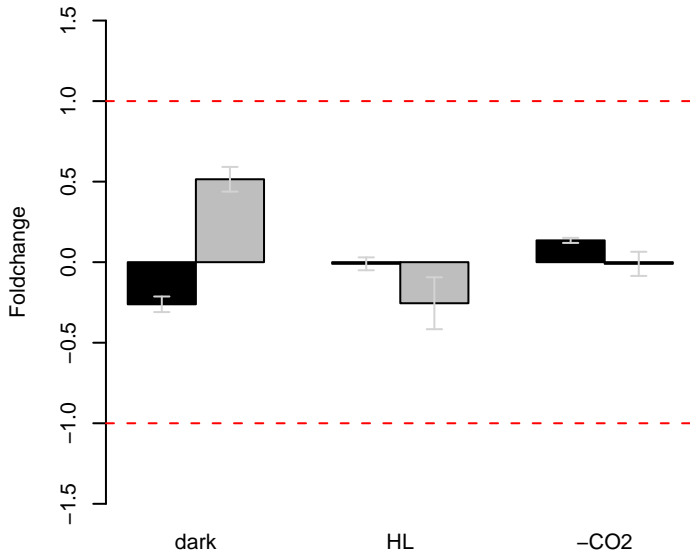
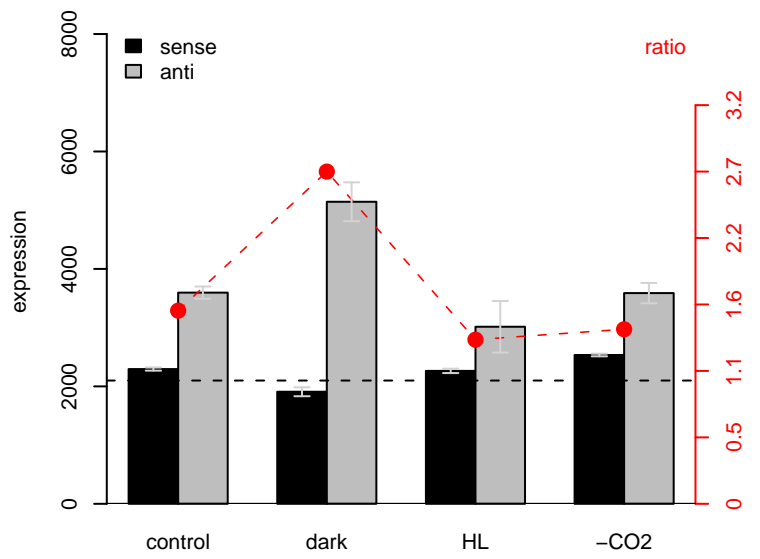
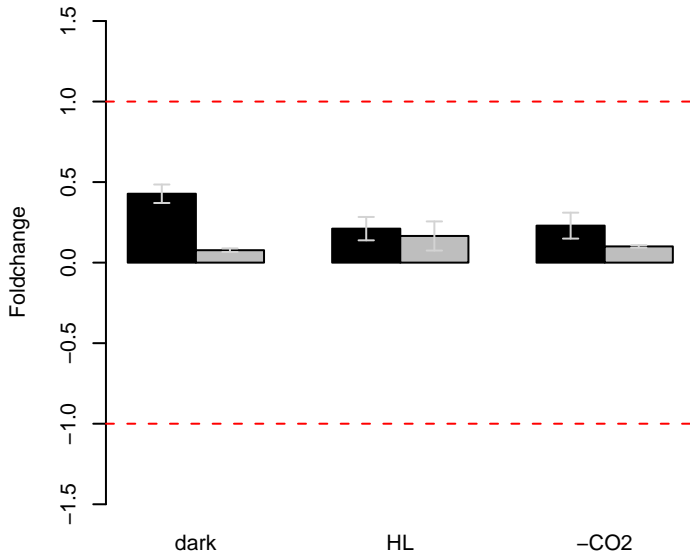
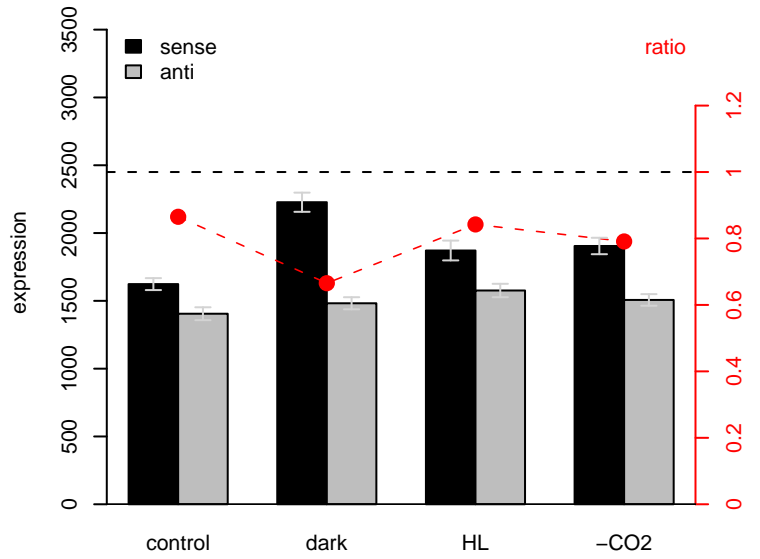
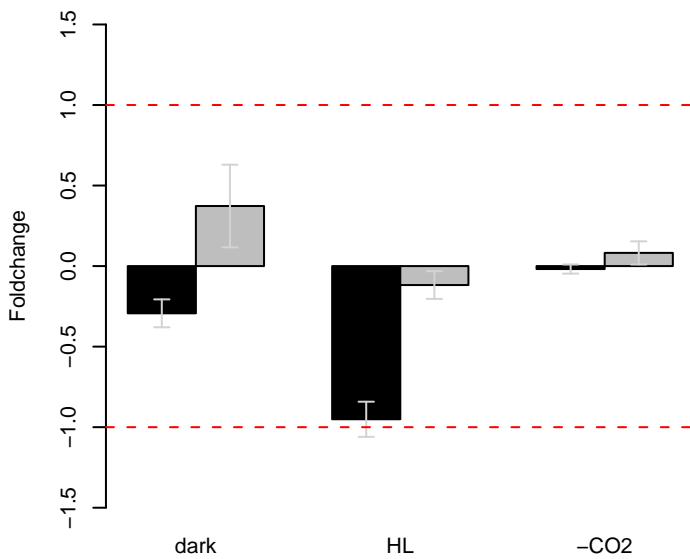
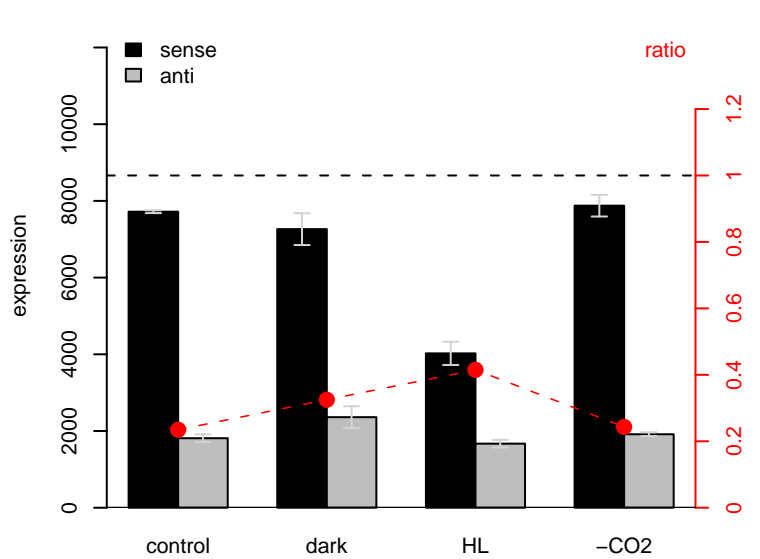


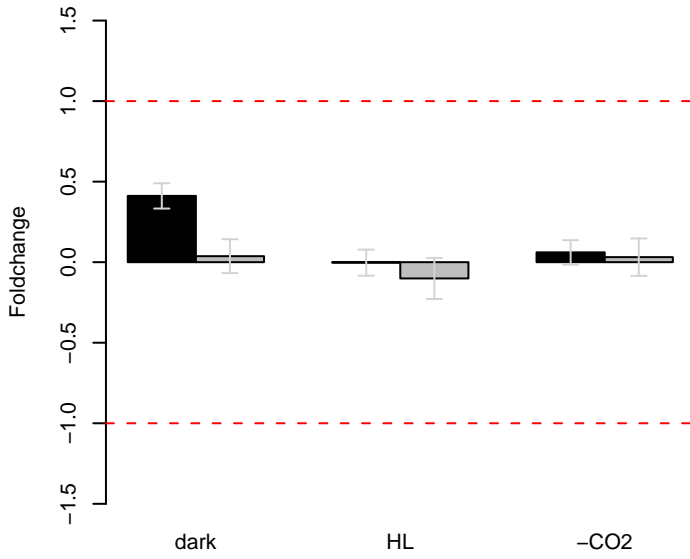
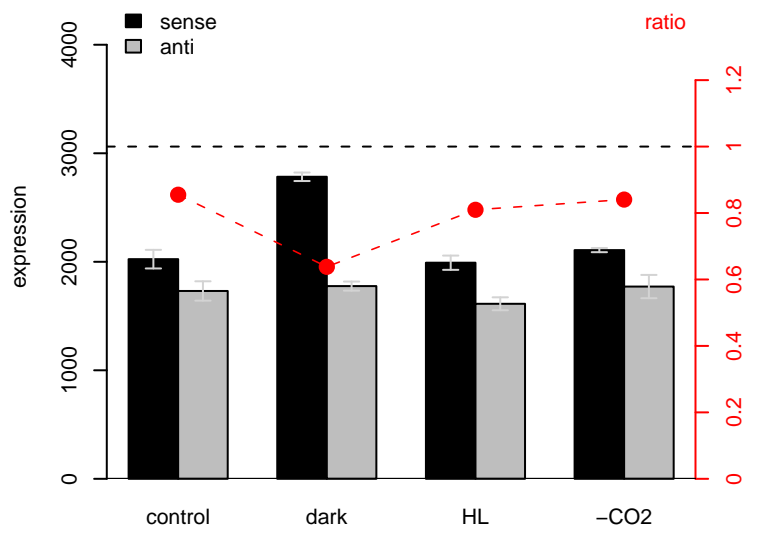
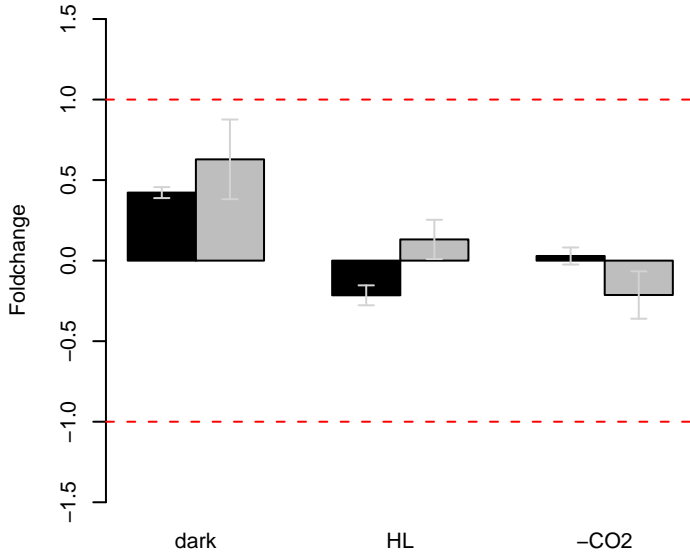
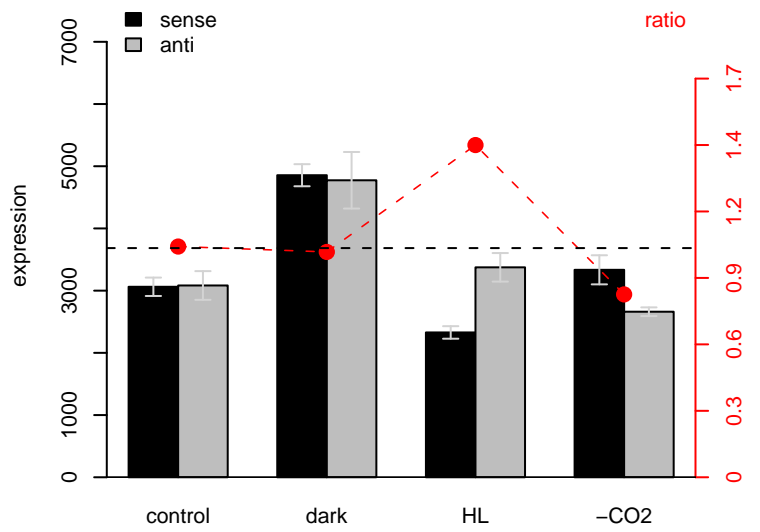
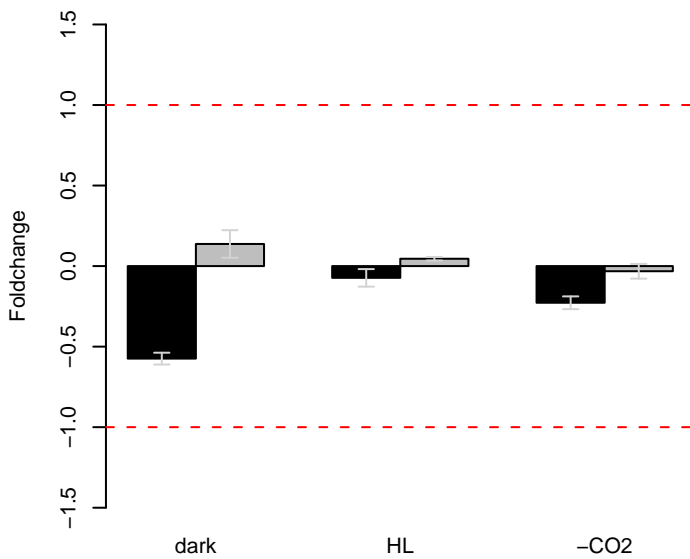
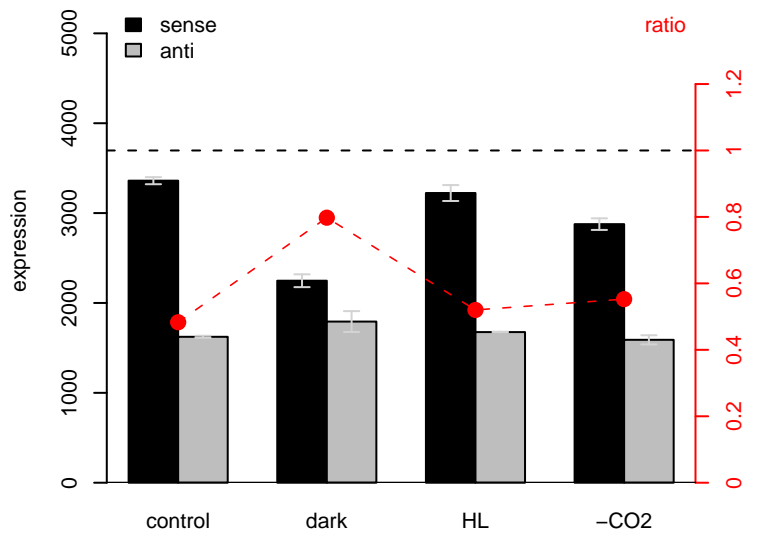
**accD(sll0336)**

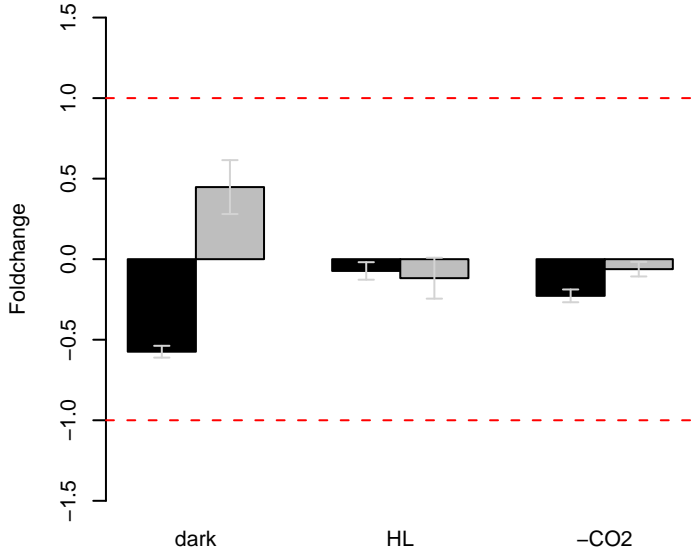
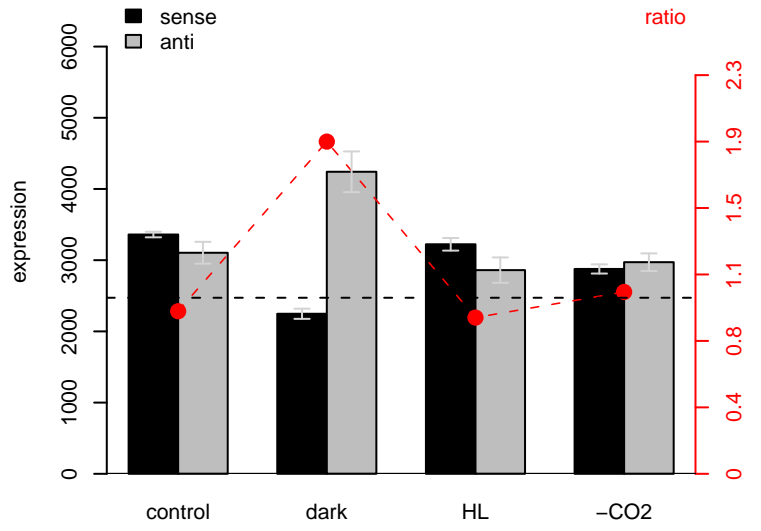
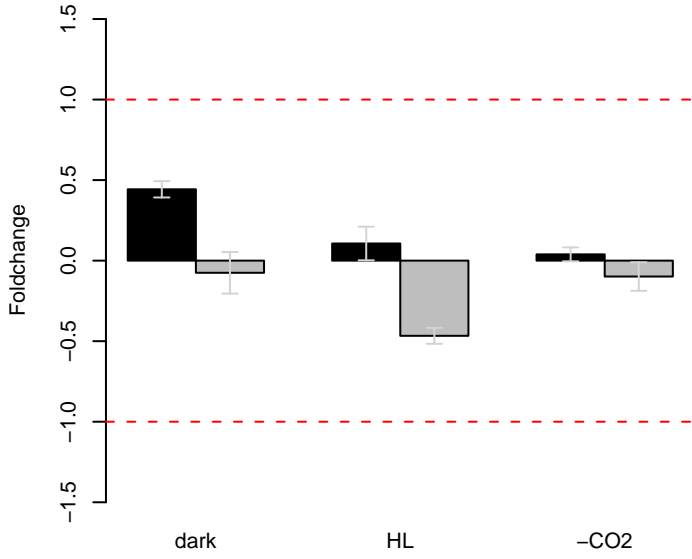
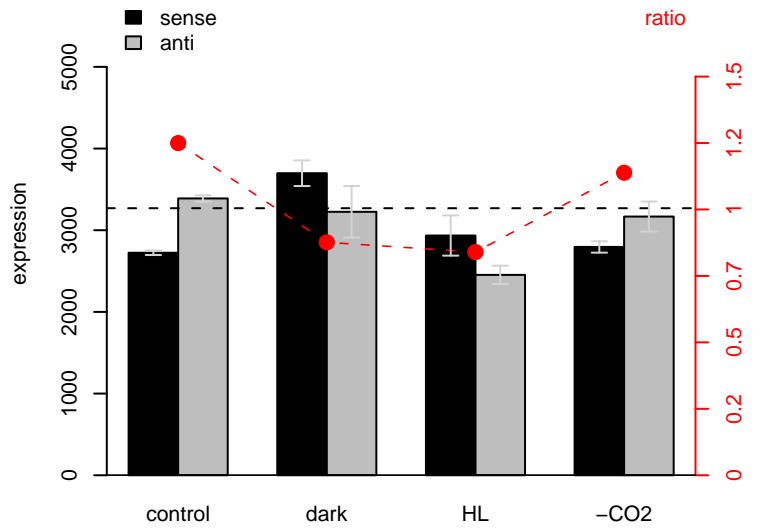
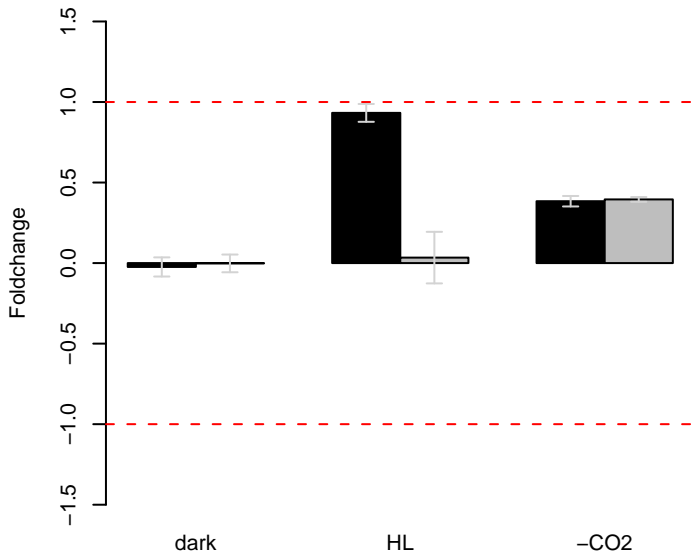
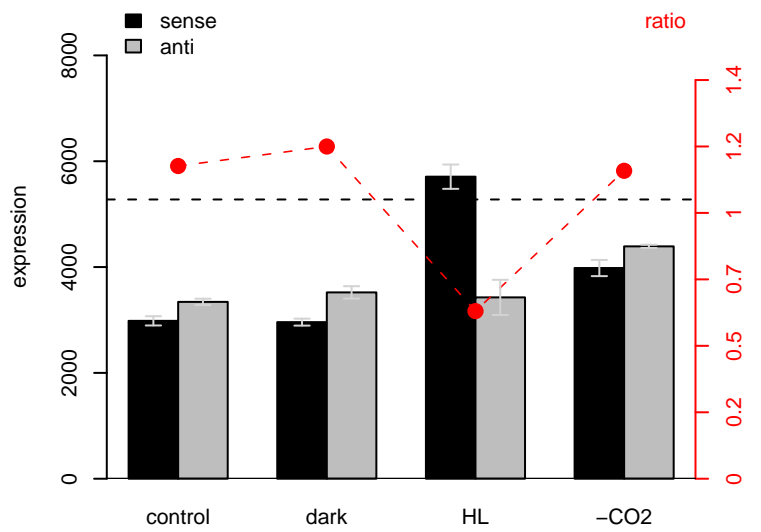


**genome\_3376**

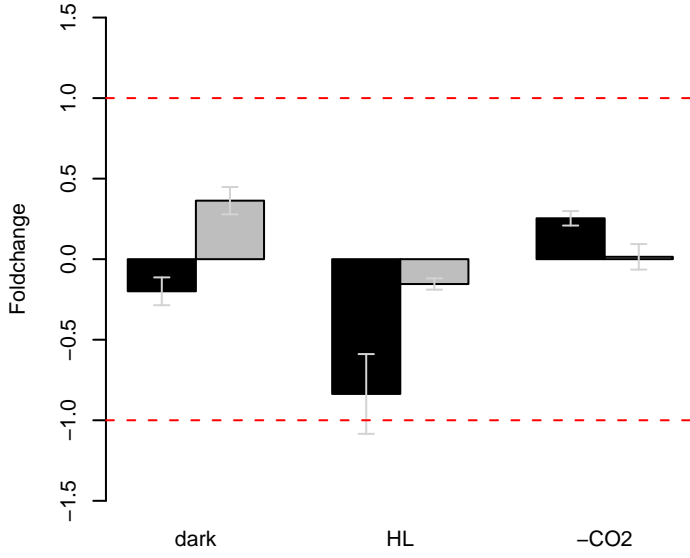


**slr0380****genome\_3386****fabG(sll0330)****genome\_3389****gnd(sll0329)****genome\_3393**

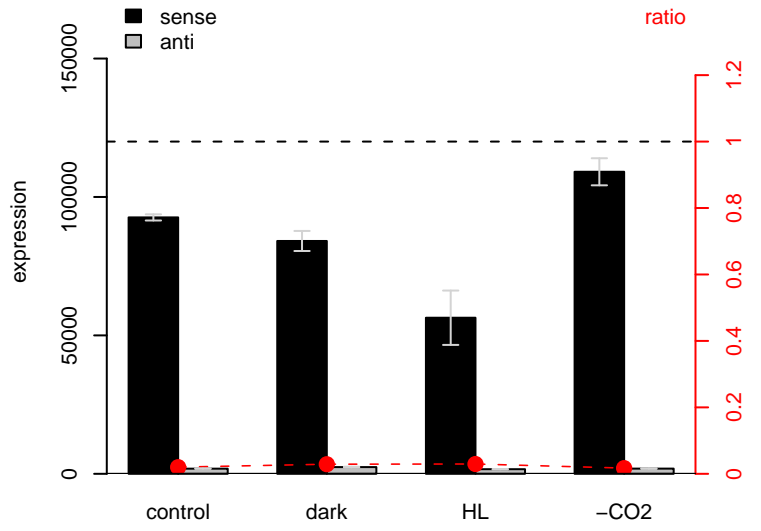
**slr0388****genome\_3400****slr0772****genome\_3408****lpxD(slr0776)****genome\_3413**

**lpxD(slr0776)****genome\_3413****sII0765****genome\_3420****sII0759****genome\_3429**

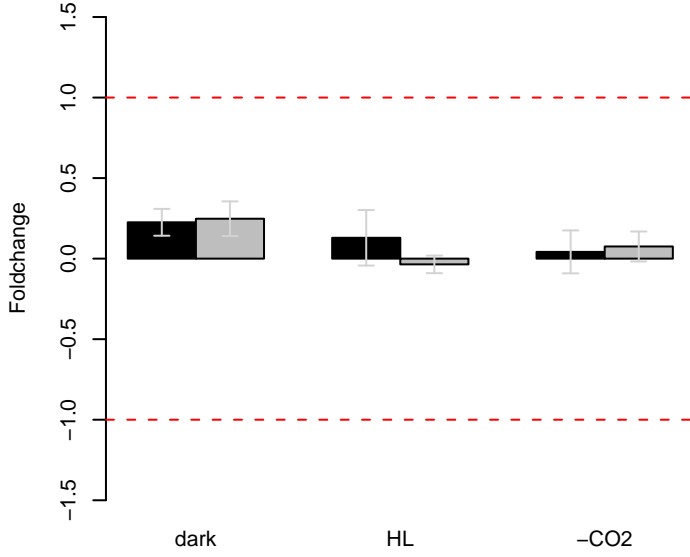
**psbT(smr0001)**



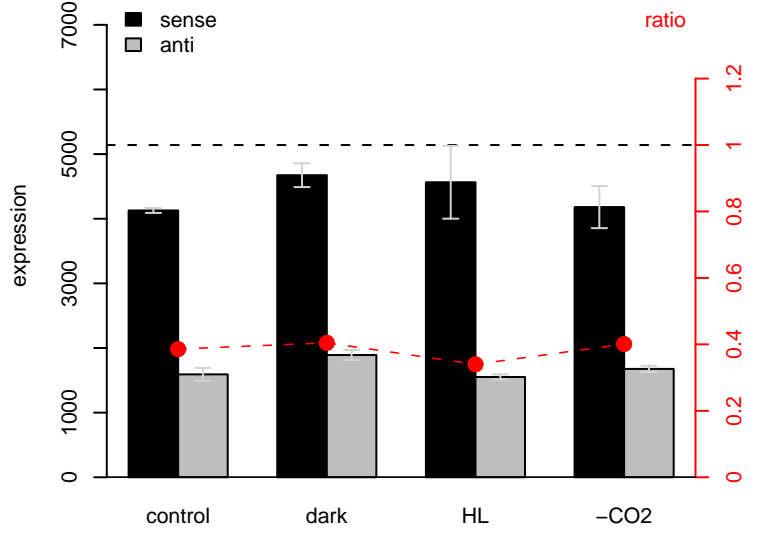
**genome\_3434**



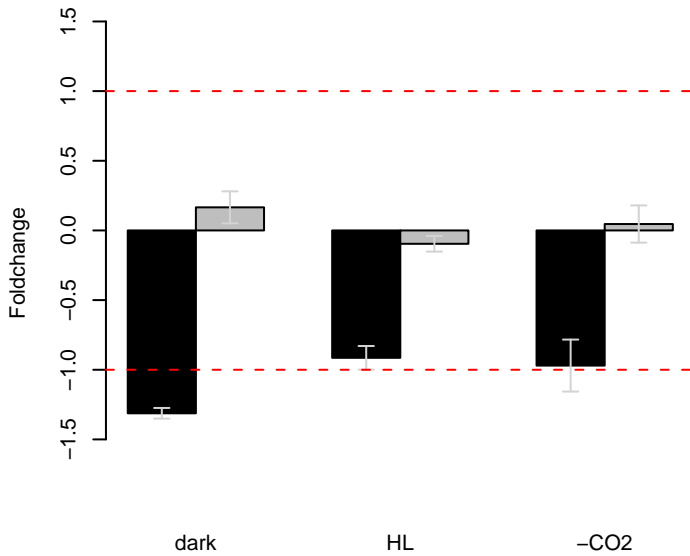
**rbfA(sll0754)**



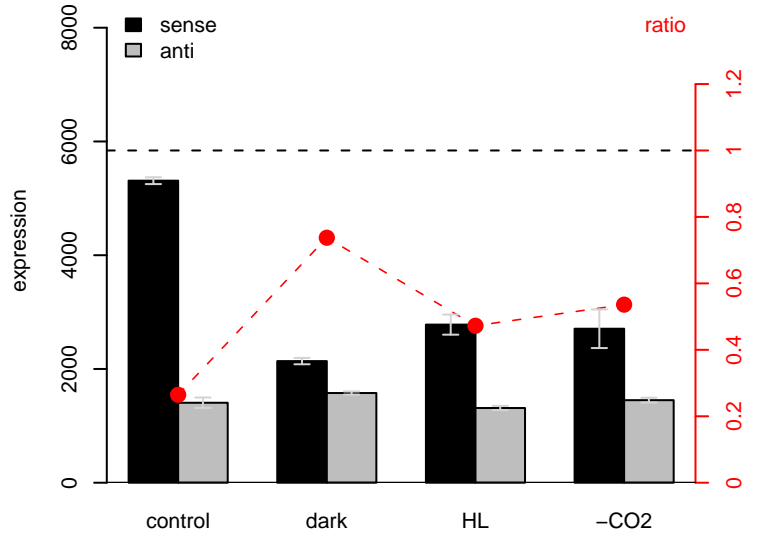
**genome\_3439**

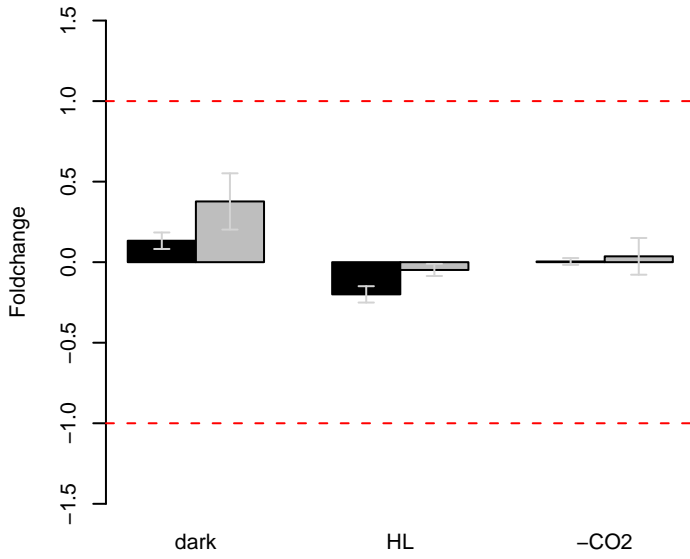
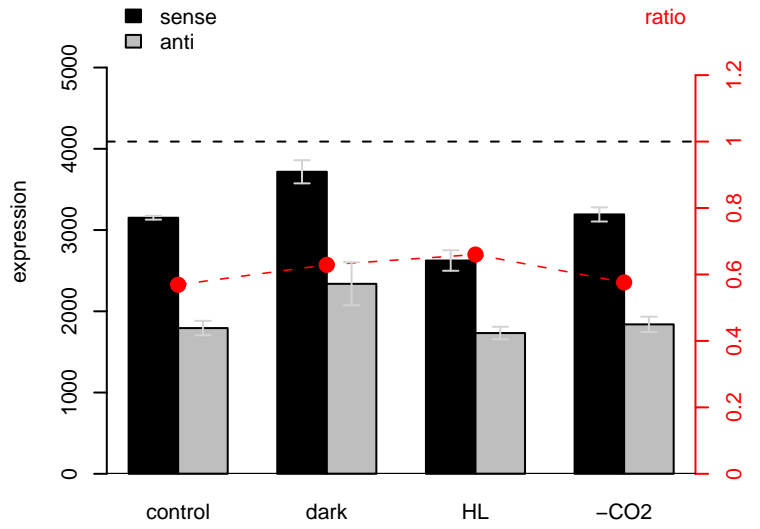
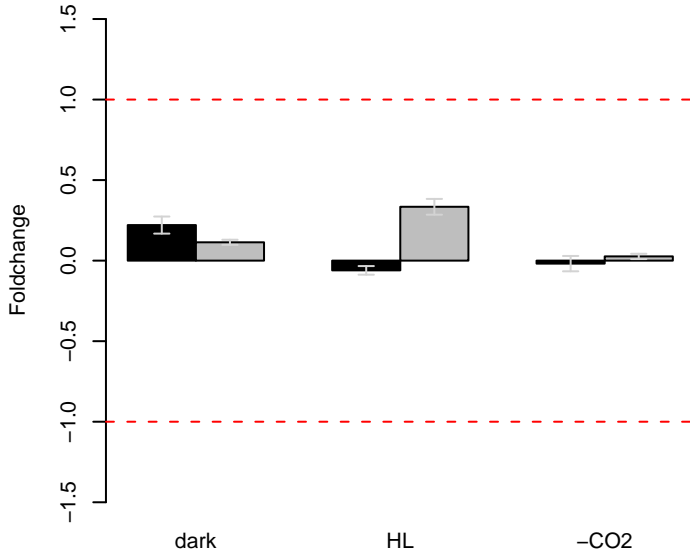
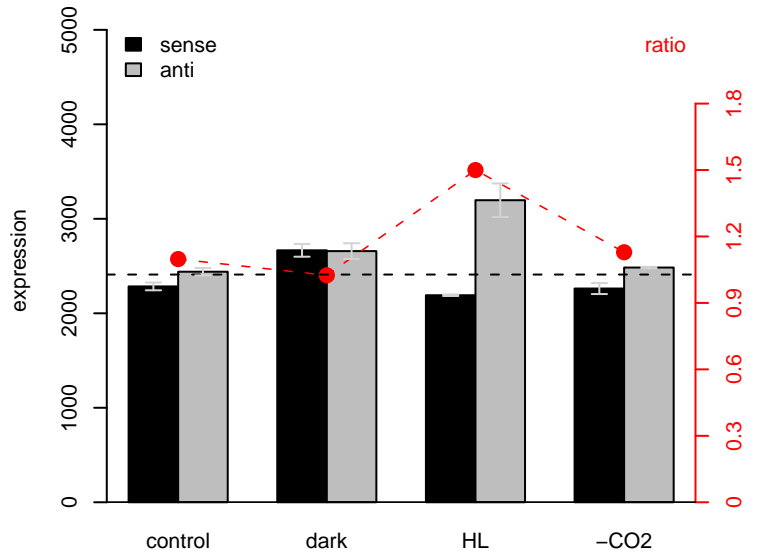
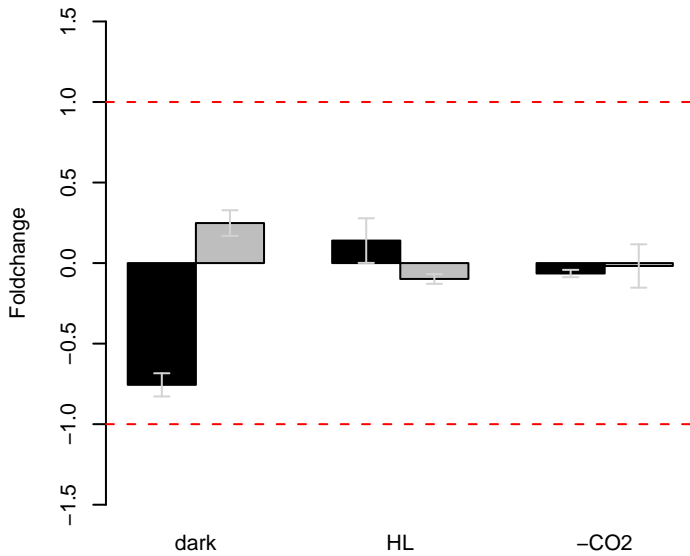
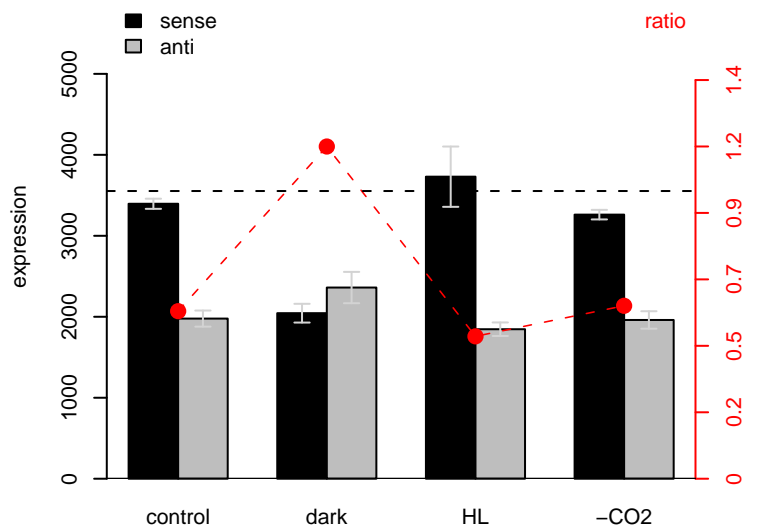


**slr1789**

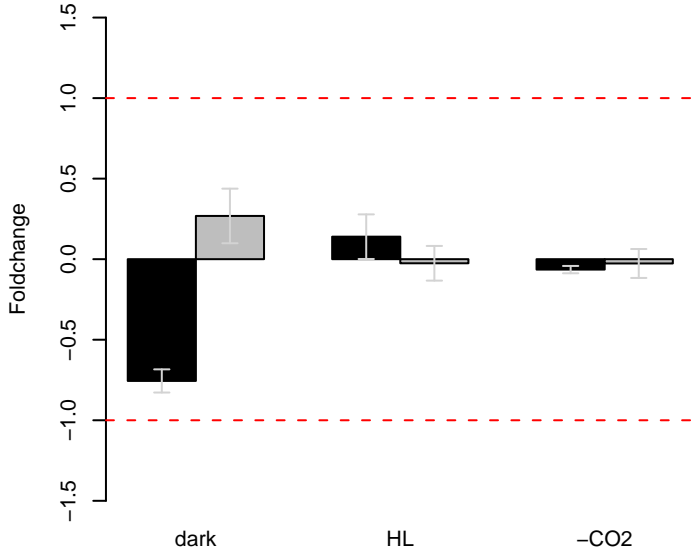
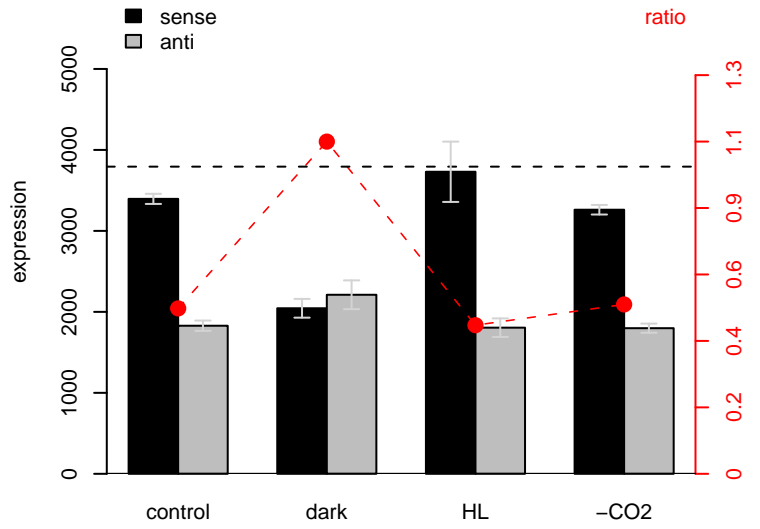
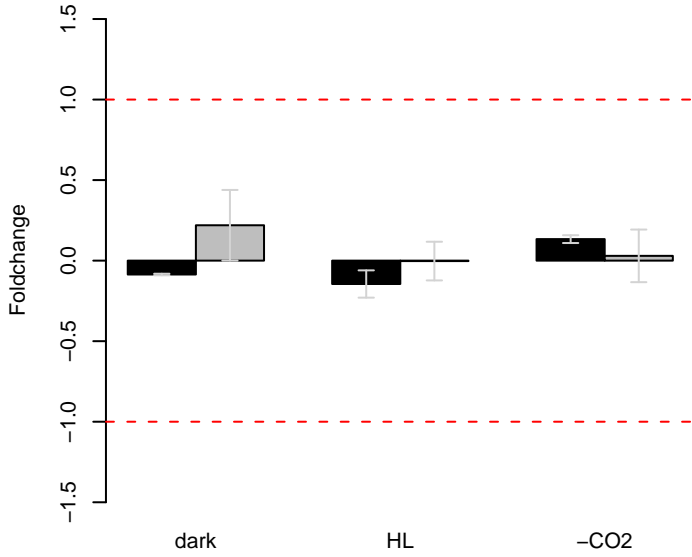
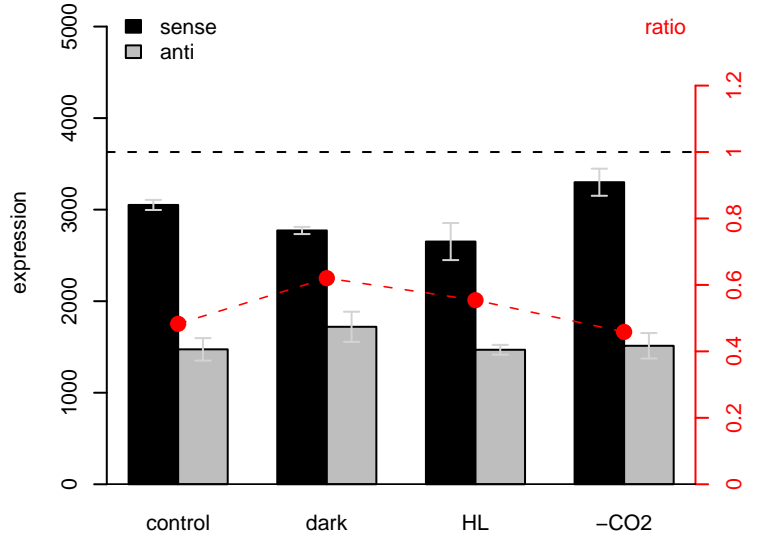
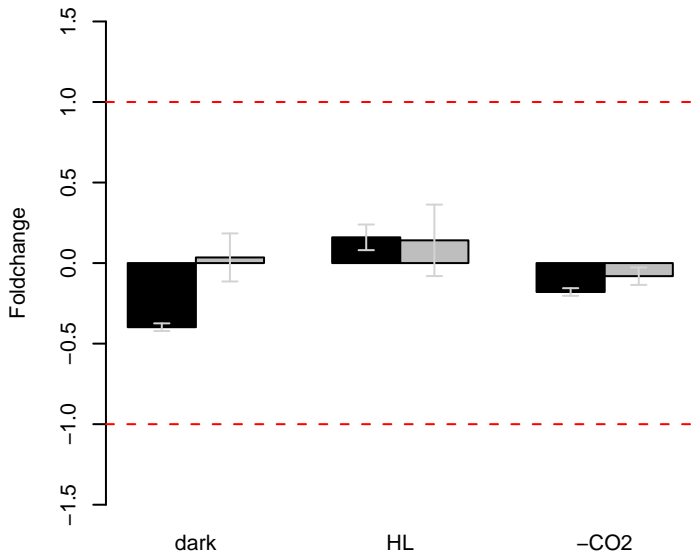
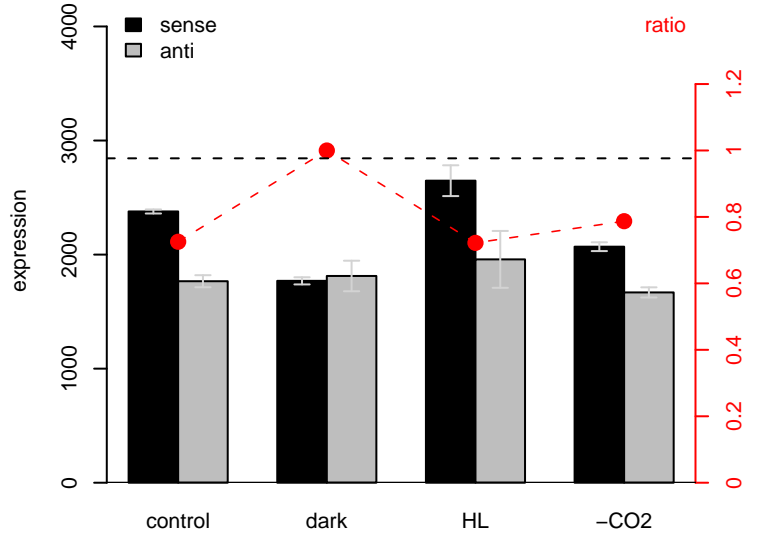


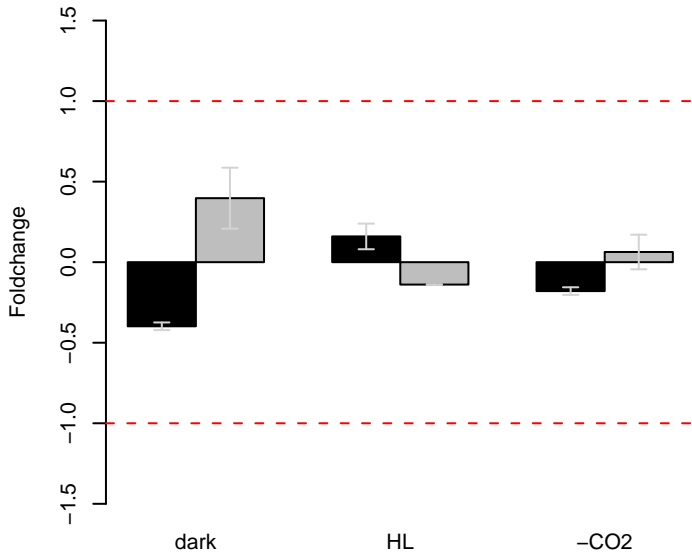
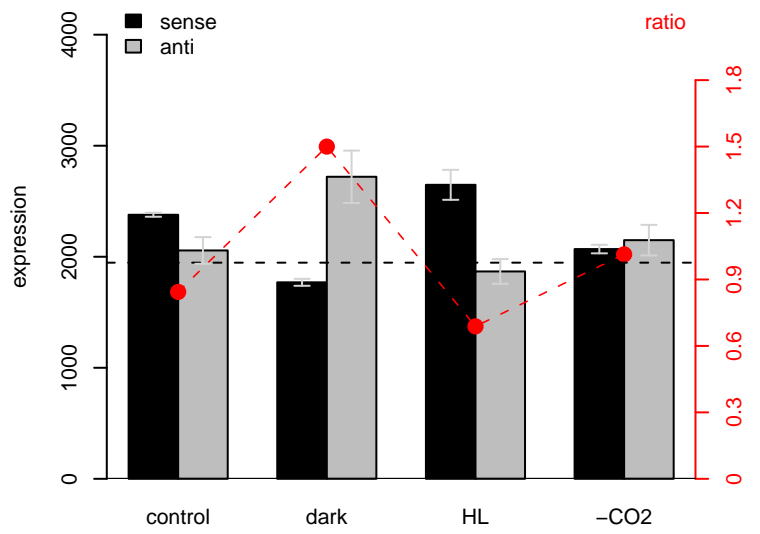
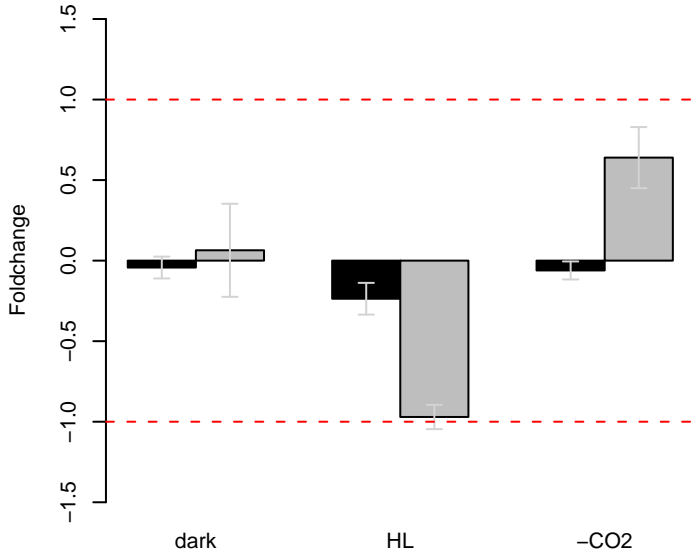
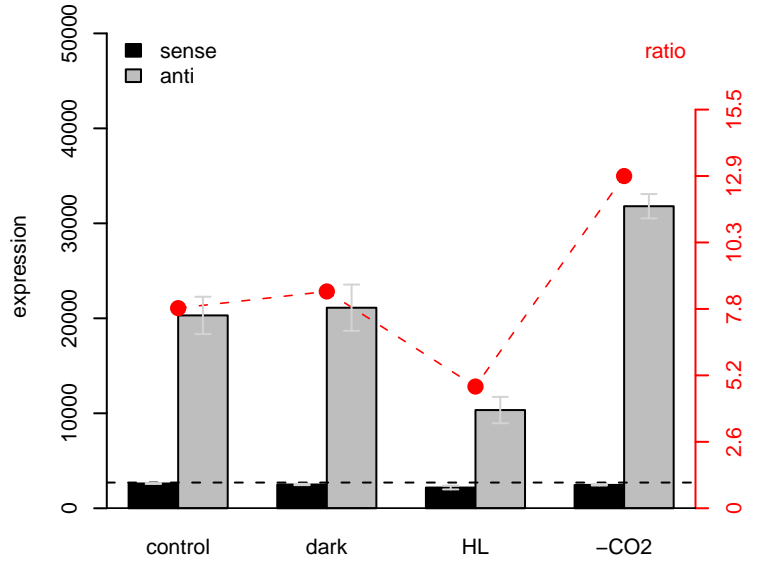
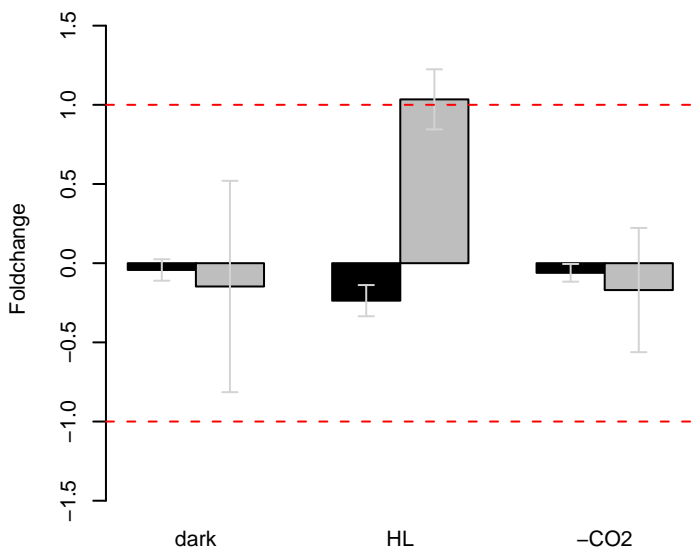
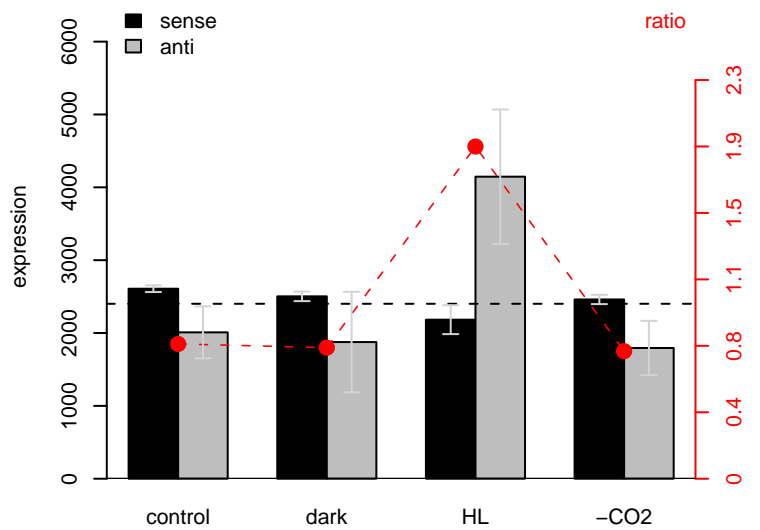
**genome\_343**

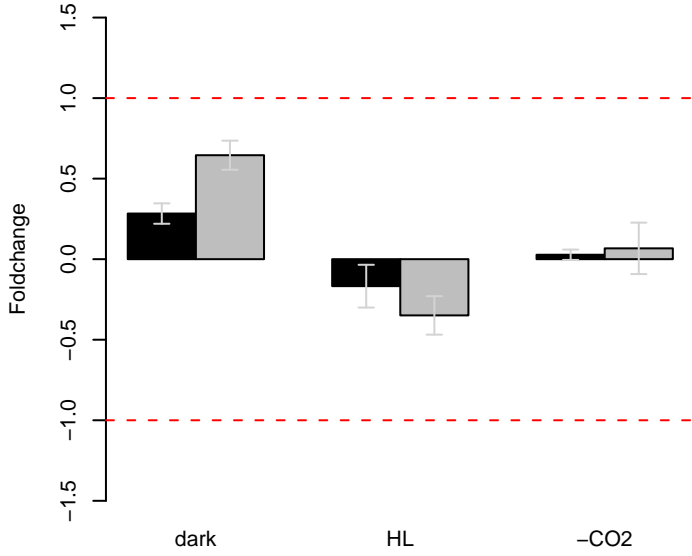
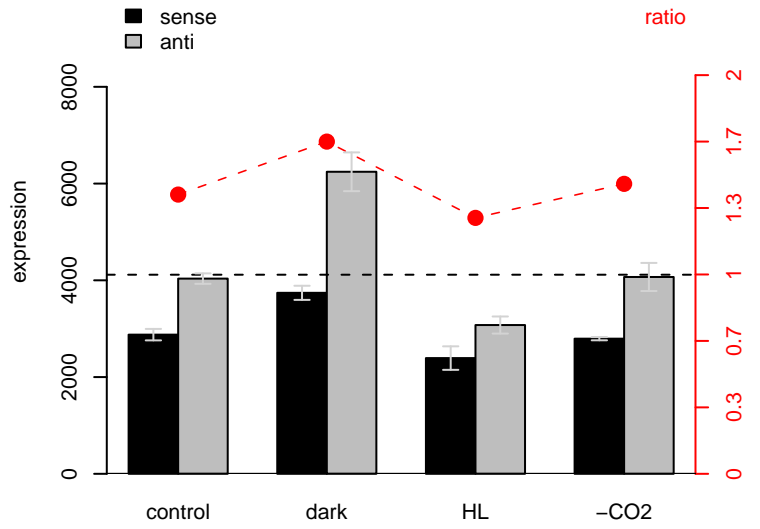
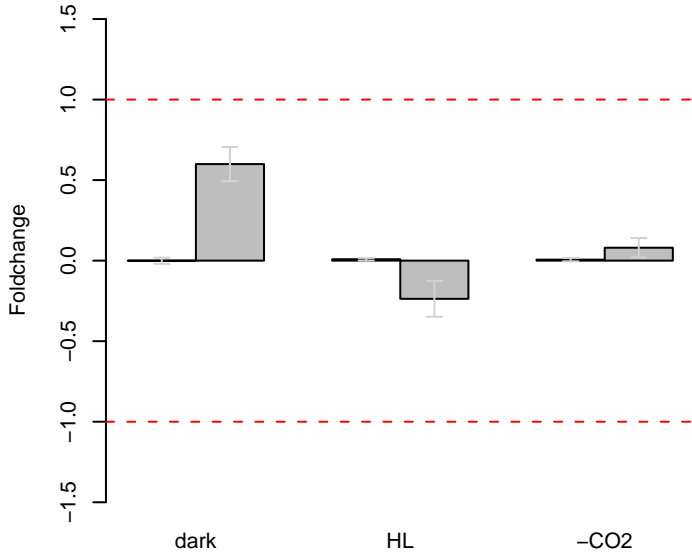
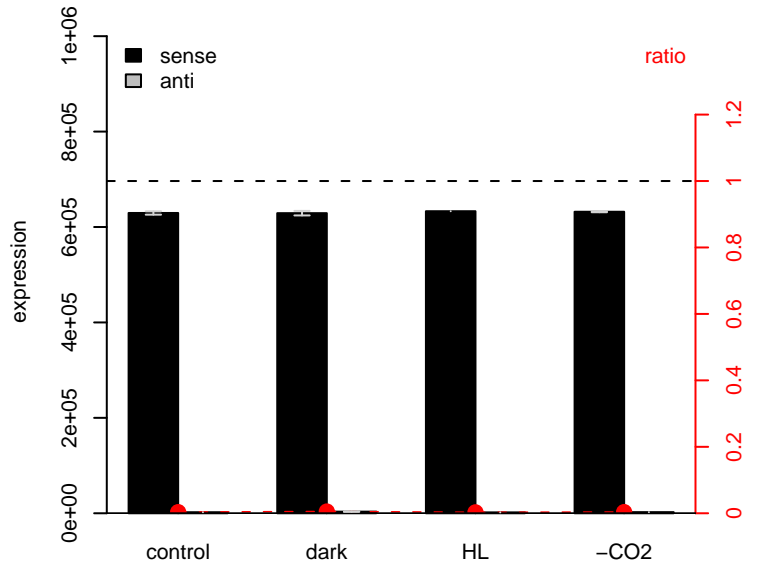
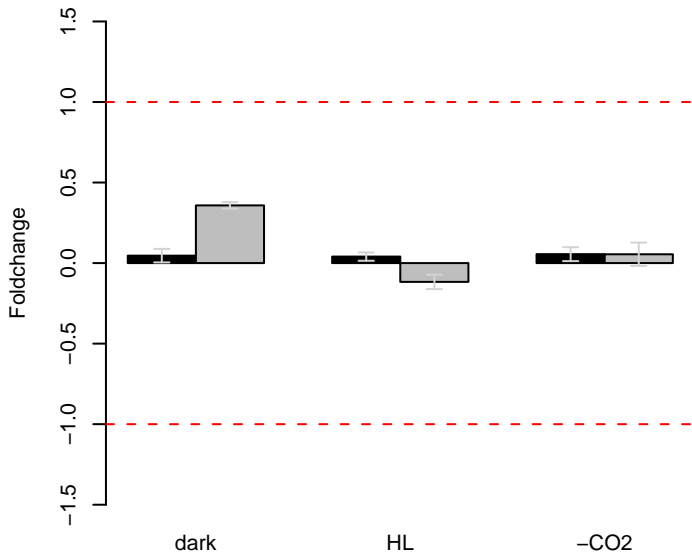
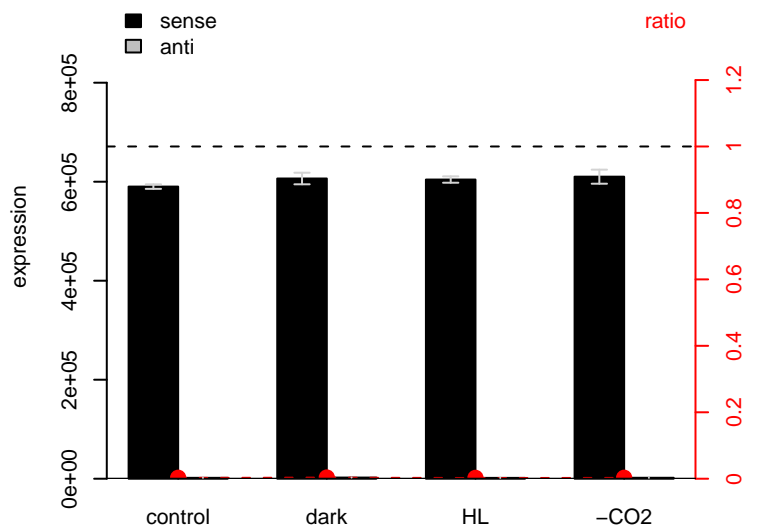


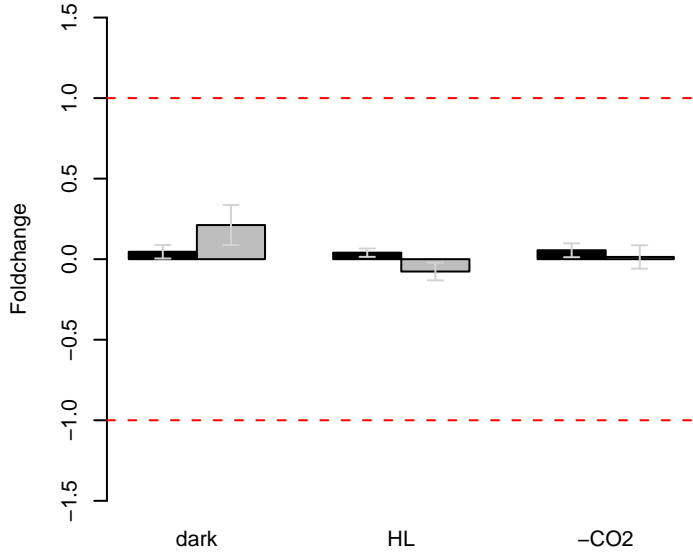
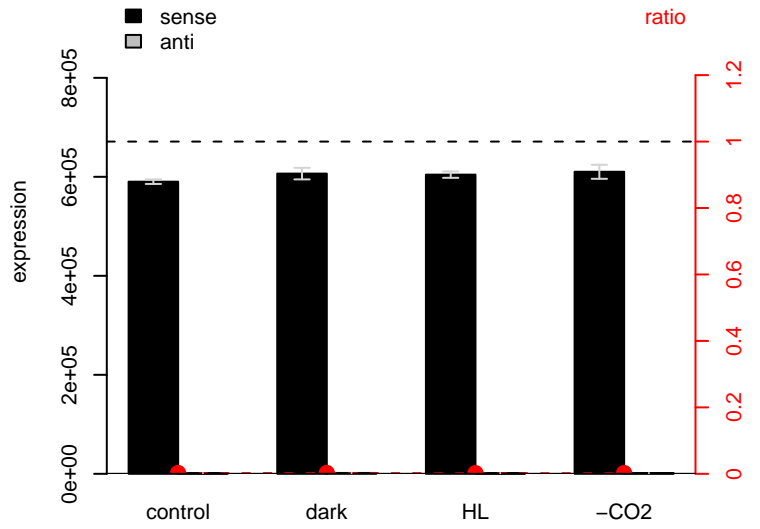
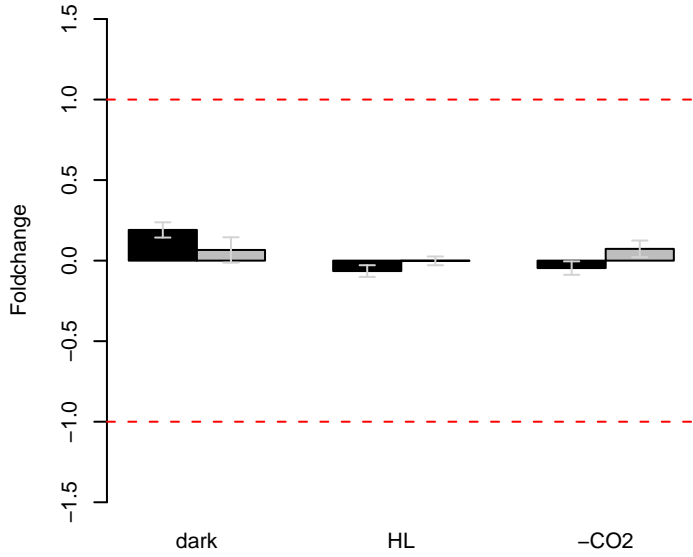
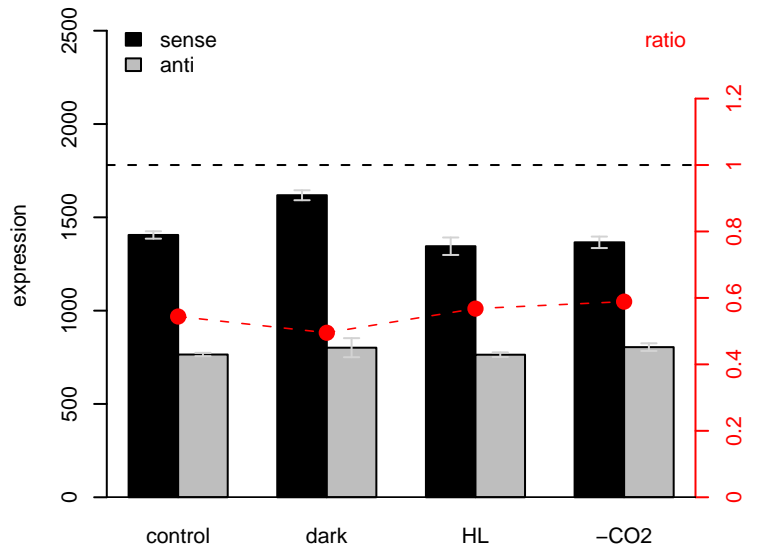
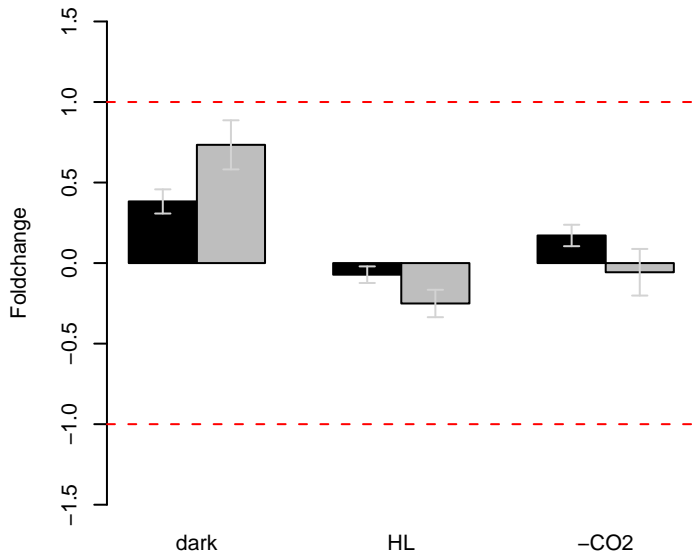
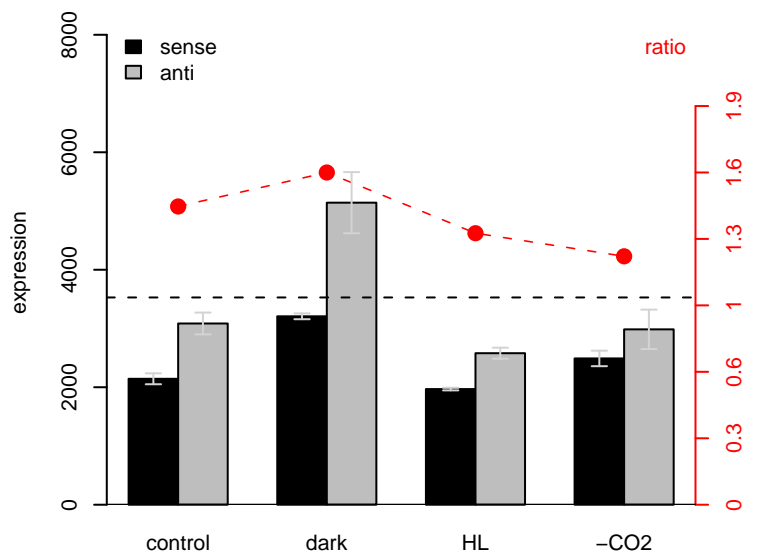
**slr0782****genome\_3444****sarA(sll0750)****genome\_3446****rnd(sll0320)****genome\_3464**



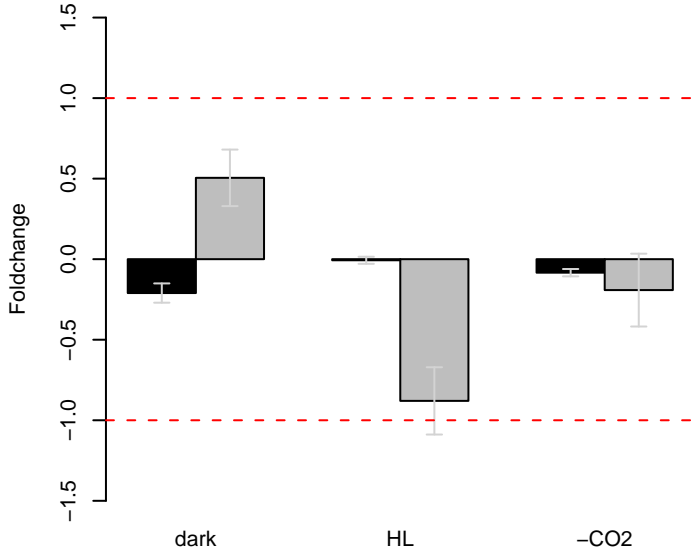
**rnd(sll0320)****genome\_3464****sll1672****genome\_346****slr0351****genome\_3471**

**slr0351****genome\_3471****slr0354****genome\_3483****slr0354****genome\_3483**

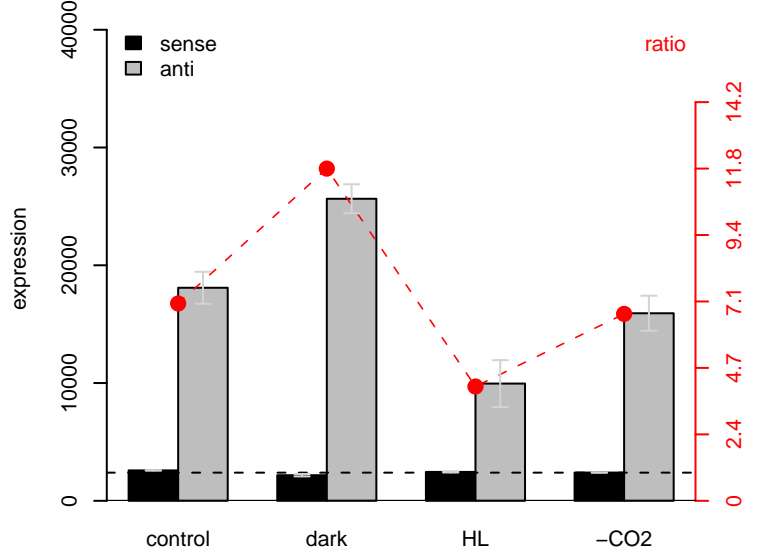
**sll1671****genome\_348****rrn23Sb****genome\_3489****rrn16Sb****genome\_3493**

**rrn16Sb****genome\_3493****sll1405****genome\_37****sll0312****genome\_3500**

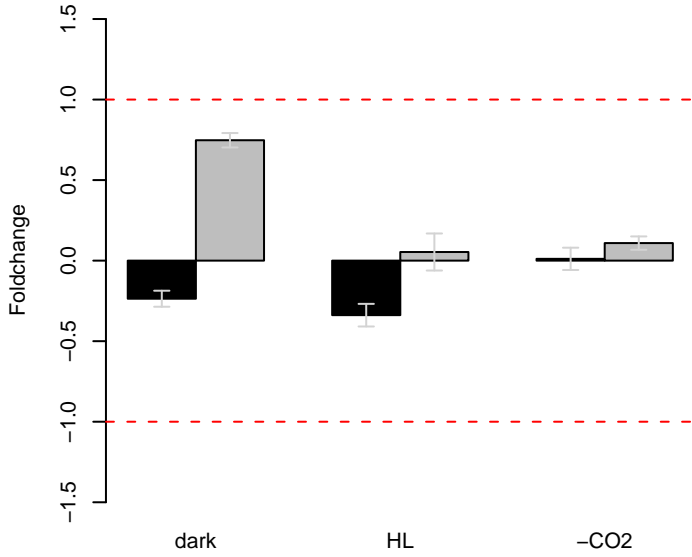
**hisS(slr0357)**



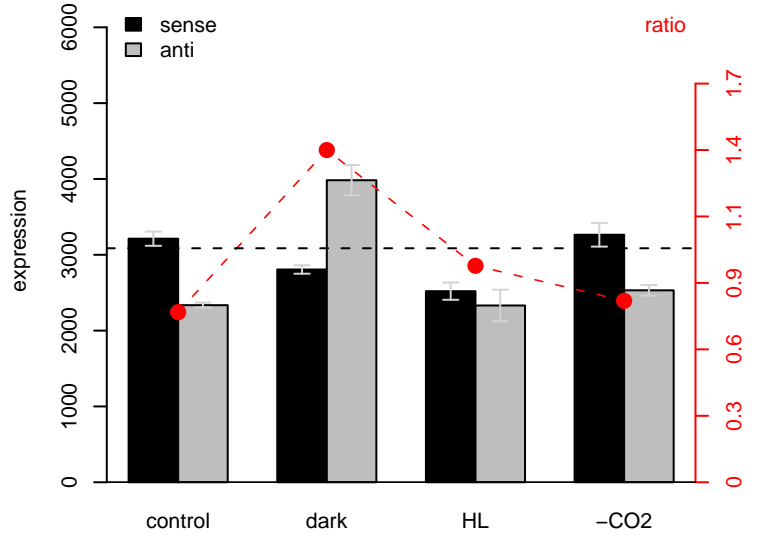
**genome\_3502**



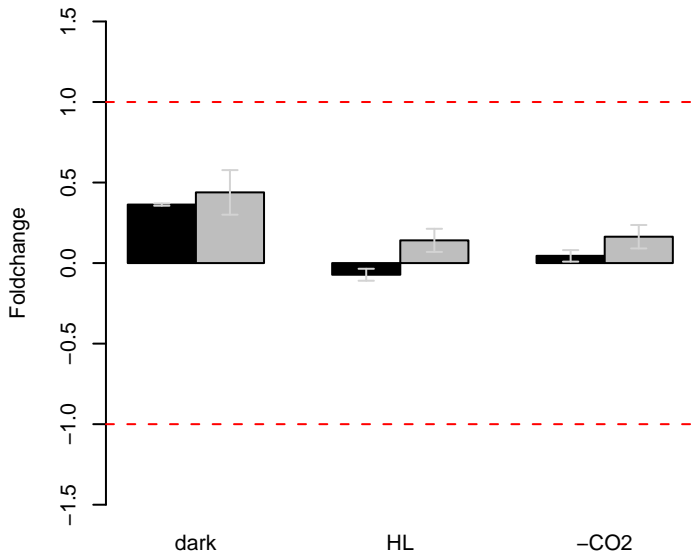
**slr0358**



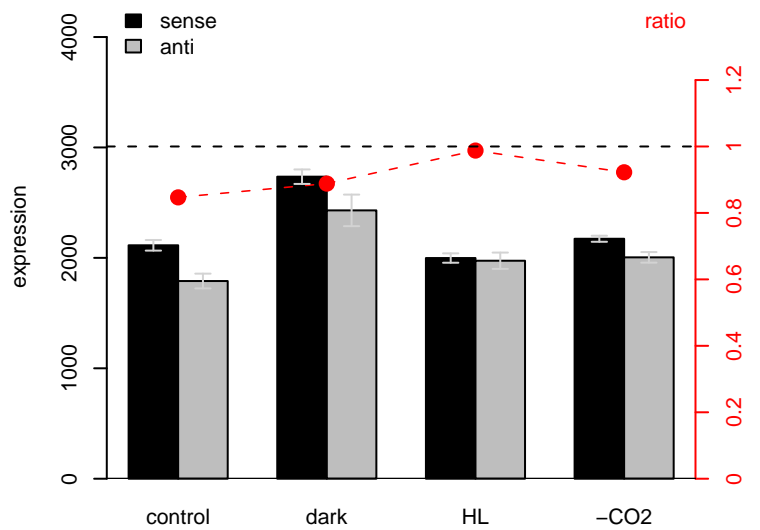
**genome\_3505**

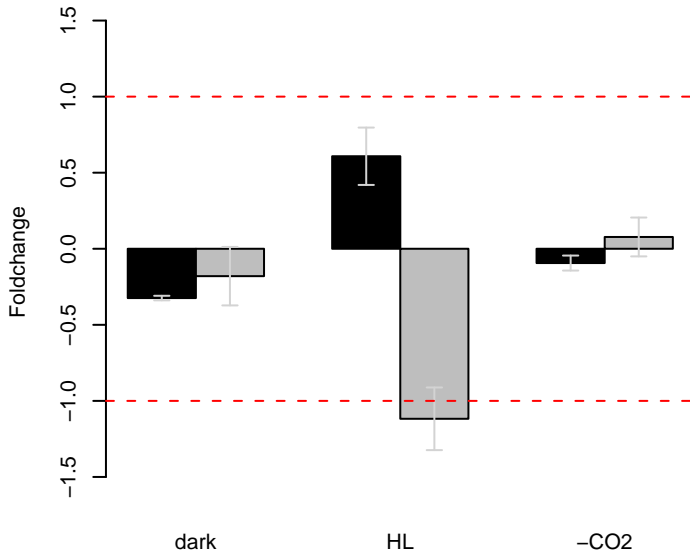
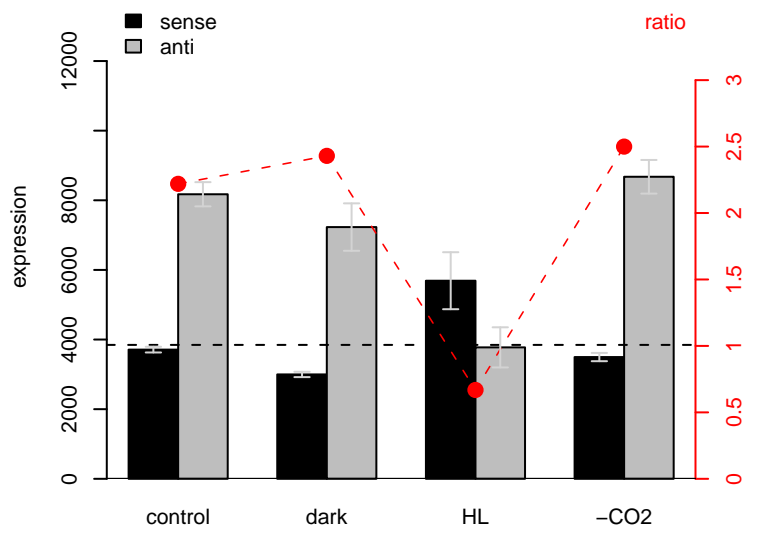
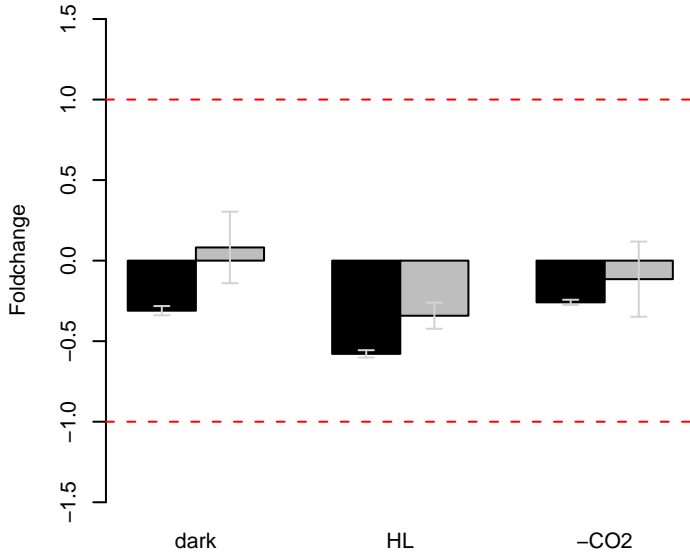
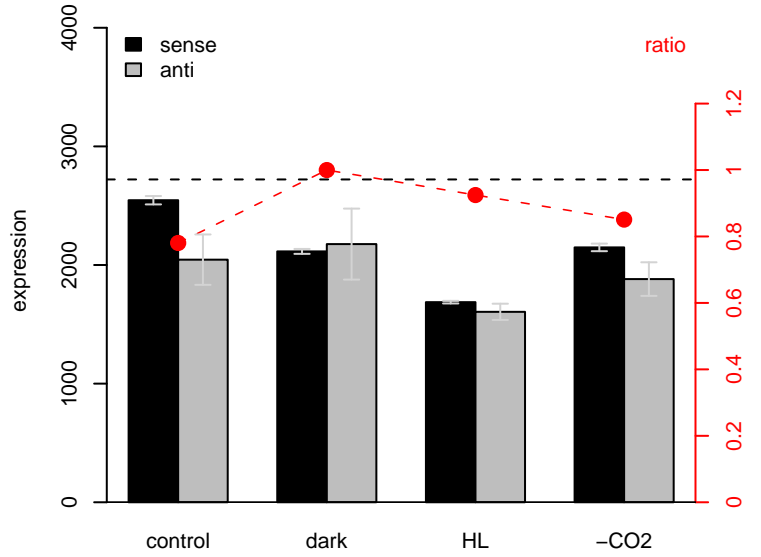
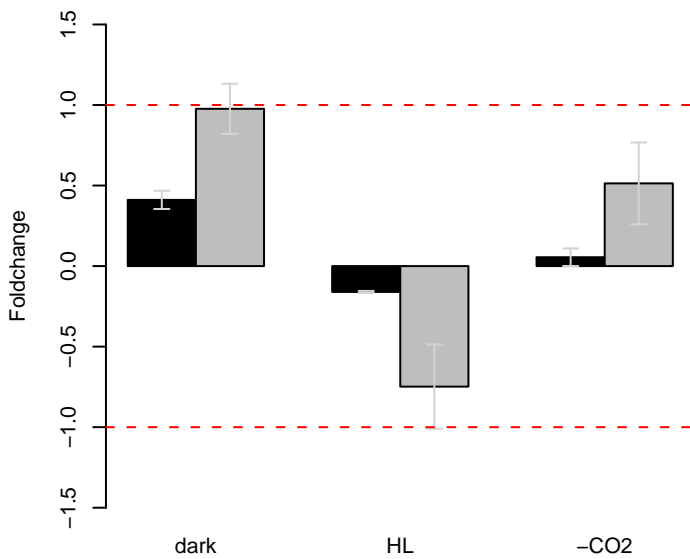
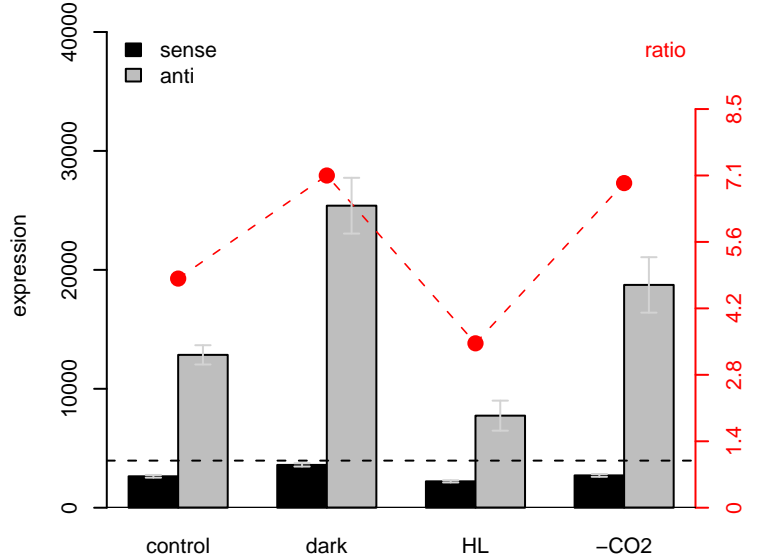


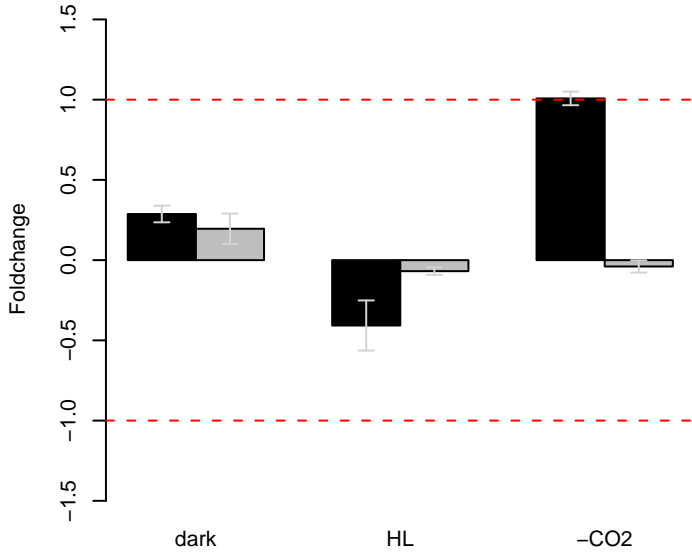
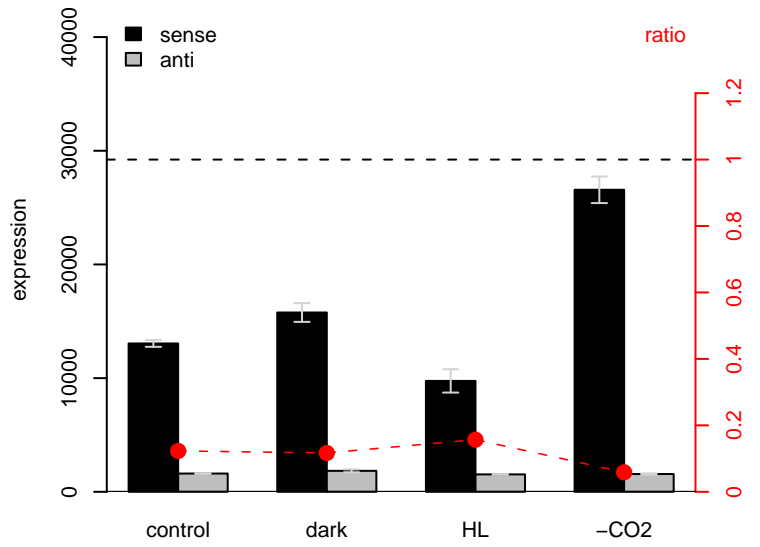
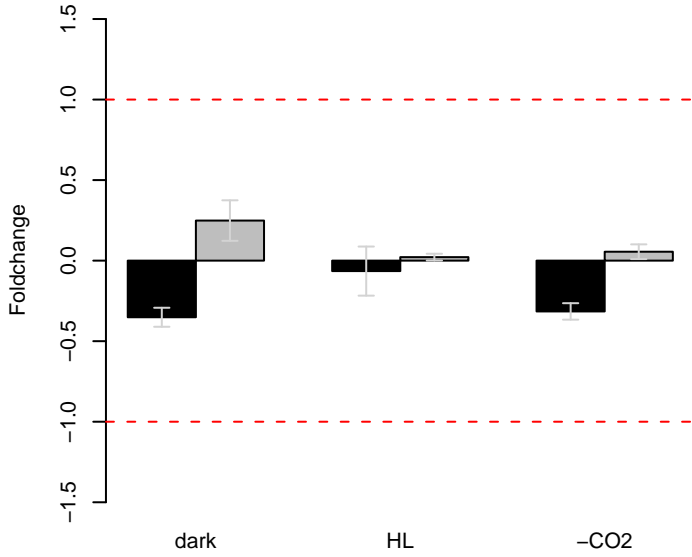
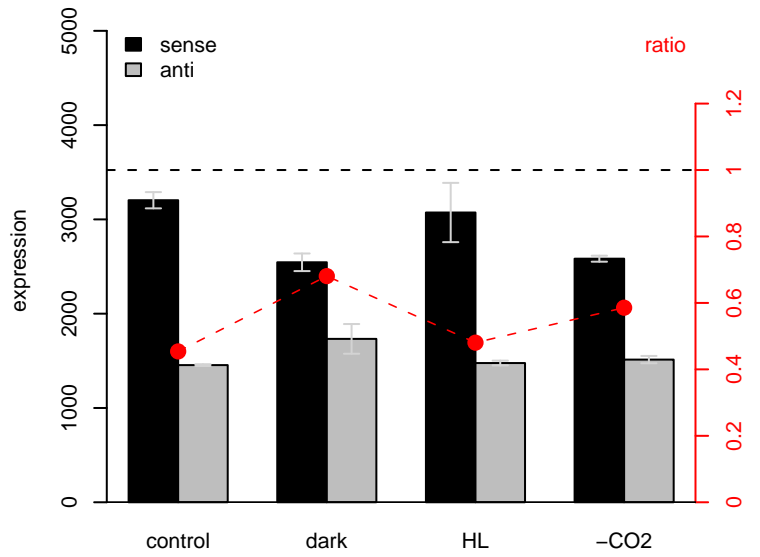
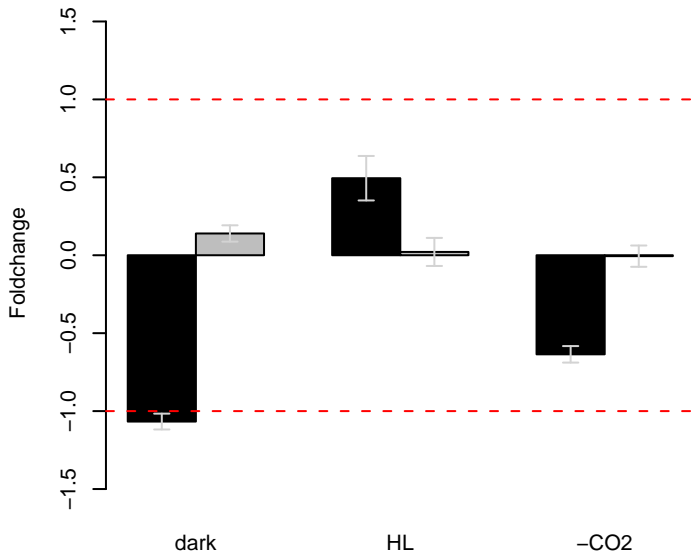
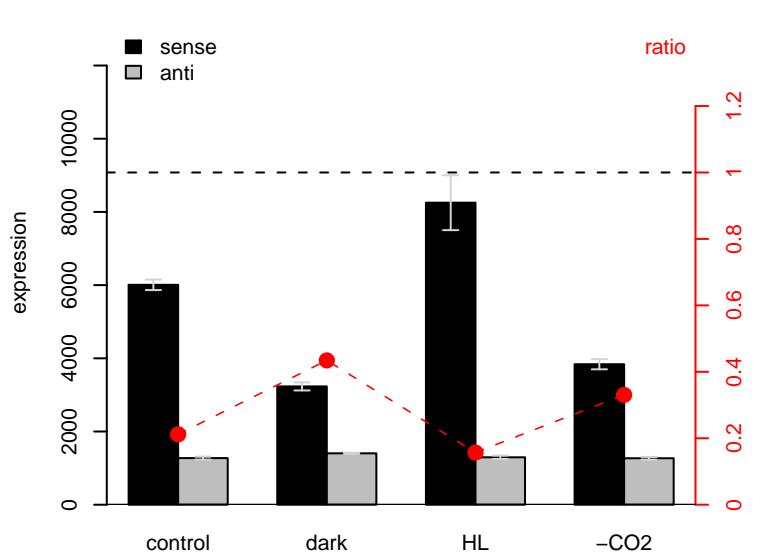
**slr0309**

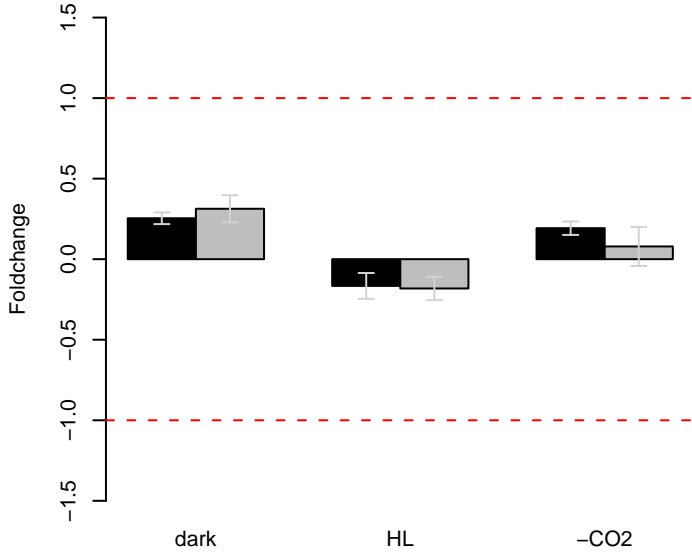
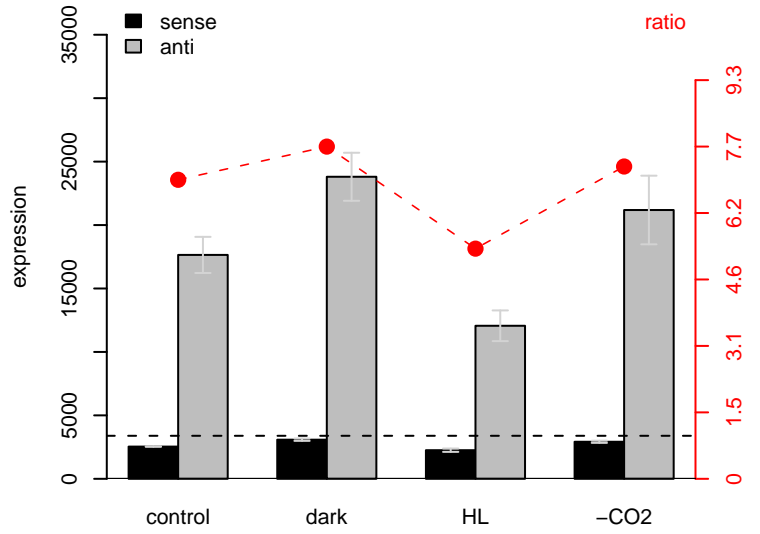
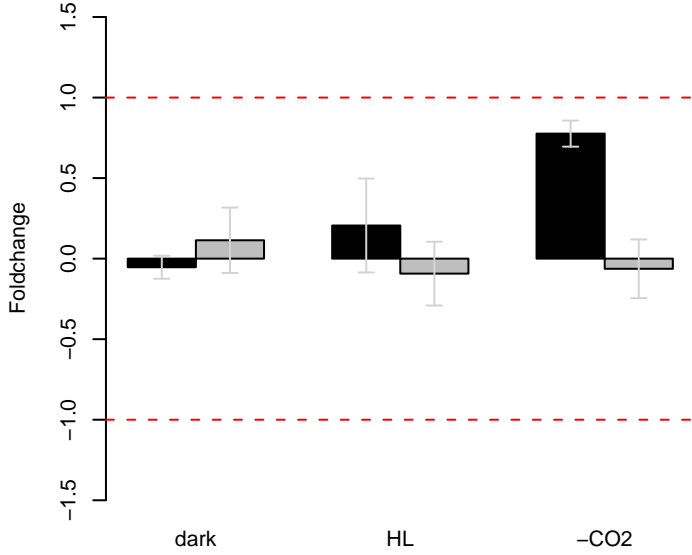
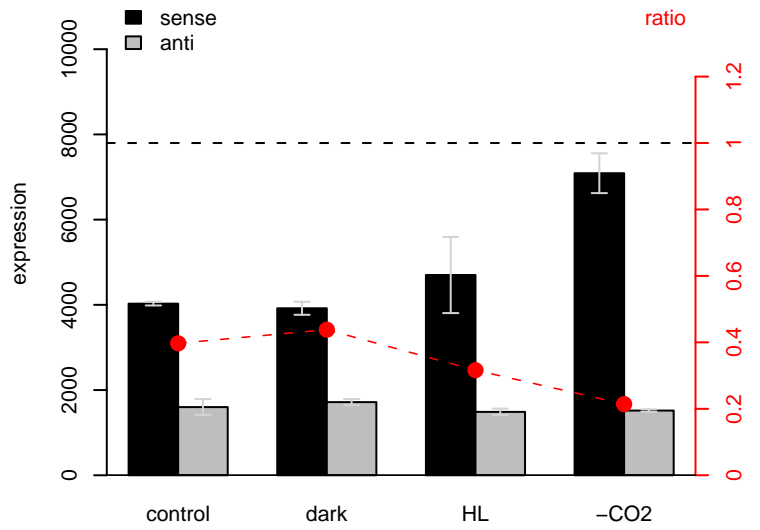
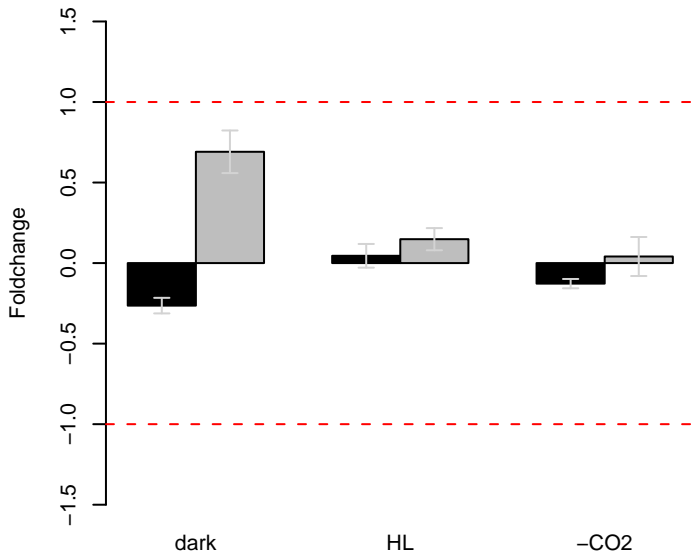
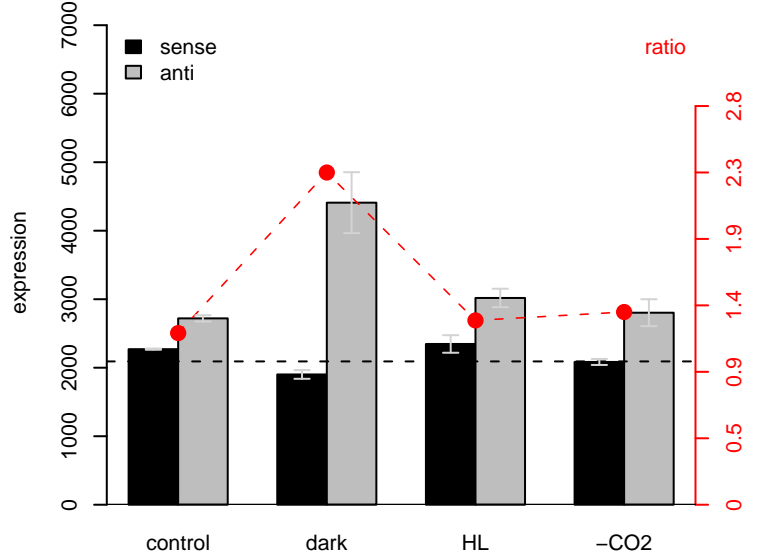


**genome\_3507**

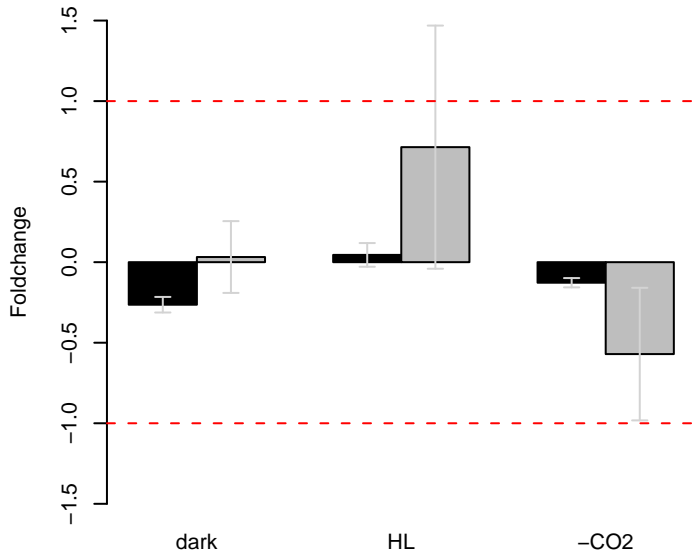
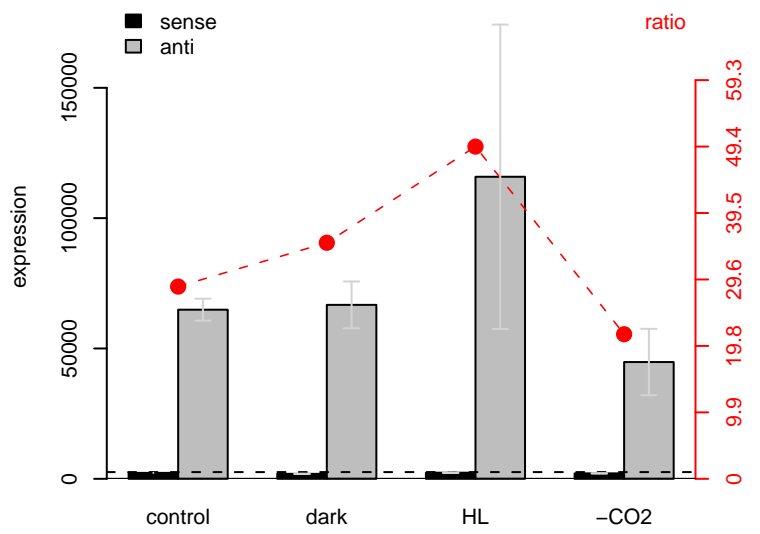
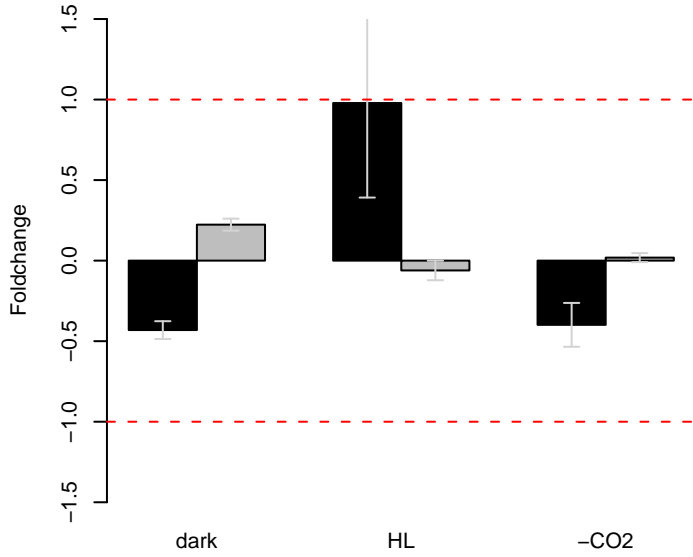
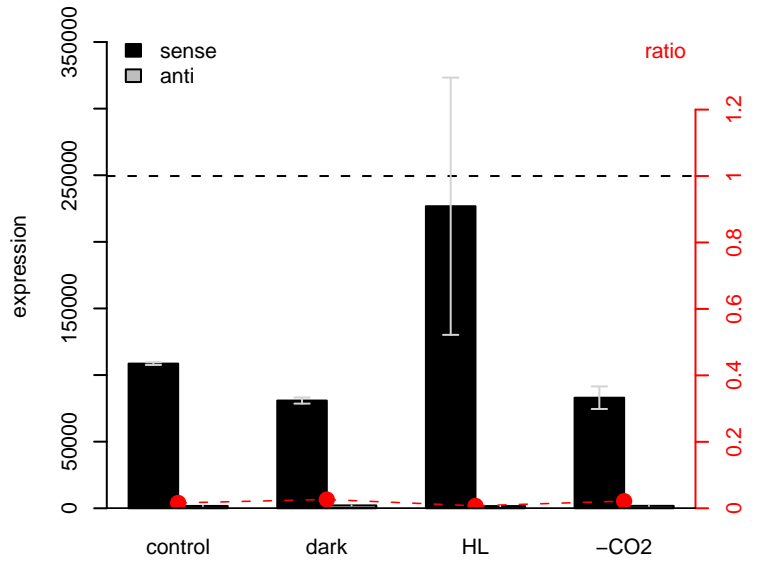
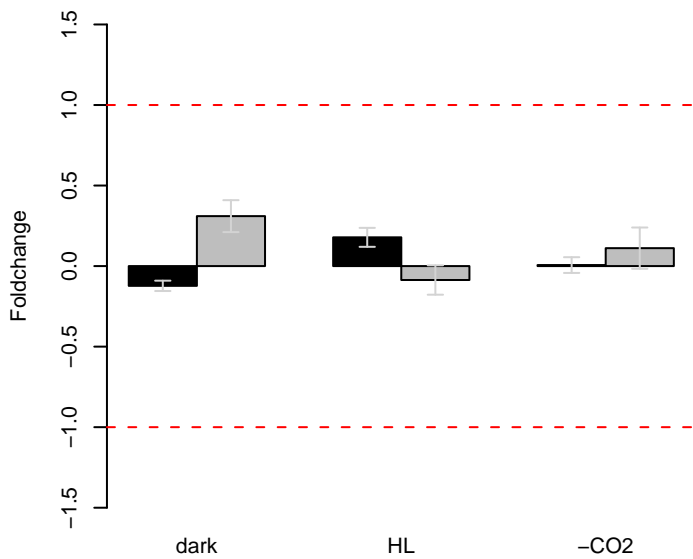
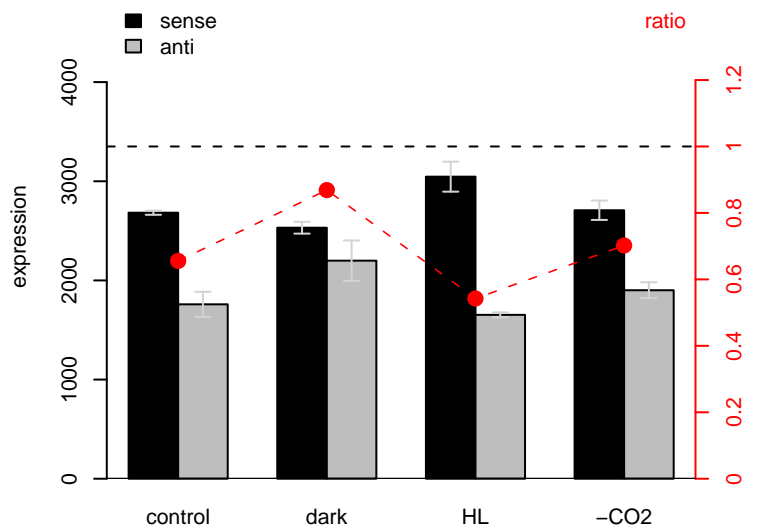


**slr1790****genome\_350****sli0023****genome\_3510****sli0021****genome\_3514**

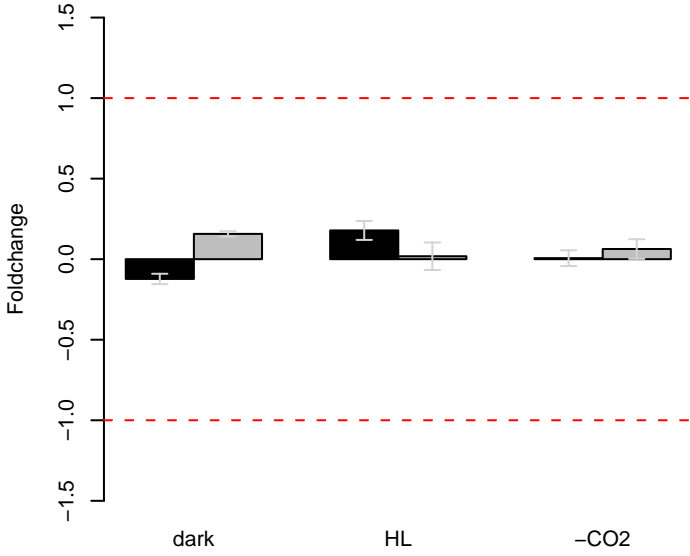
**clpC(sll0020)****genome\_3516****sll0019****genome\_3520****hemL(sll0017)****genome\_3525**

**mltA(sll0016)****genome\_3528****ctpA(slr0008)****genome\_3532****lpxB(slr0015)****genome\_3542**

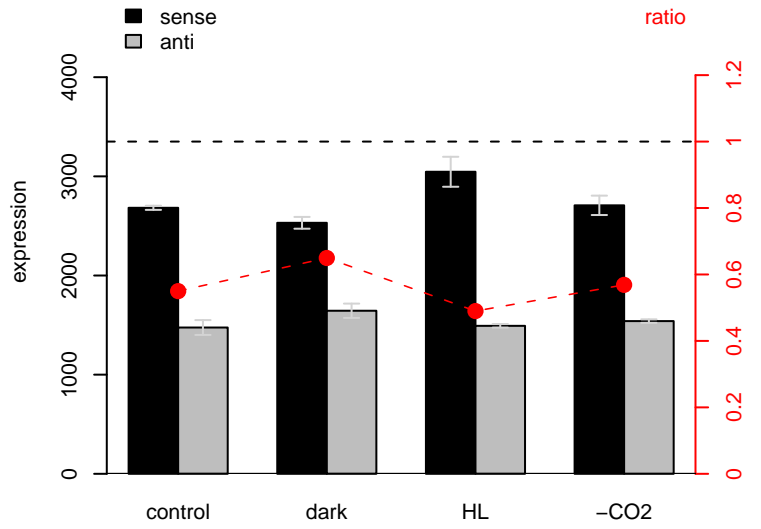


**lpxB(slr0015)****genome\_3542****petF(ssl0020)****genome\_3545****sll0007****genome\_3557**

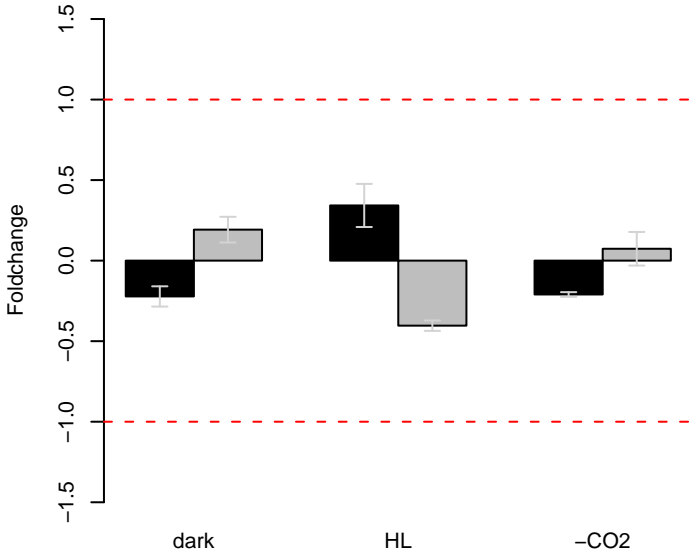
**sli0007**



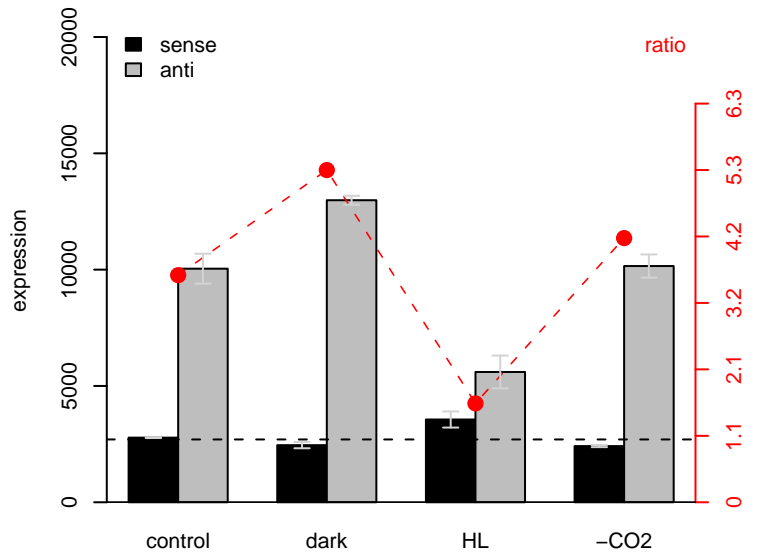
**genome\_3557**



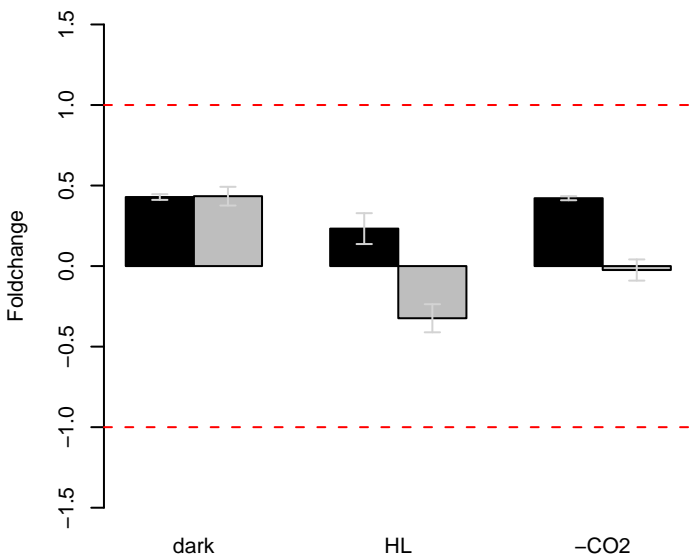
**aspC(sli0006)**



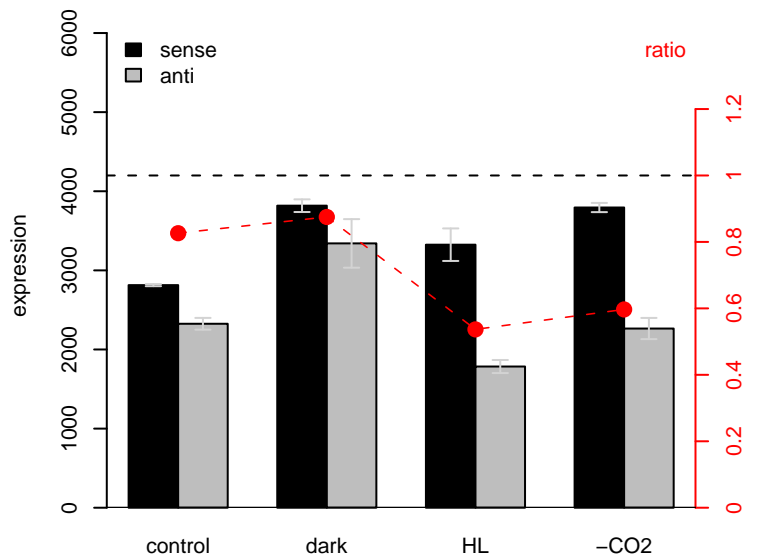
**genome\_3560**



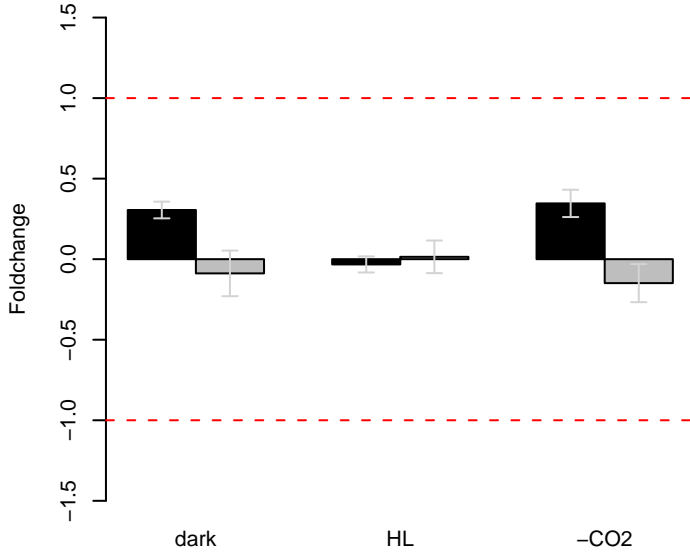
**sli0005**



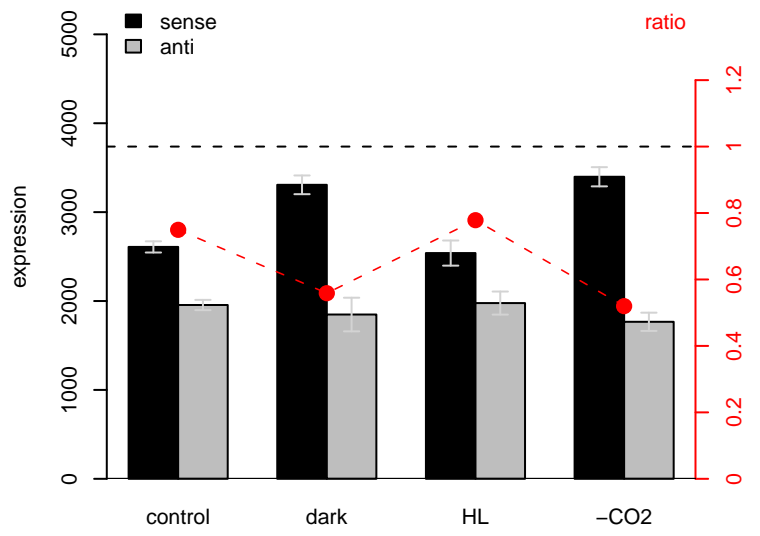
**genome\_3562**



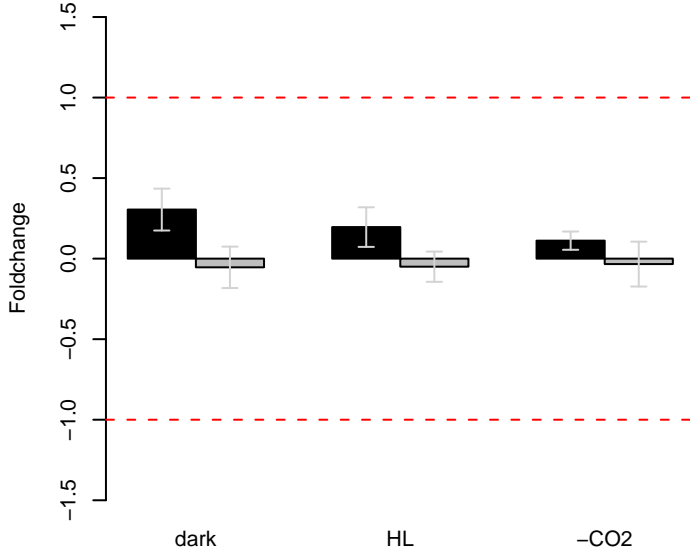
**ponA(sll0002)**



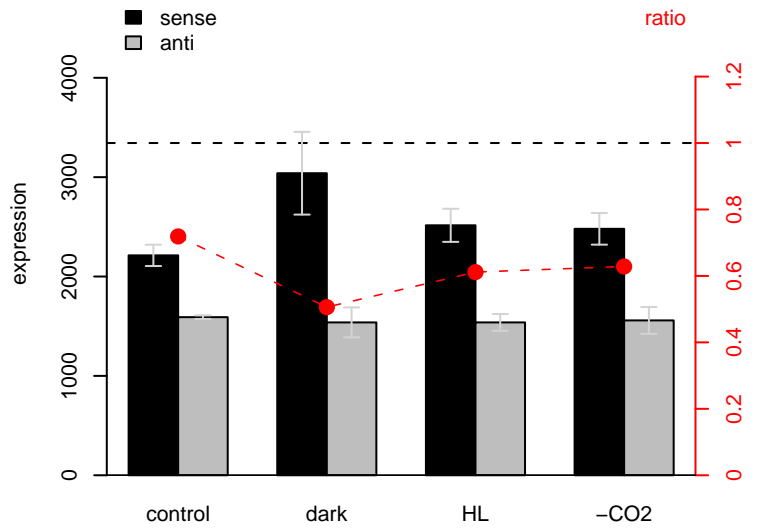
**genome\_3566**



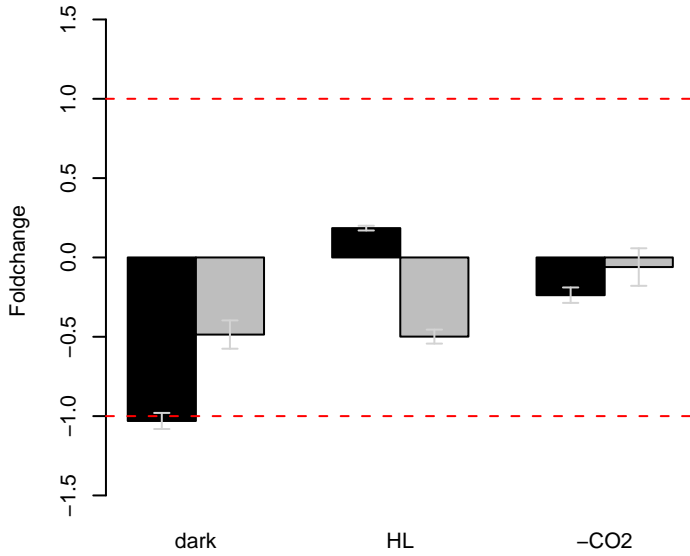
**aroK(sll1669)**



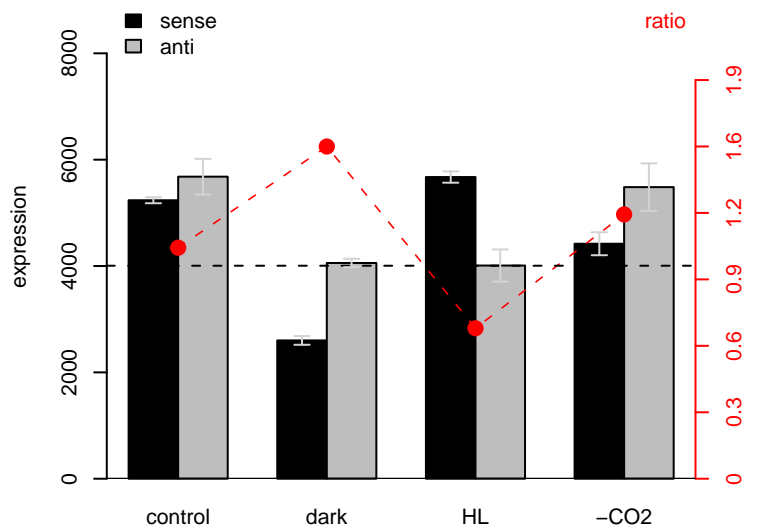
**genome\_356**

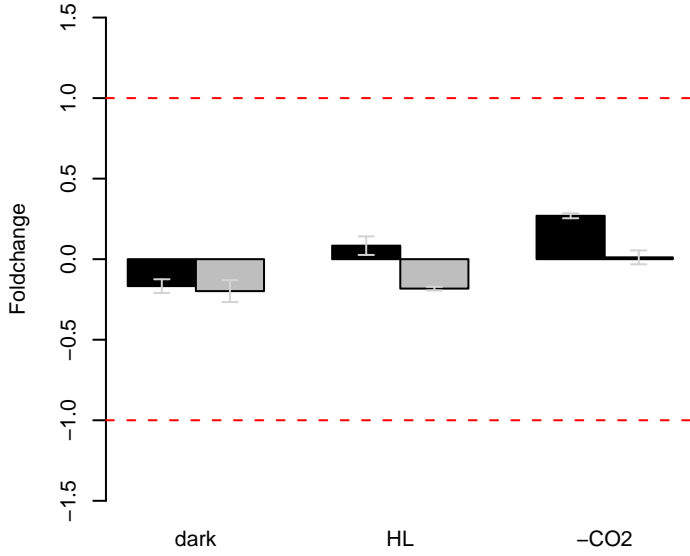
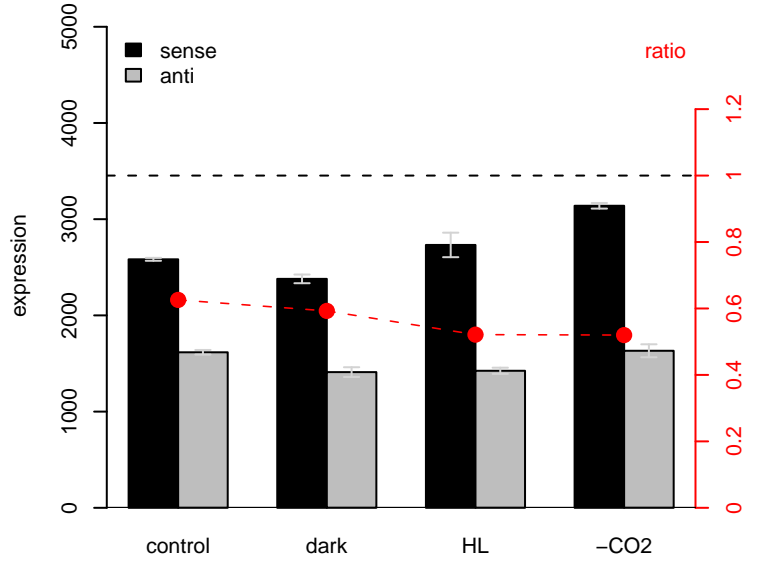
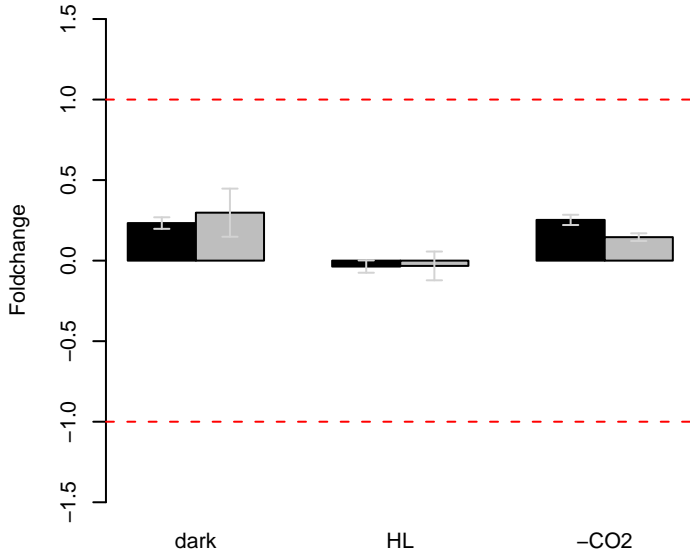
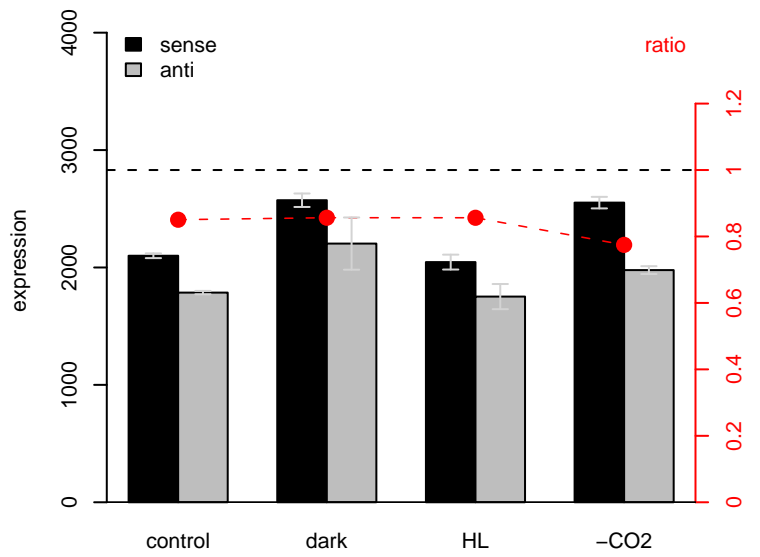
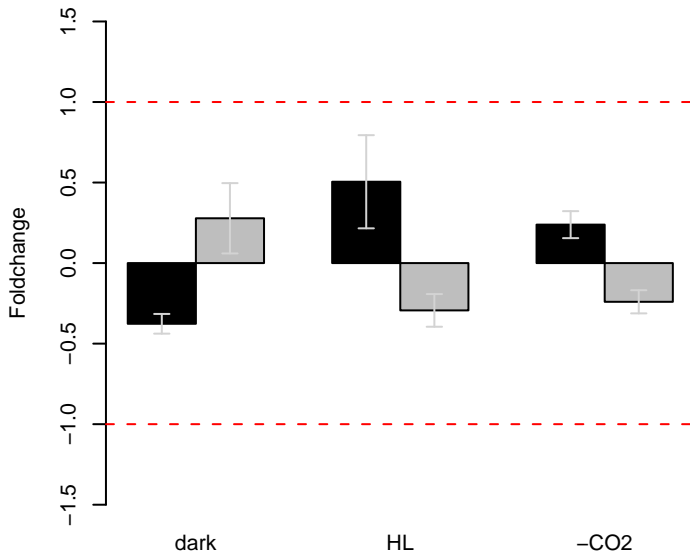
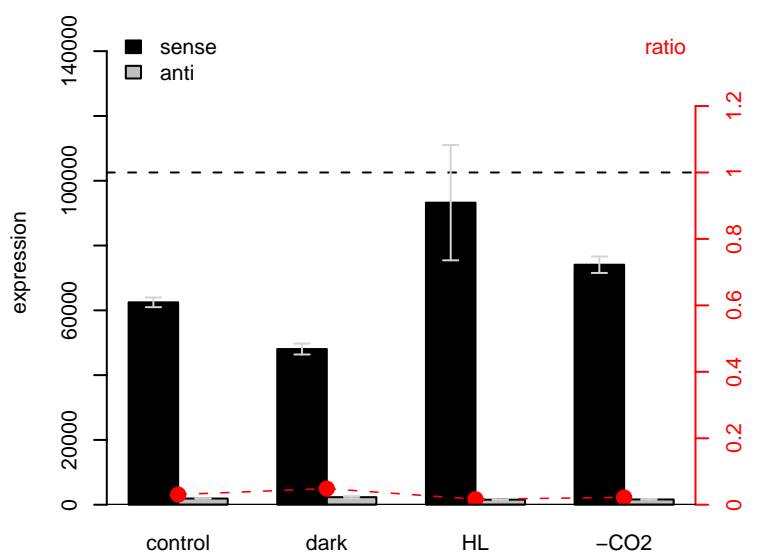


**guaA(slr0213)**

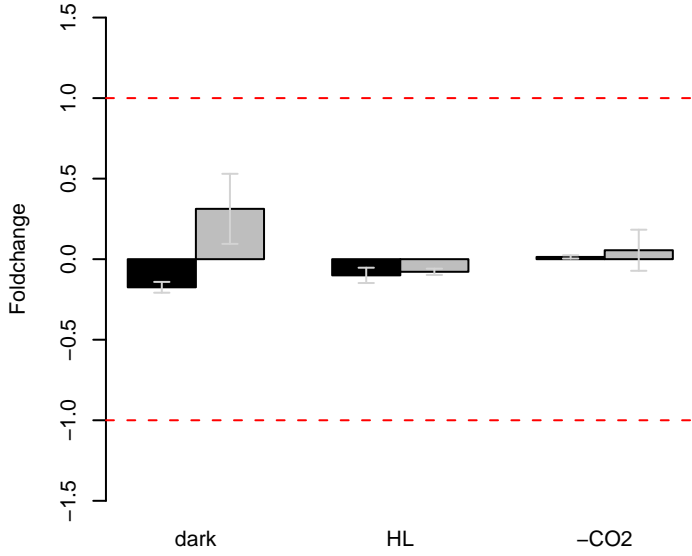


**genome\_3569**

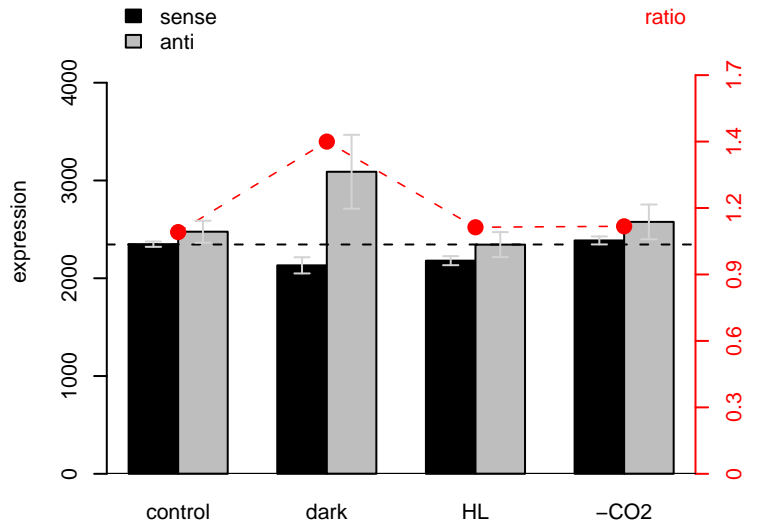


**gidA(sll0204)****genome\_3585****slr0222****genome\_3588****petE(sll0199)****genome\_3595**

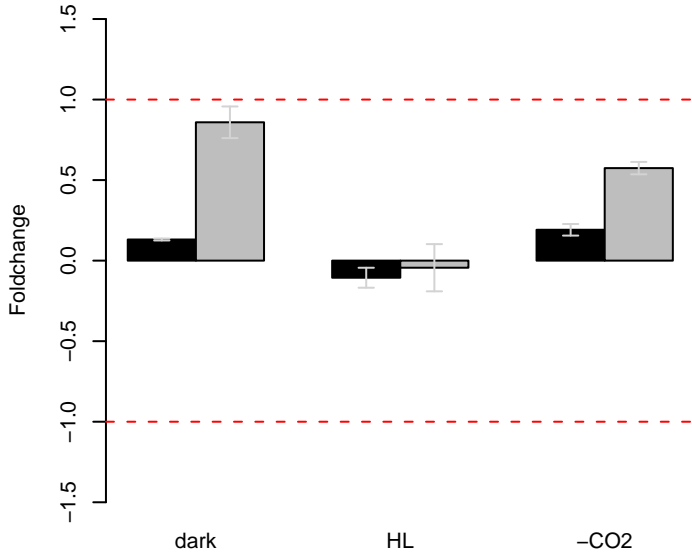
**mmsB(slr0229)**



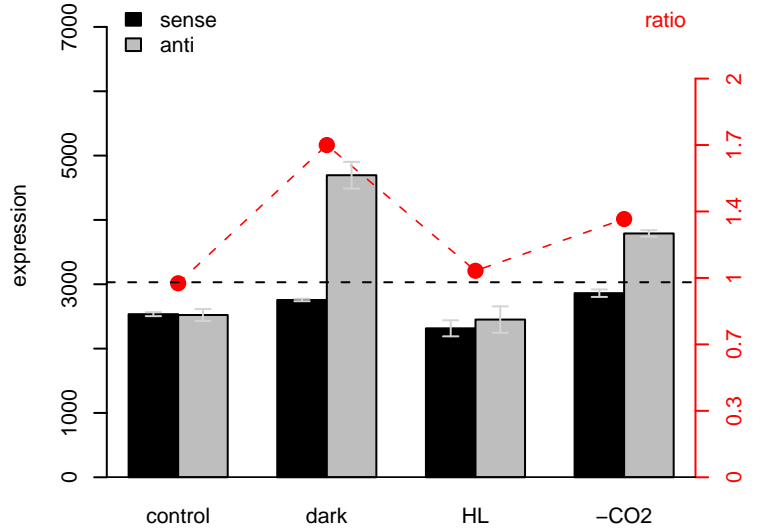
**genome\_3607**



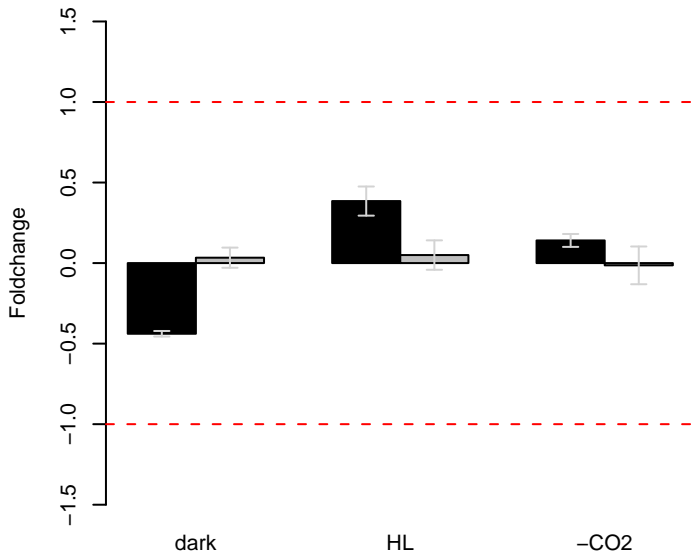
**slI0191**



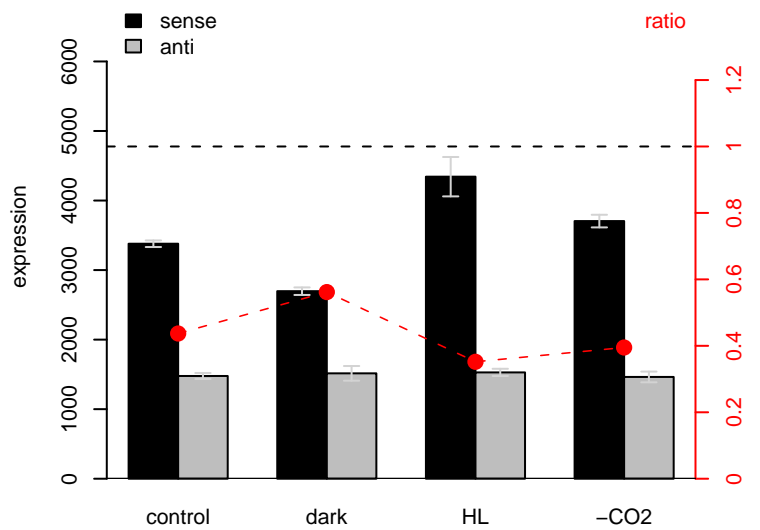
**genome\_3614**

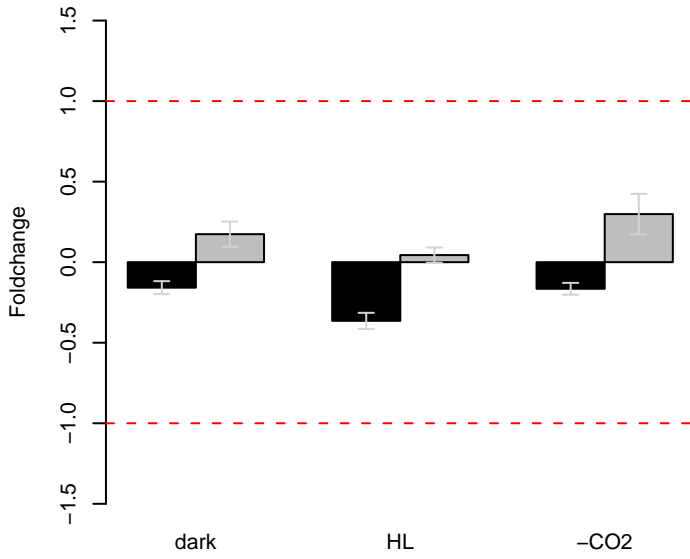
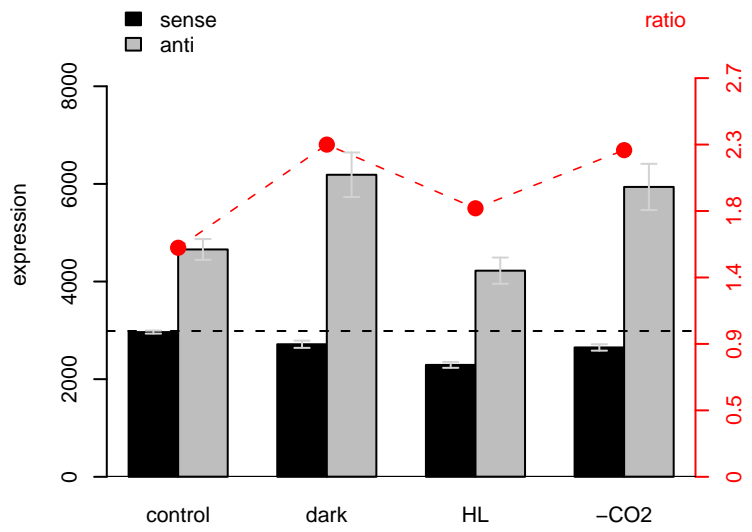
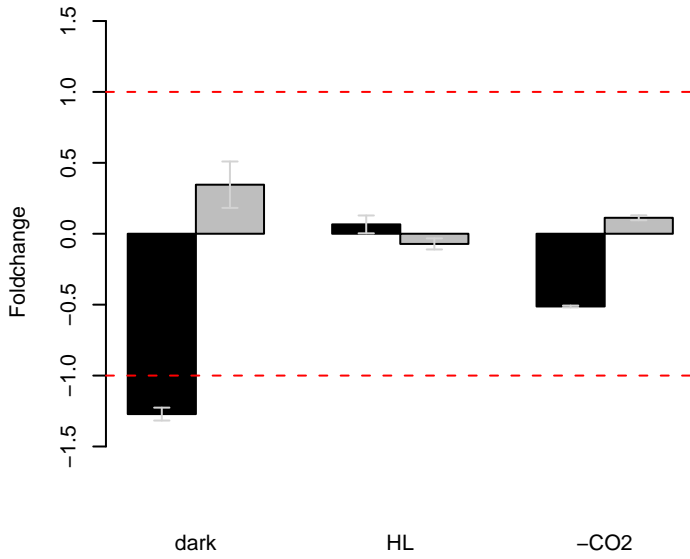
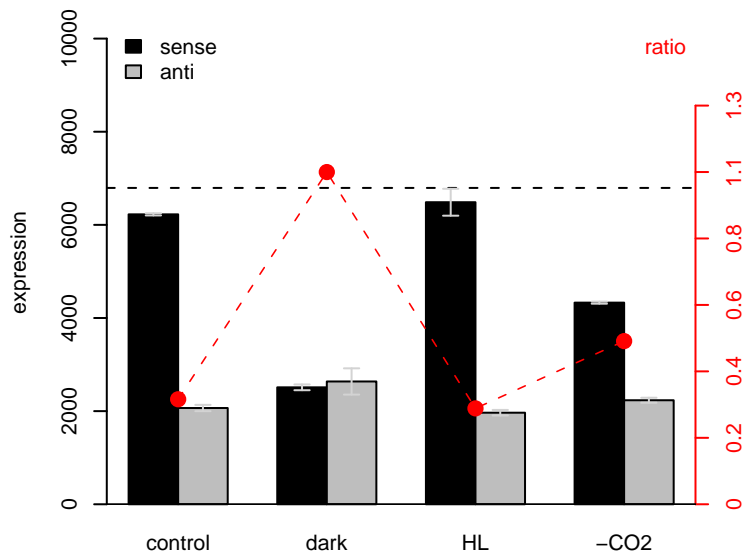
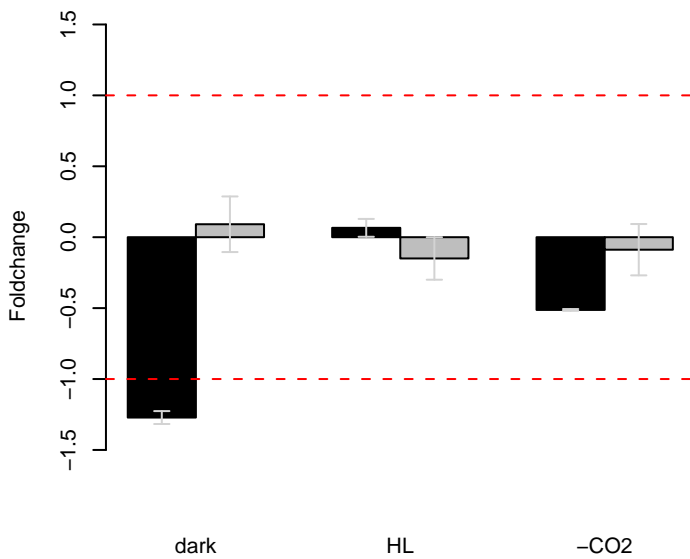
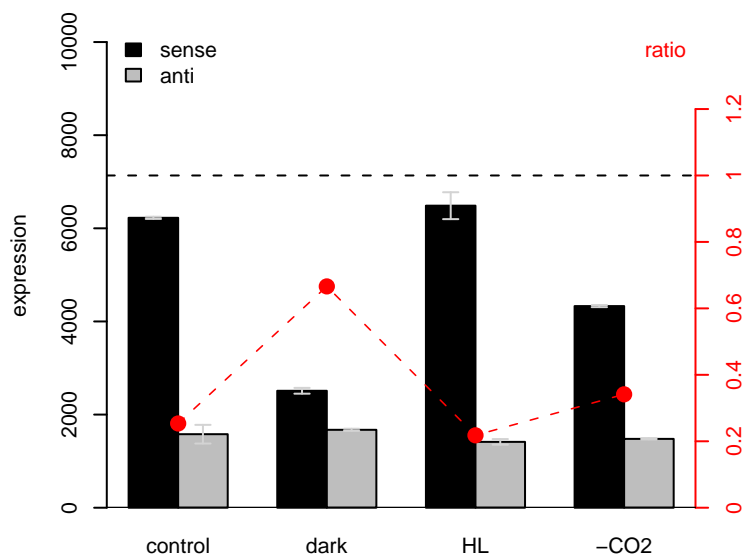


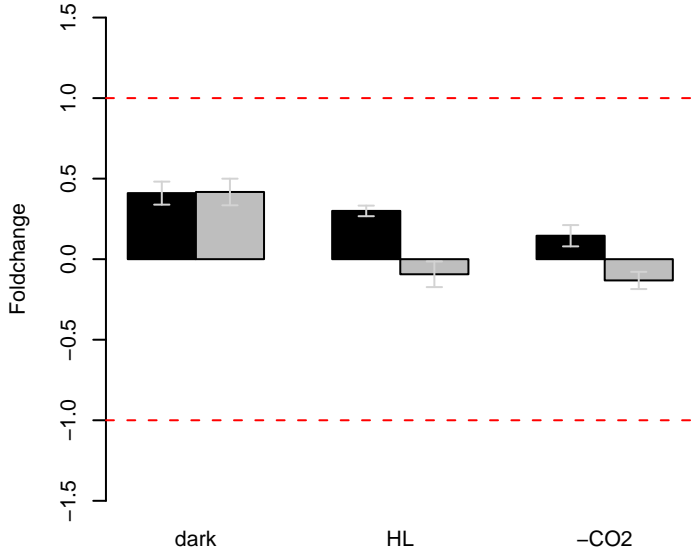
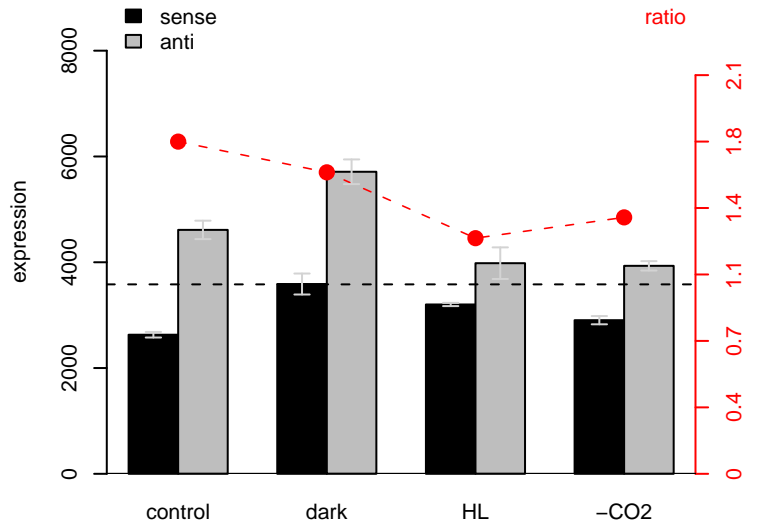
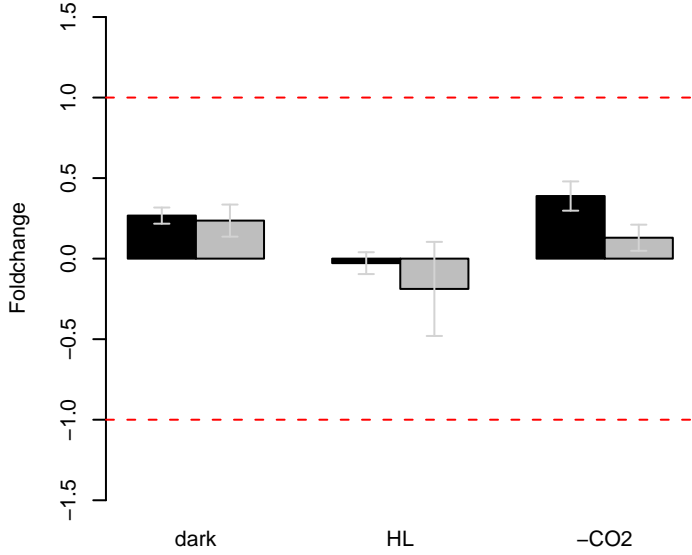
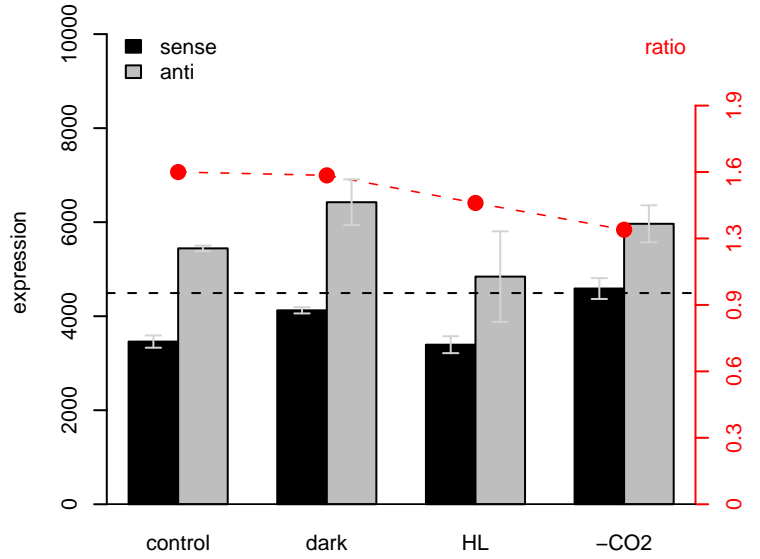
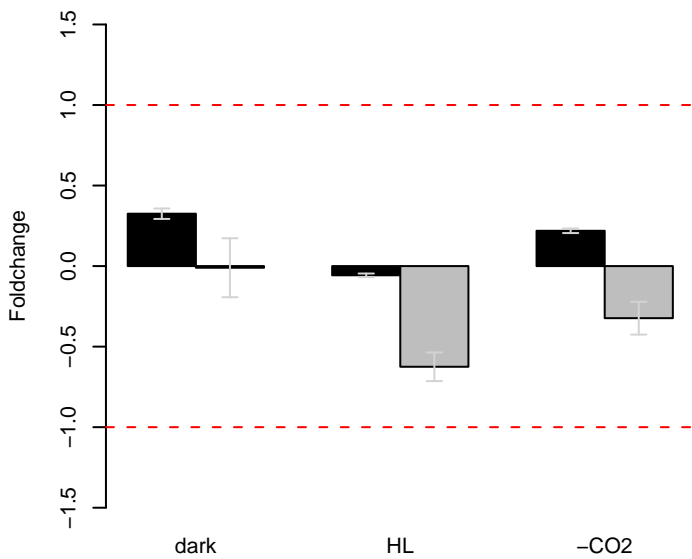
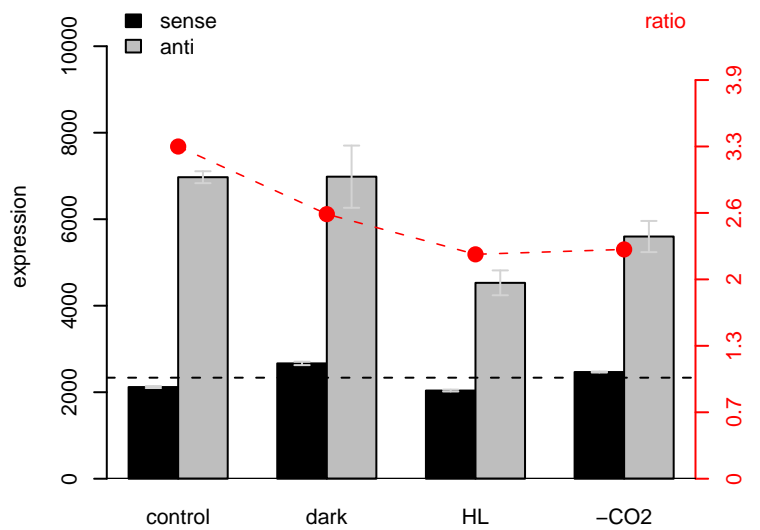
**msrA(slr1795)**

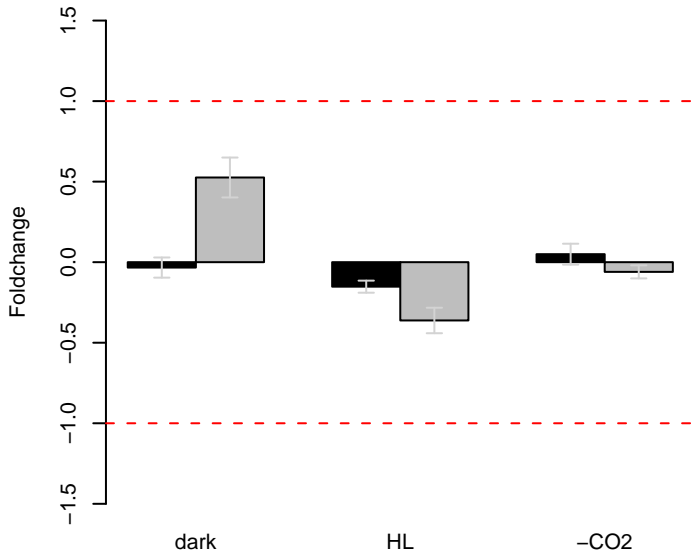
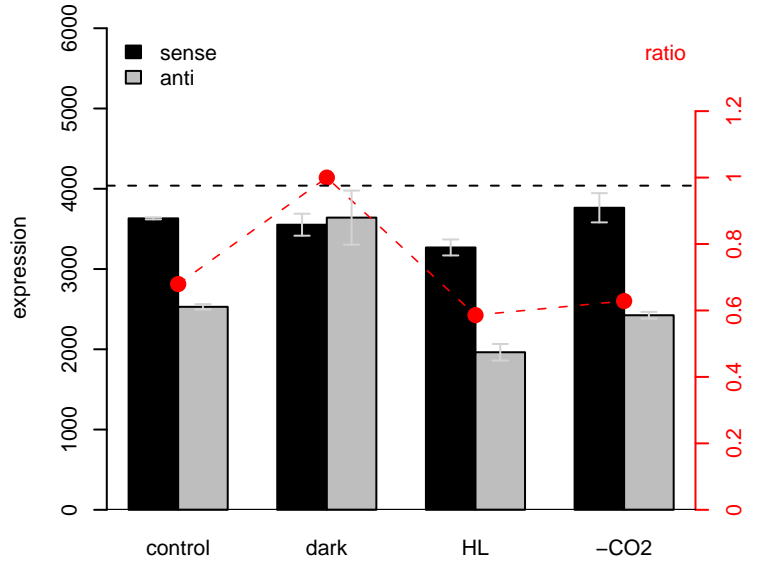
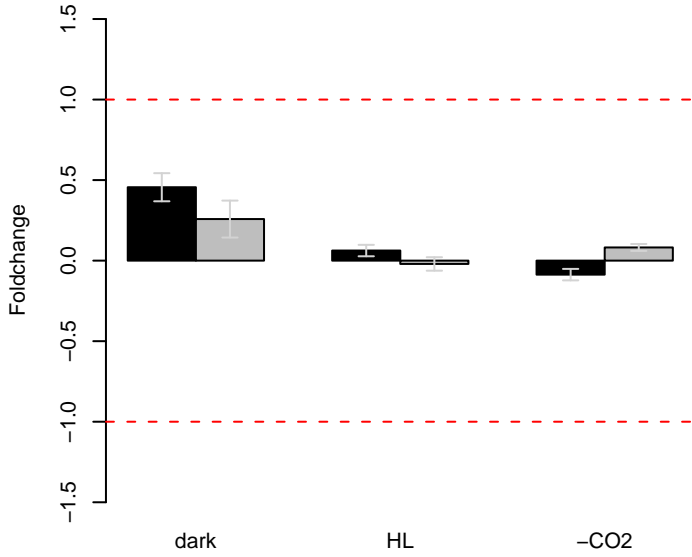
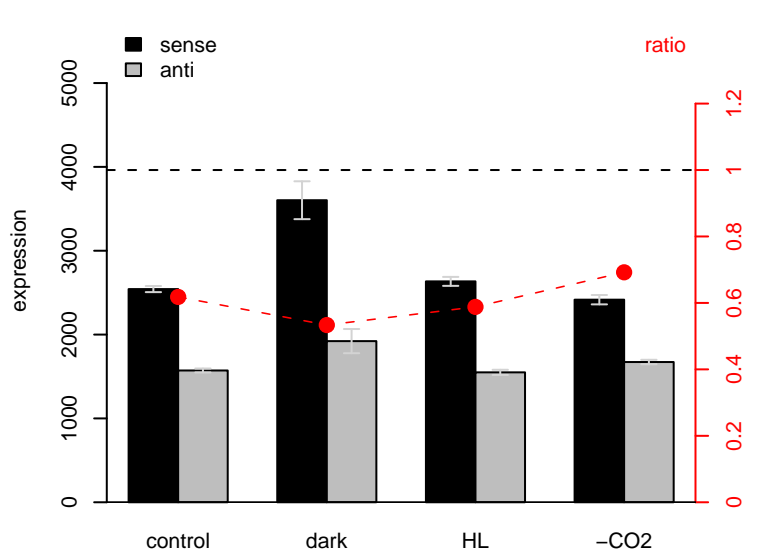
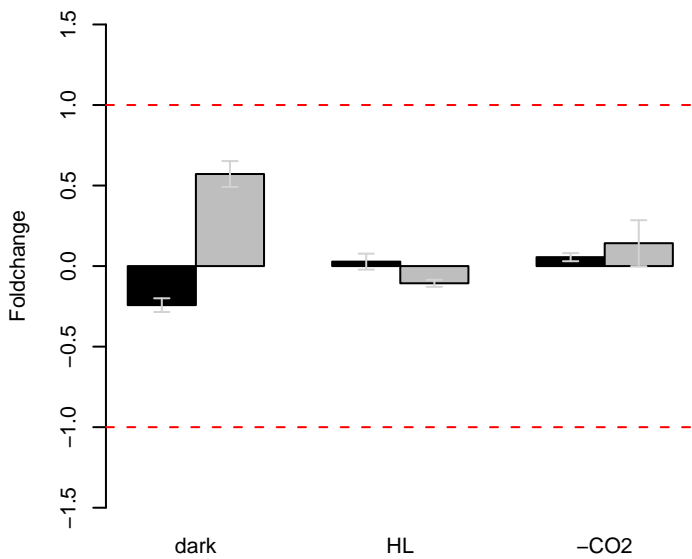
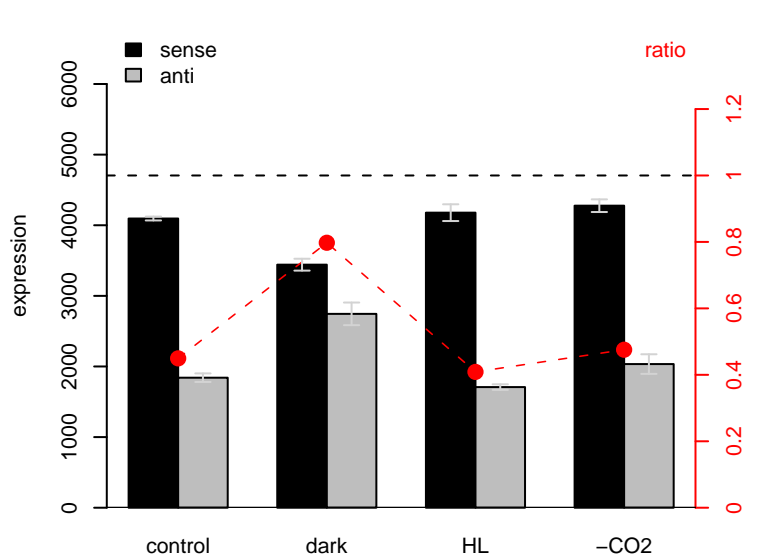


**genome\_361**

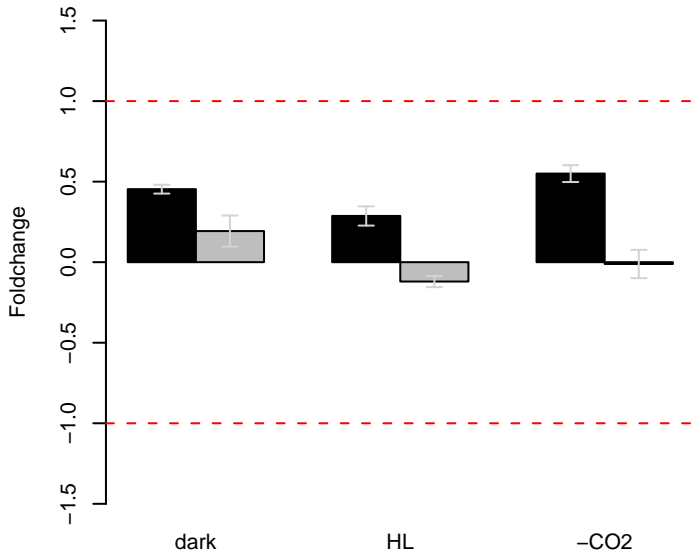
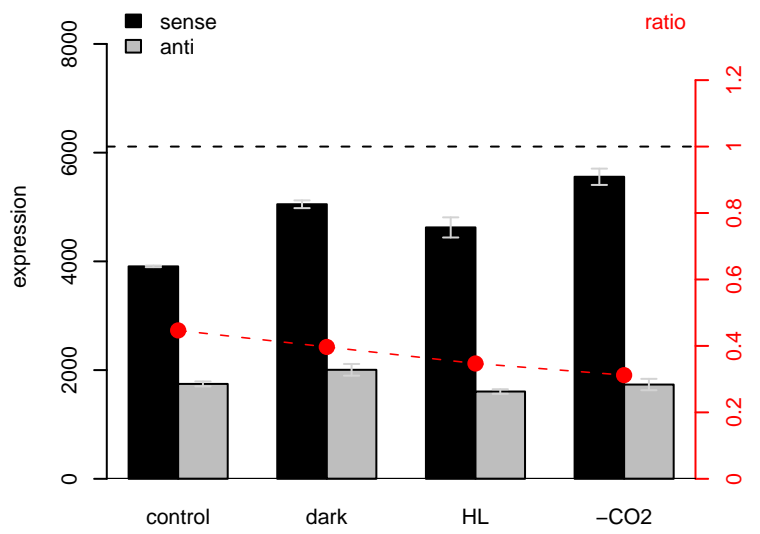
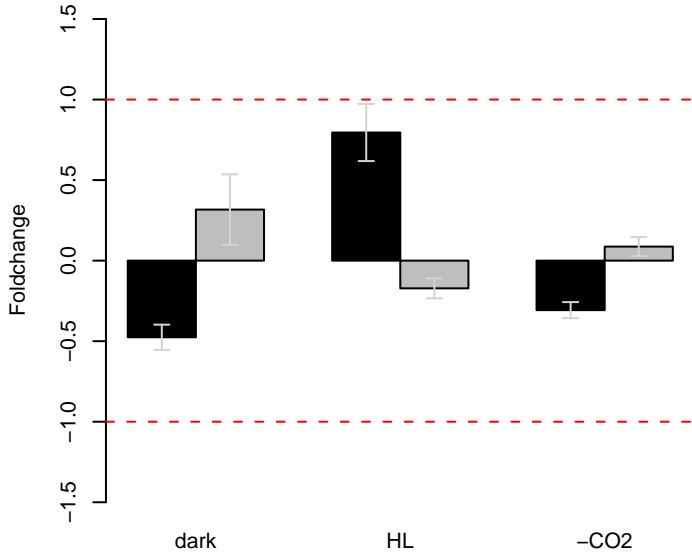
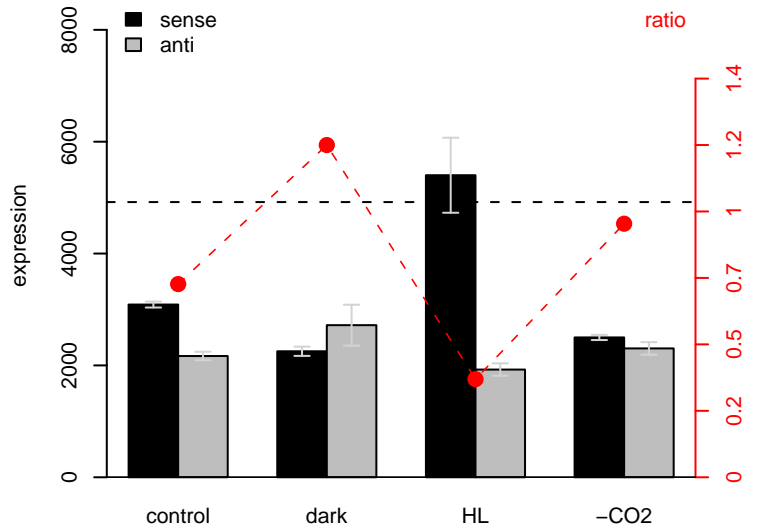
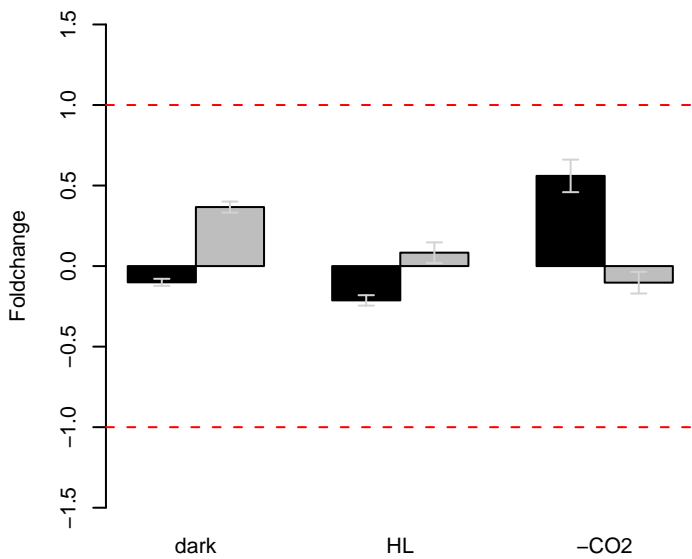
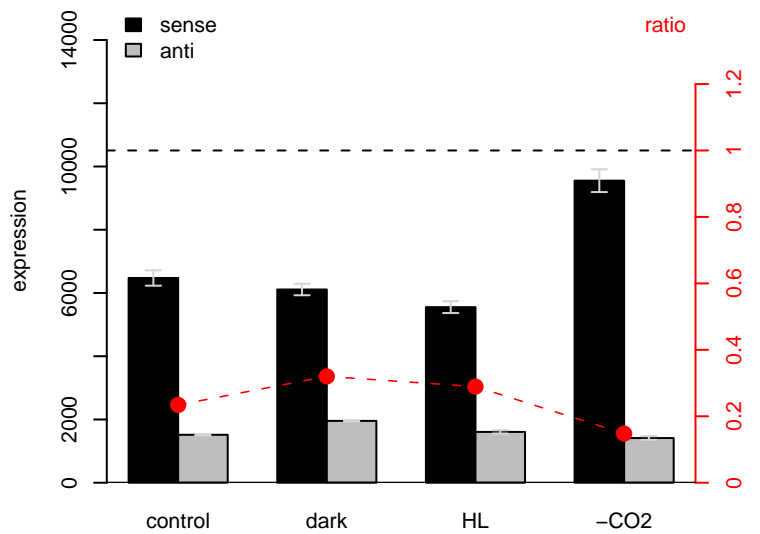


**slr0431****genome\_3622****sli0408****genome\_3631****sli0408****genome\_3631**

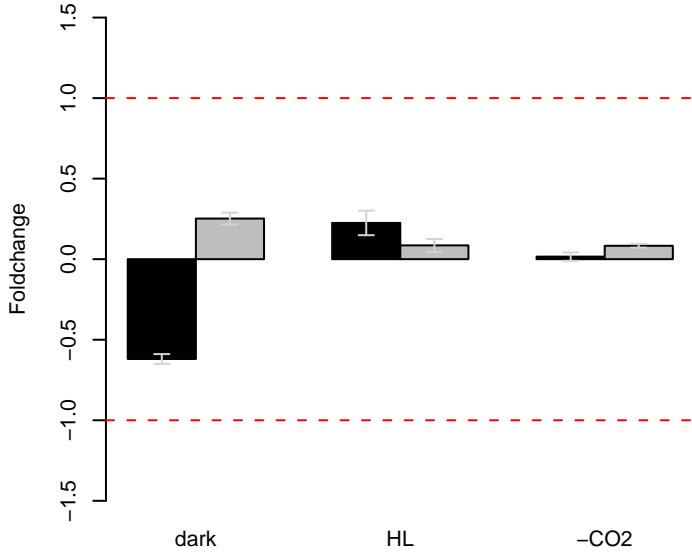
**sII0406****genome\_3637****gltA(sII0401)****genome\_3651****slr0440****genome\_3654**

**slr0049****genome\_3656****purU(sll0070)****genome\_3662****sll0068****genome\_3666**

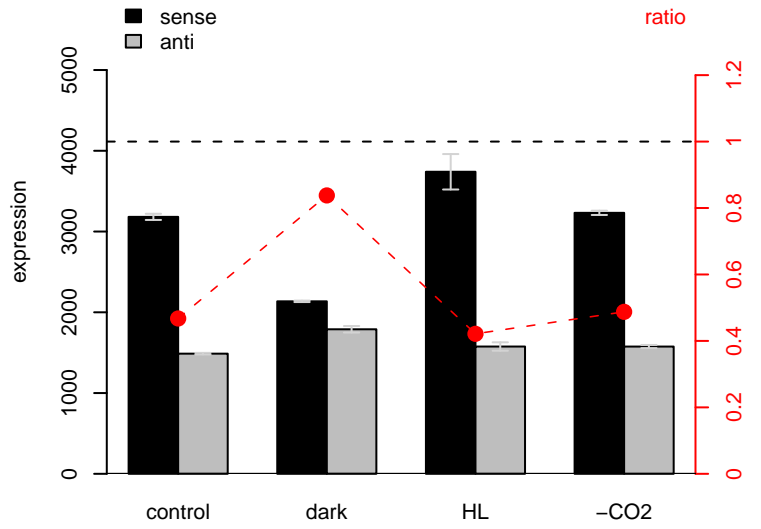


**slr0053****genome\_3672****chlG(slr0056)****genome\_3676****slr0058****genome\_3681**

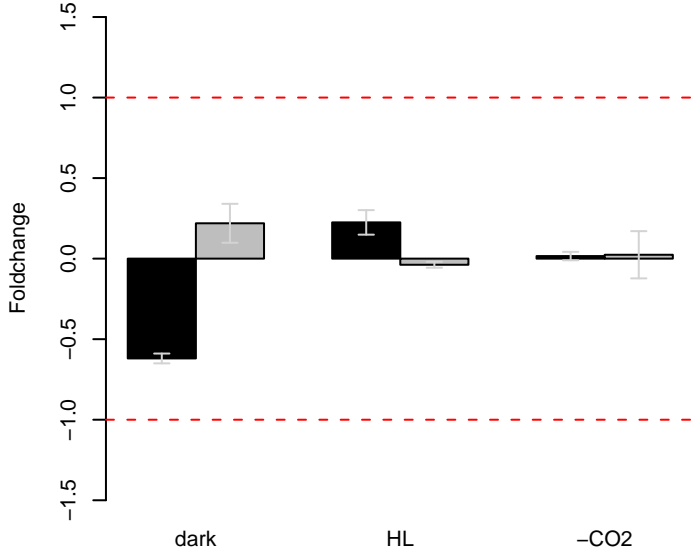
**dnaK(sll0058)**



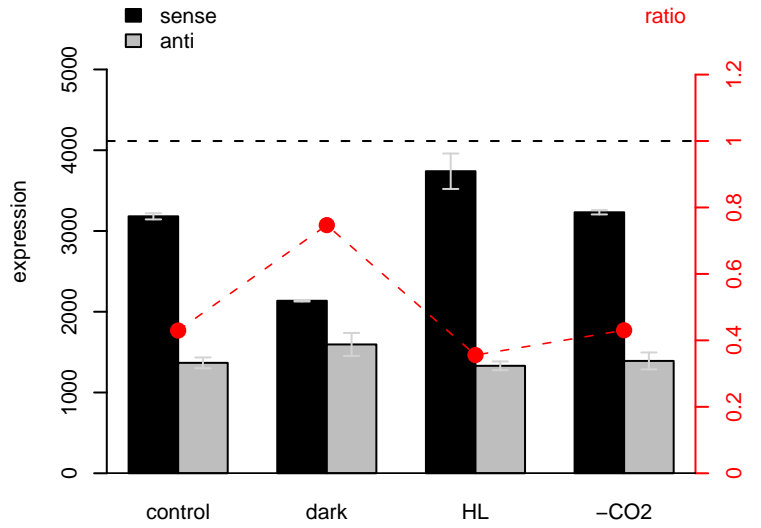
**genome\_3688**



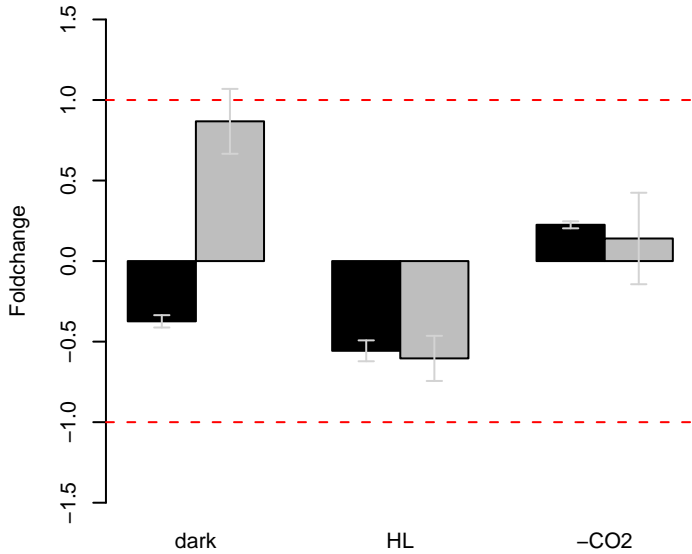
**dnaK(sll0058)**



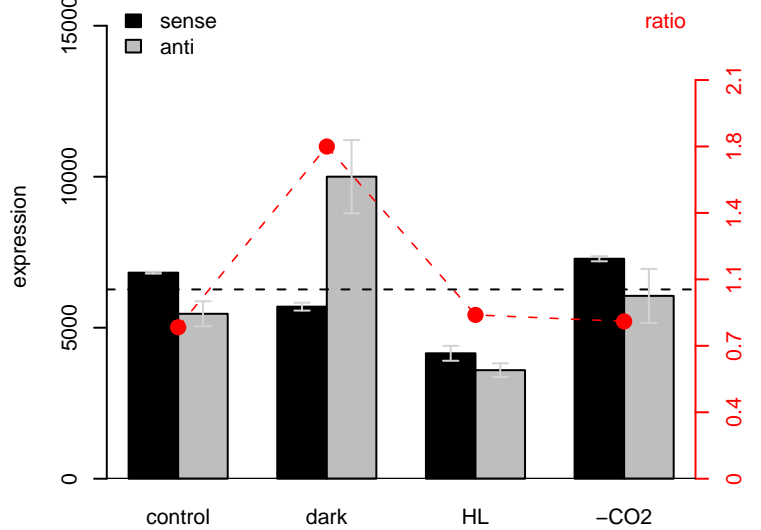
**genome\_3688**

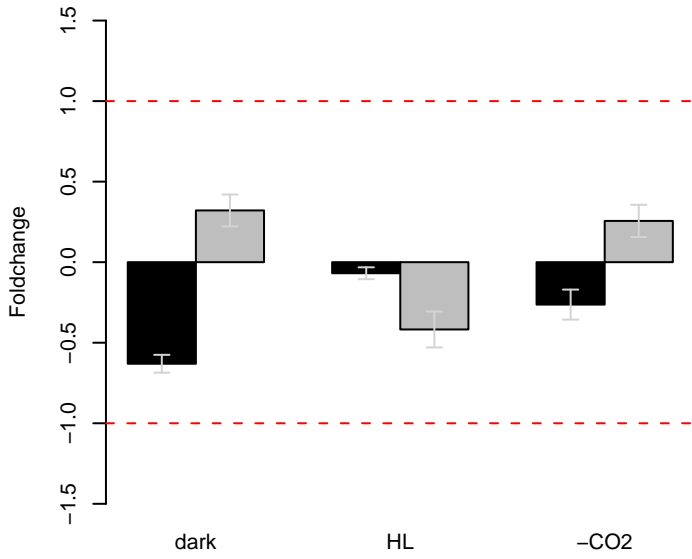
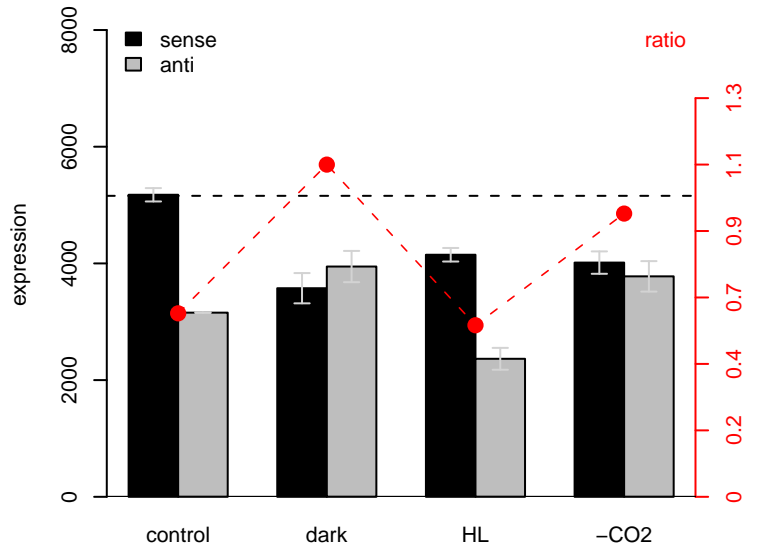
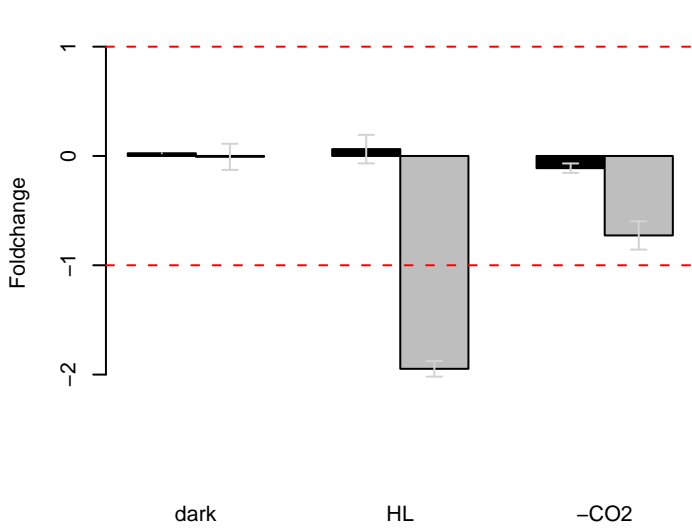
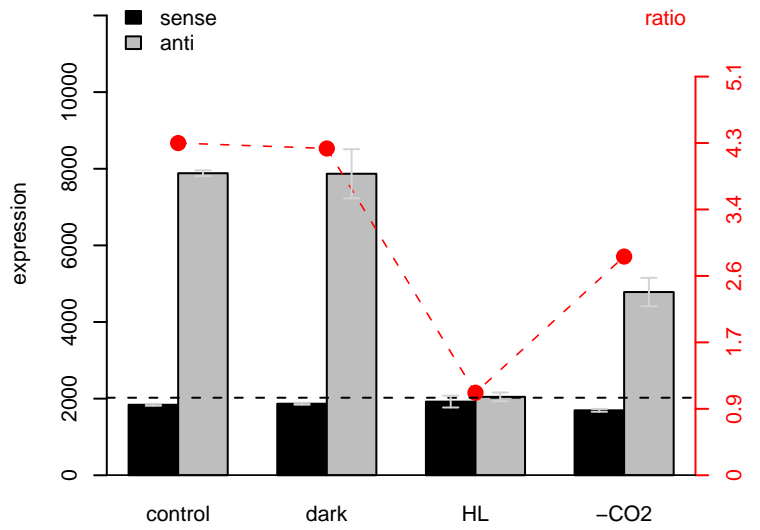
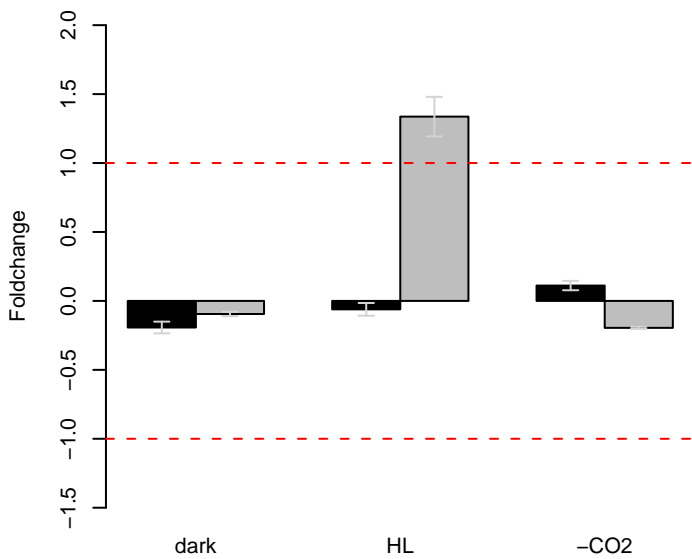
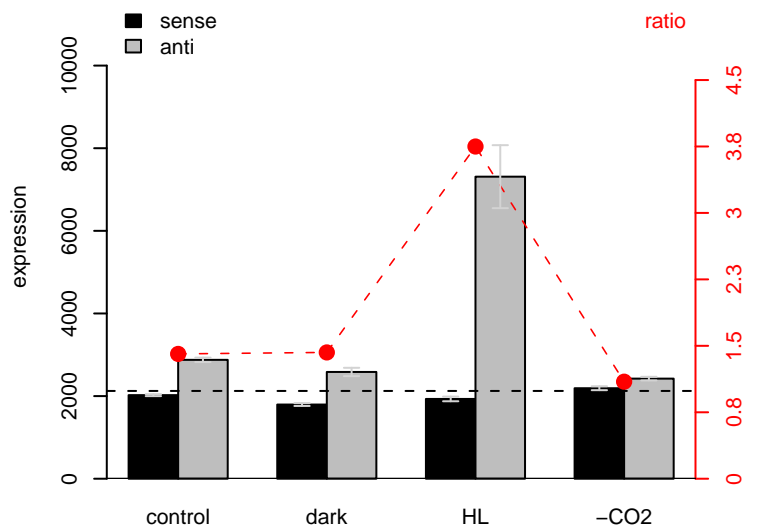


**gspE(slr0063)**

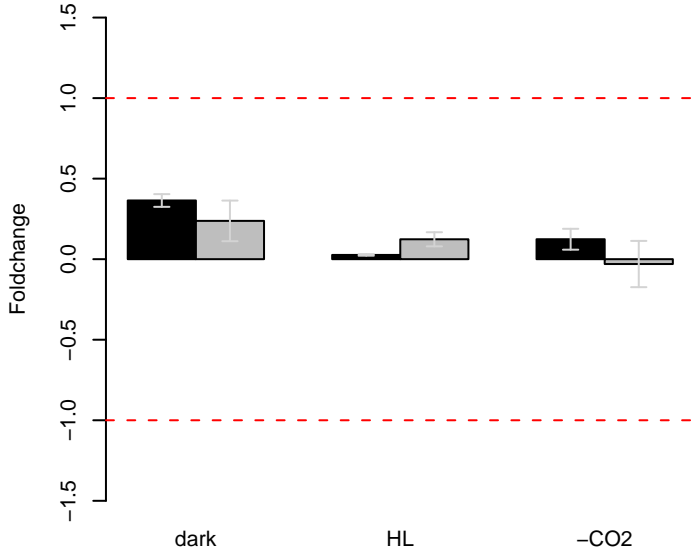


**genome\_3692**

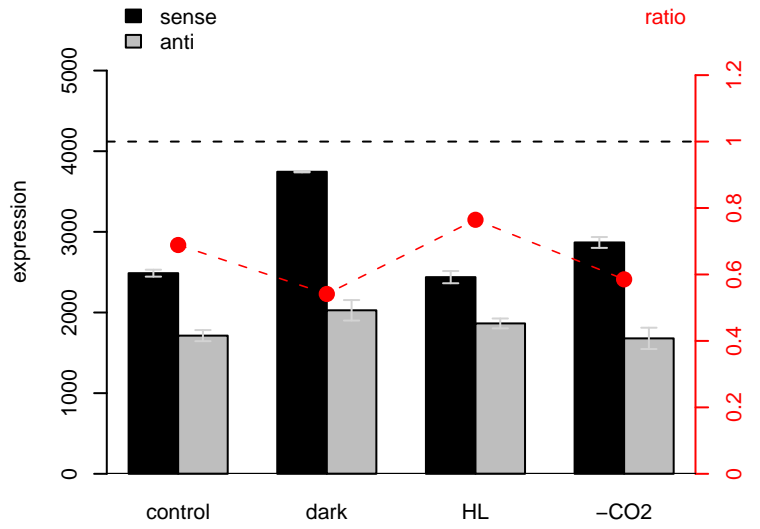


**sll1664****genome\_369****slr0069****genome\_3702****sll0462****genome\_3711**

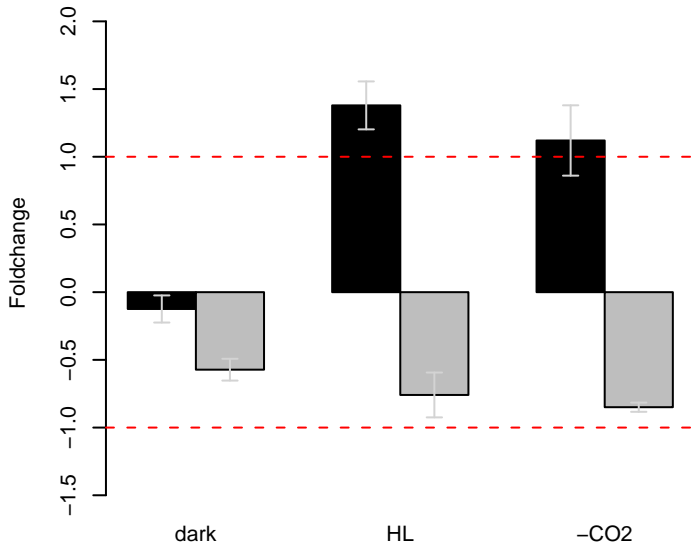
**uvrB(sll0459)**



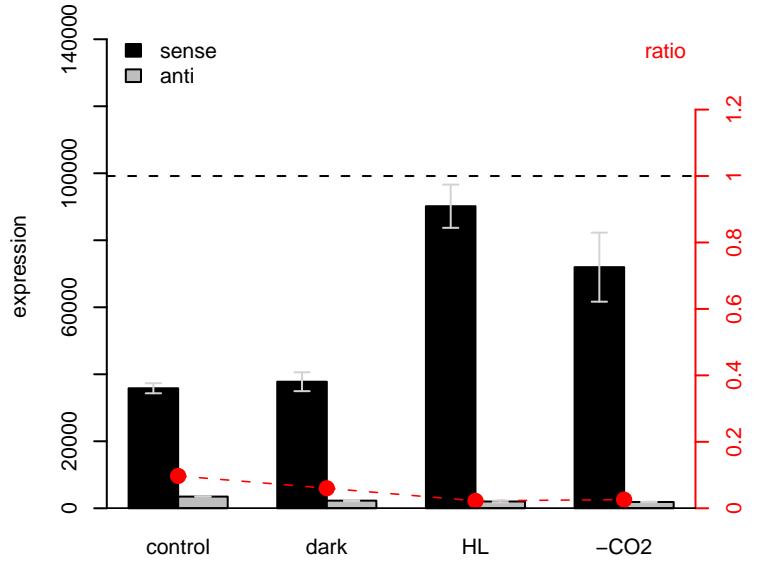
**genome\_3717**



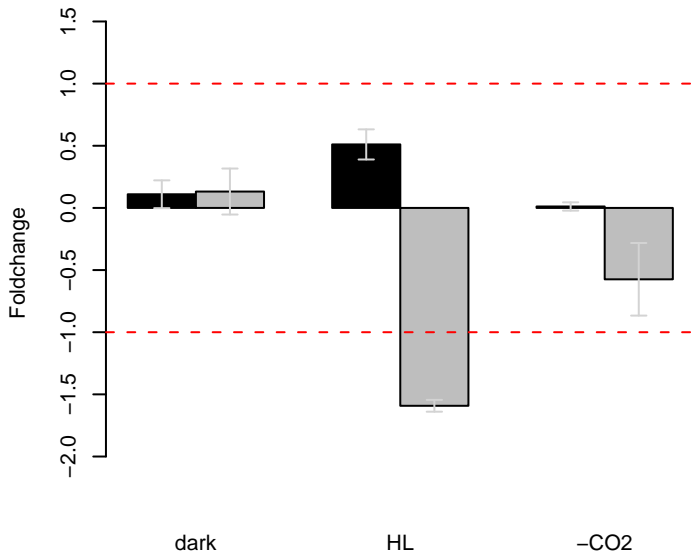
**slr0476**



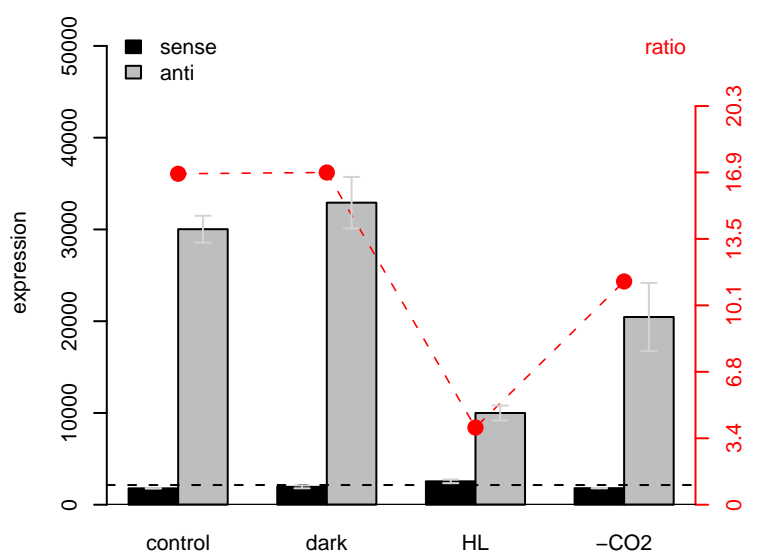
**genome\_3719**



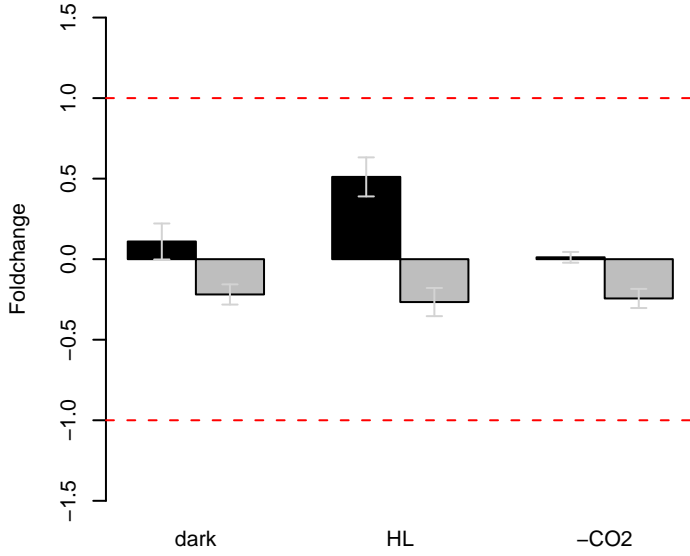
**slr0479**



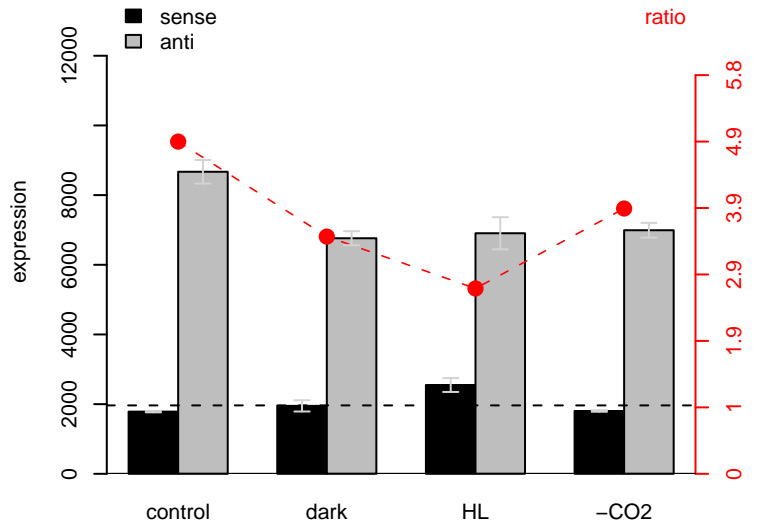
**genome\_3724**



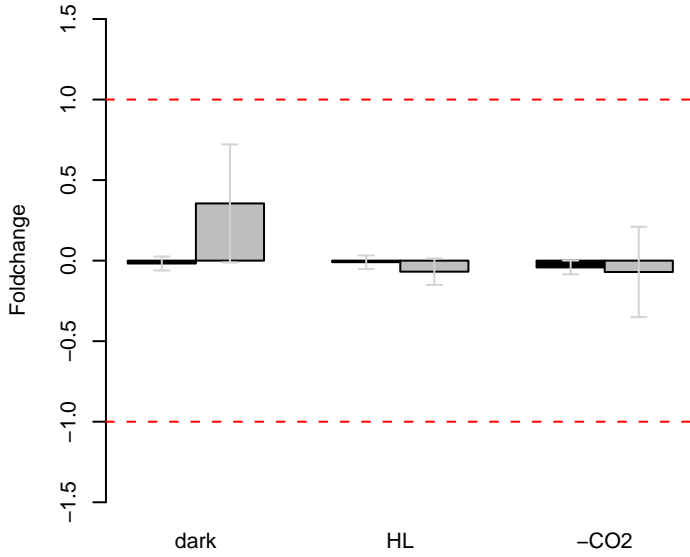
**slr0479**



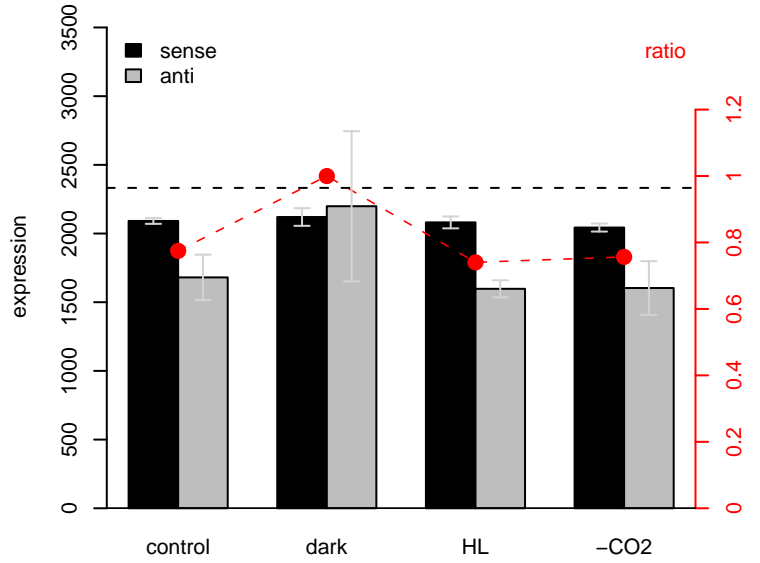
**genome\_3724**



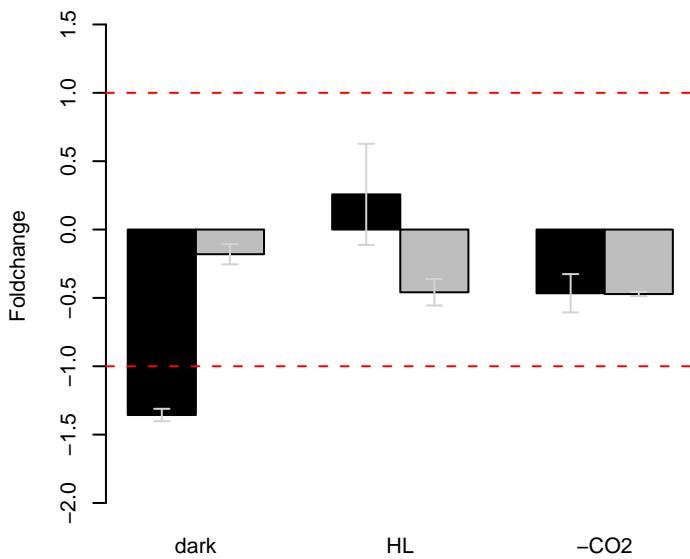
**pheA(sll1662)**



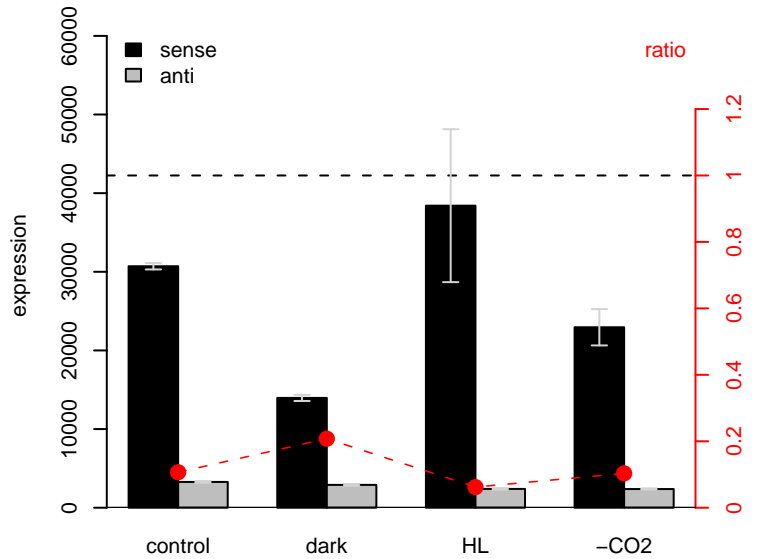
**genome\_372**

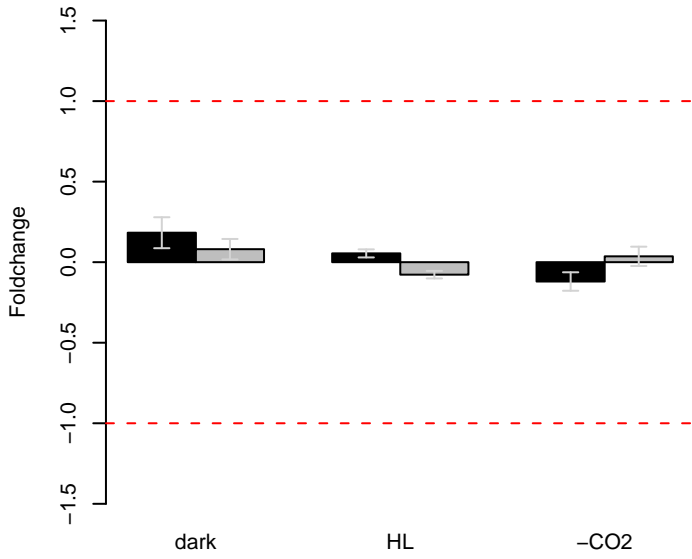
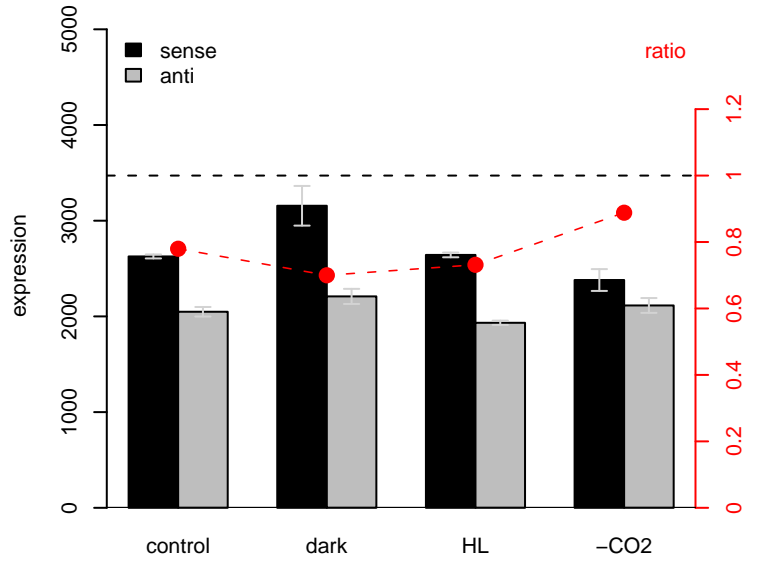
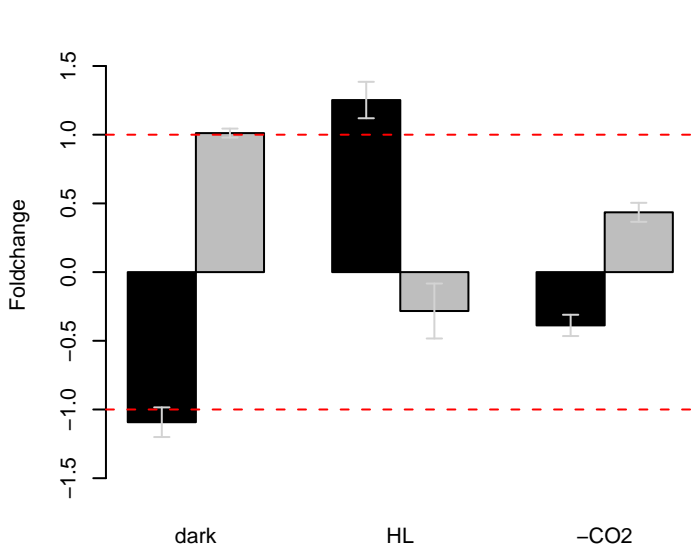
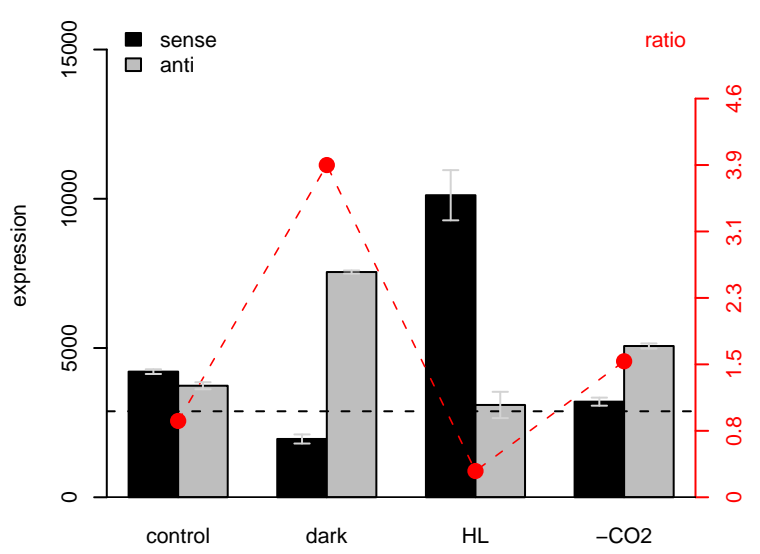
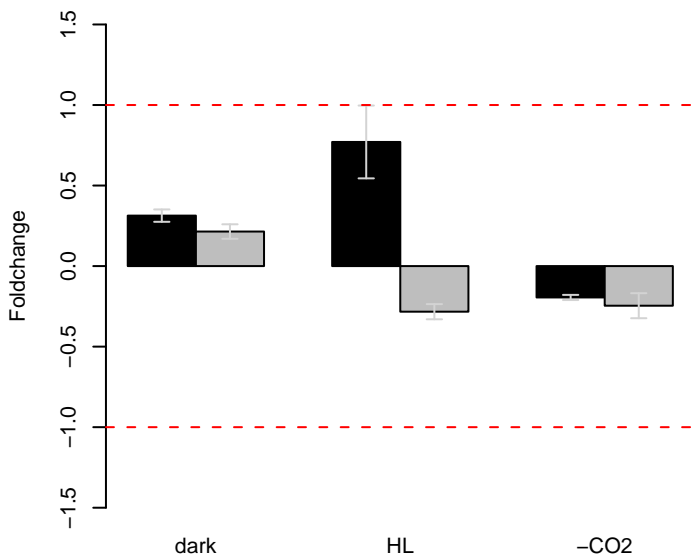
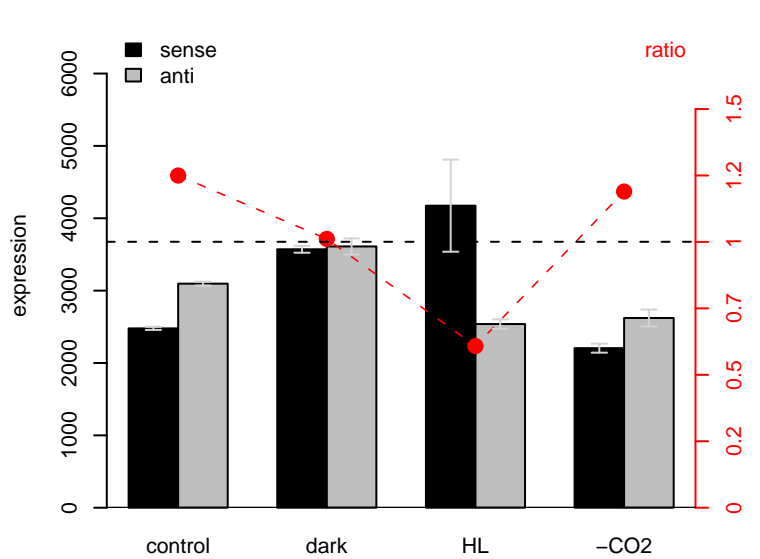


**slr0483**

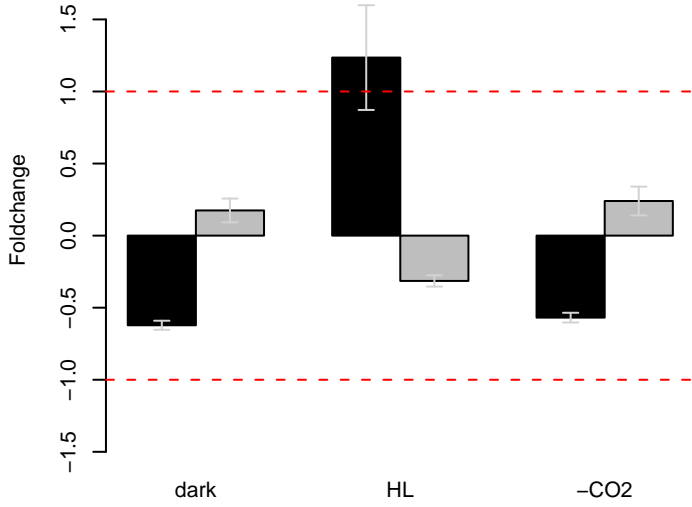


**genome\_3729**

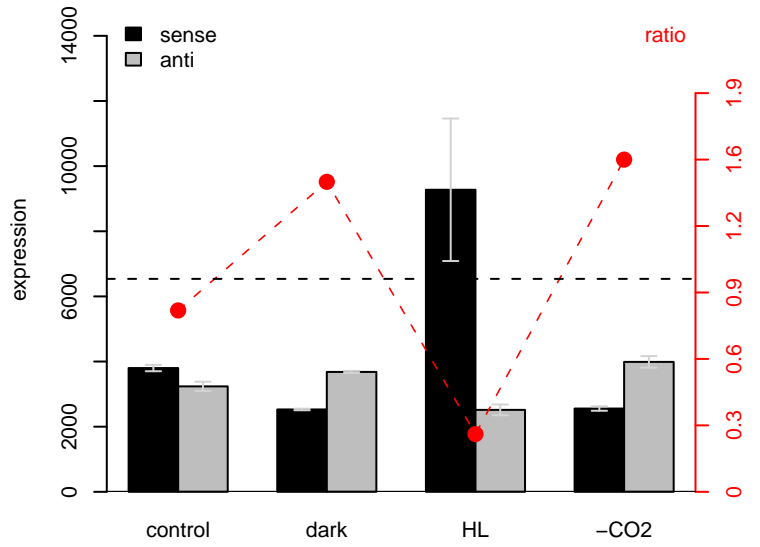


**sII0456****genome\_3738****sII0689****genome\_3748****pstC(sII0681)****genome\_3758**

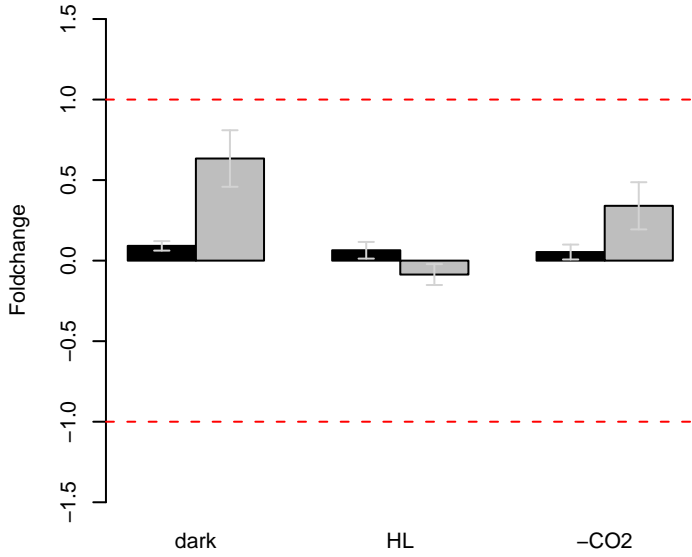
**pstS(sll0680)**



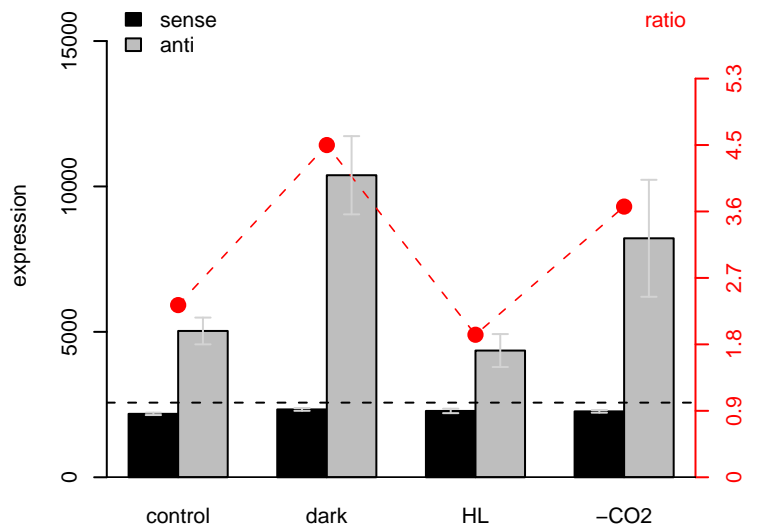
**genome\_3760**



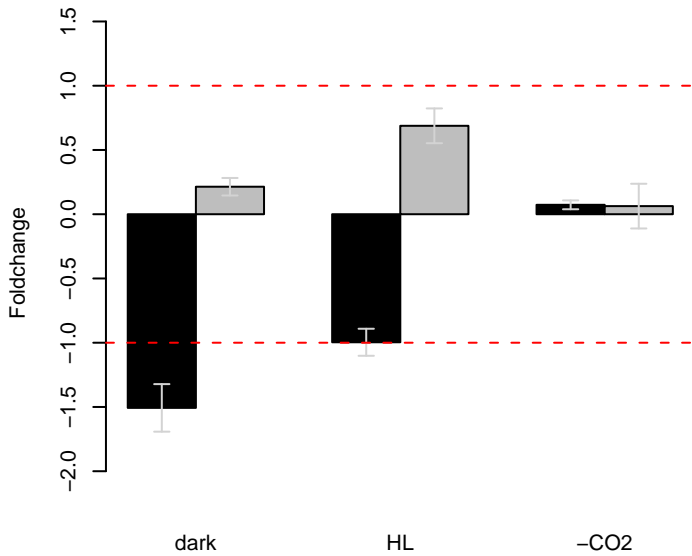
**slr0719**



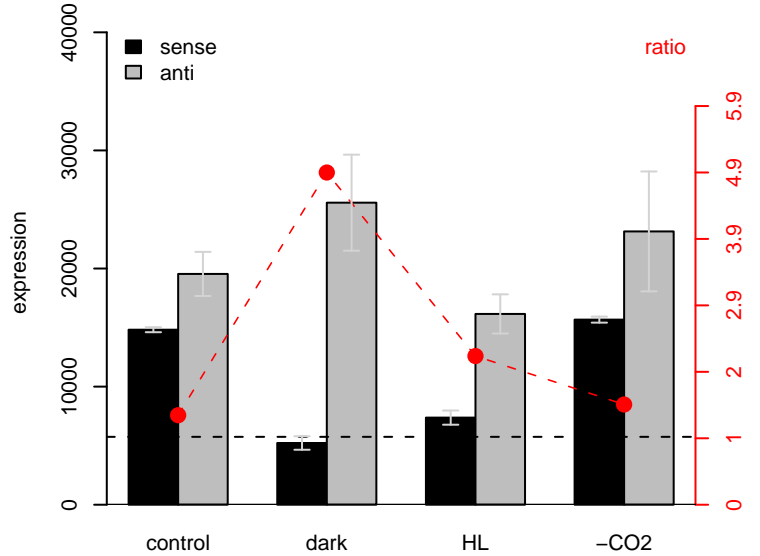
**genome\_3763**



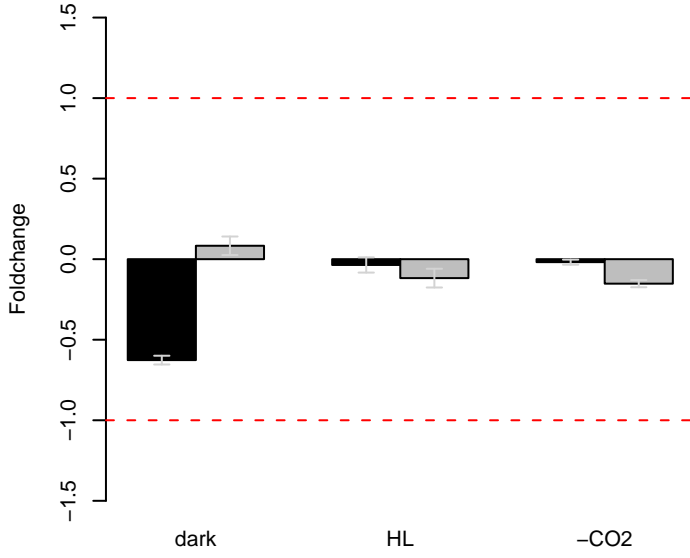
**im30(sll0617)**



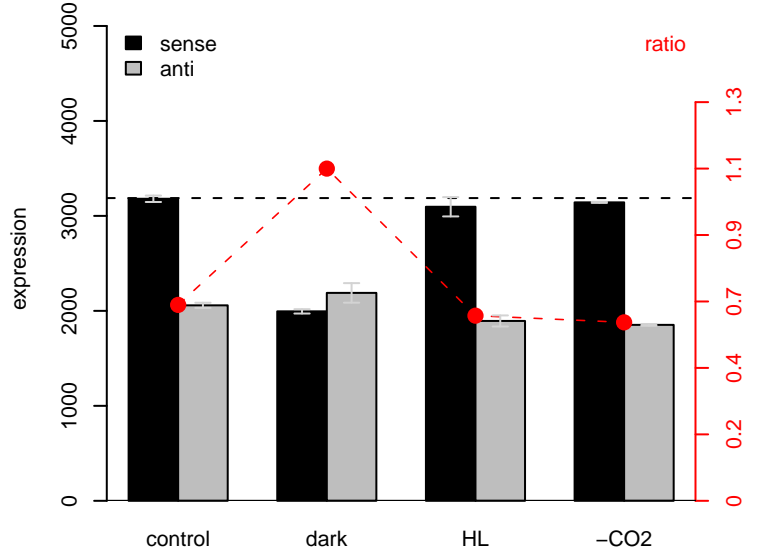
**genome\_3769**



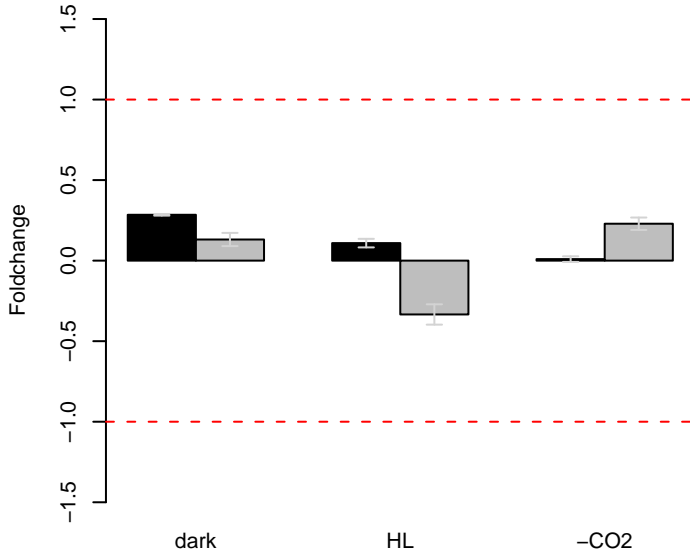
**pleD(slr1798)**



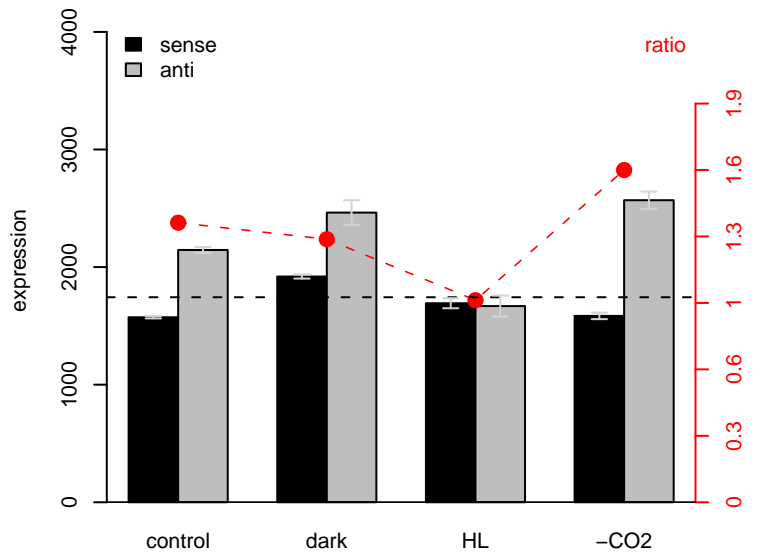
**genome\_376**



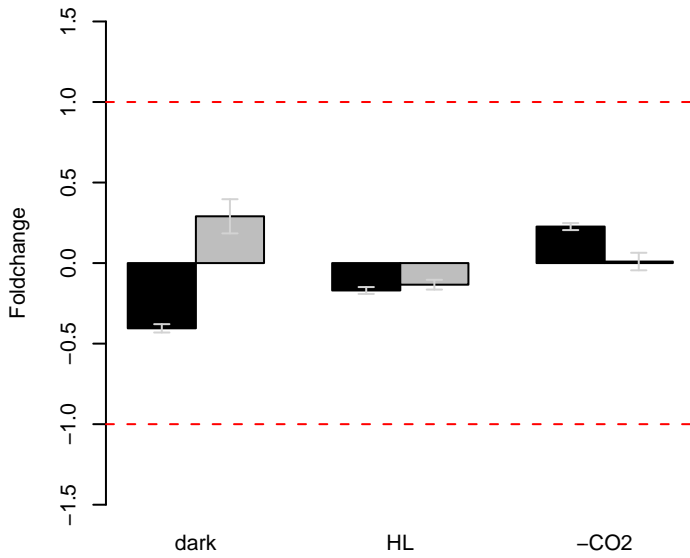
**slr0644**



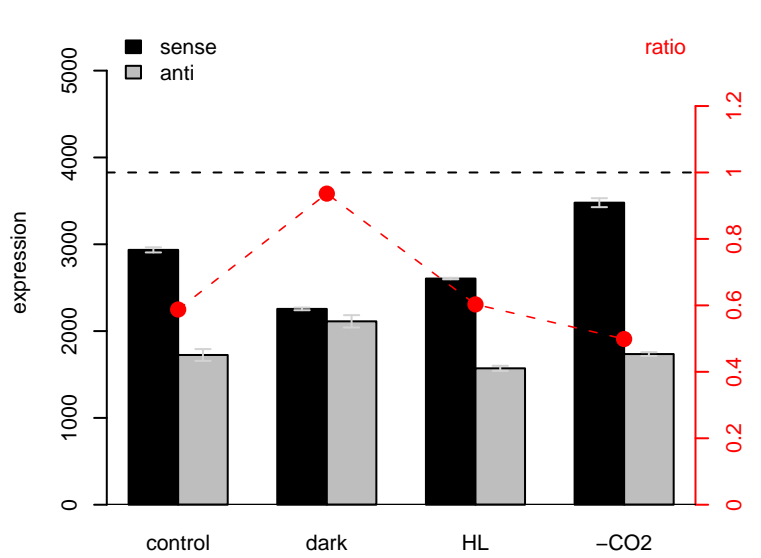
**genome\_3793**



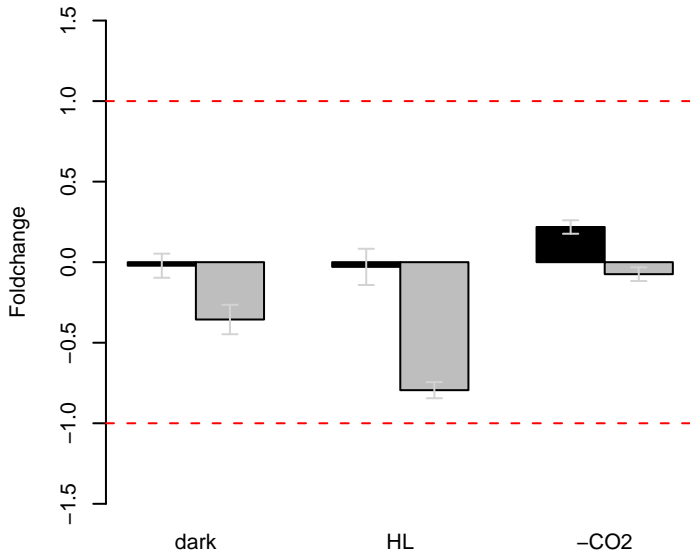
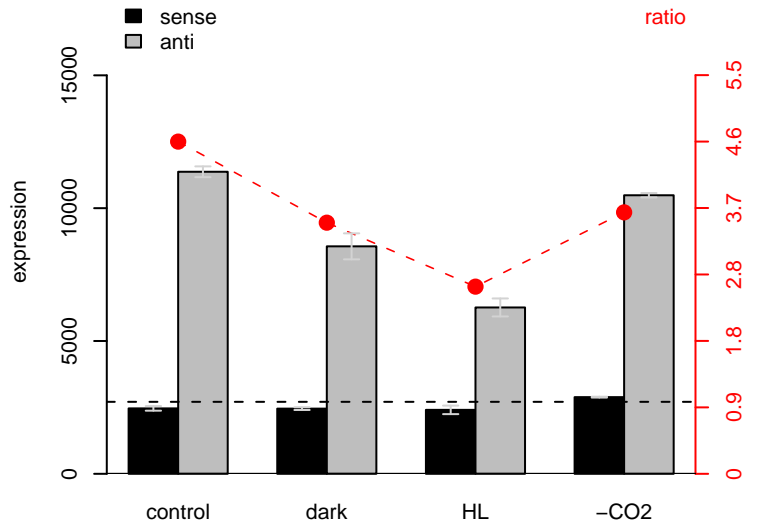
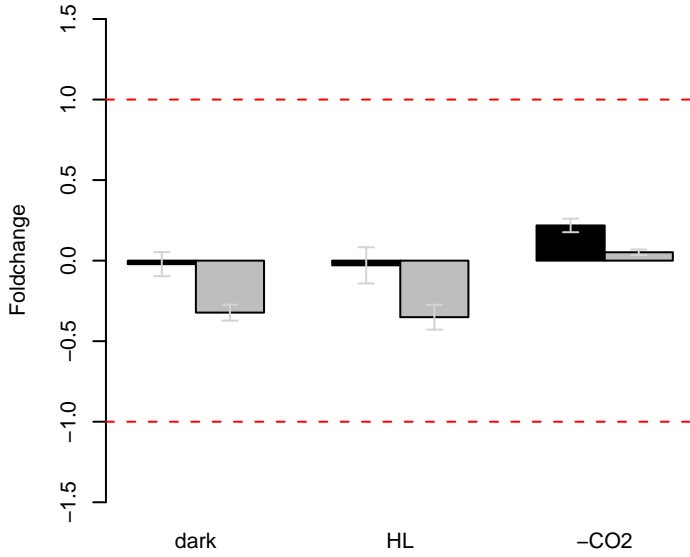
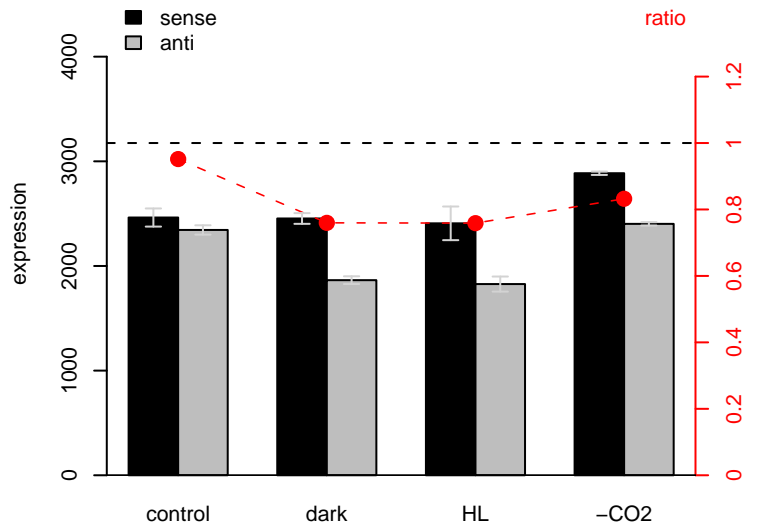
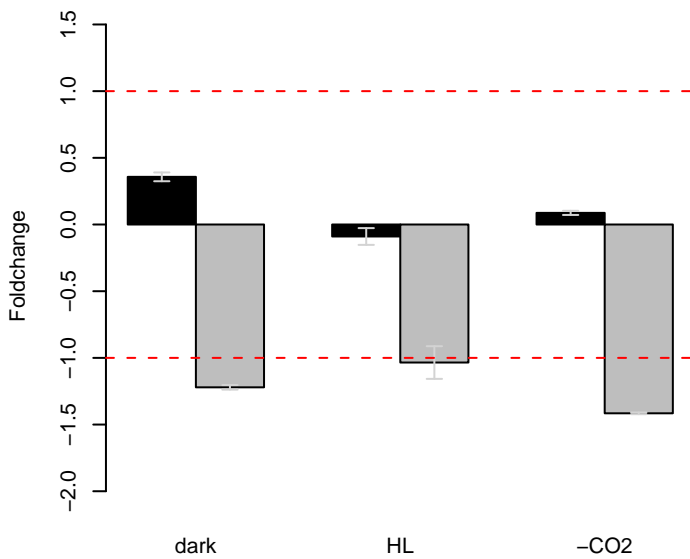
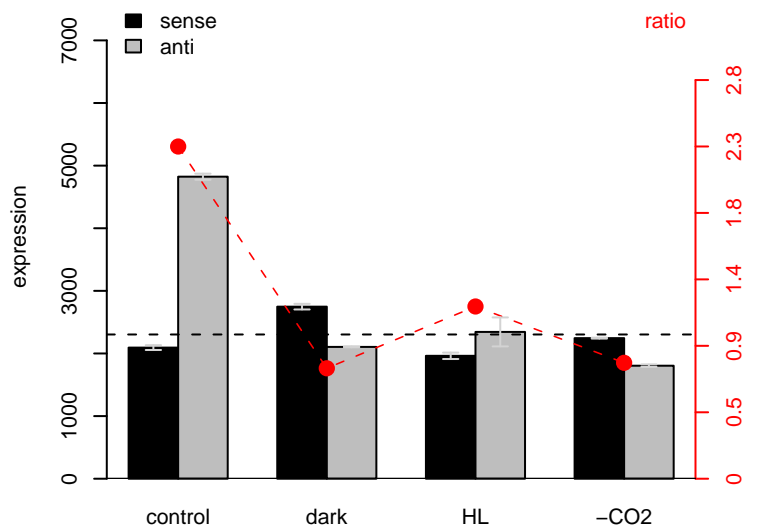
**slr0602**

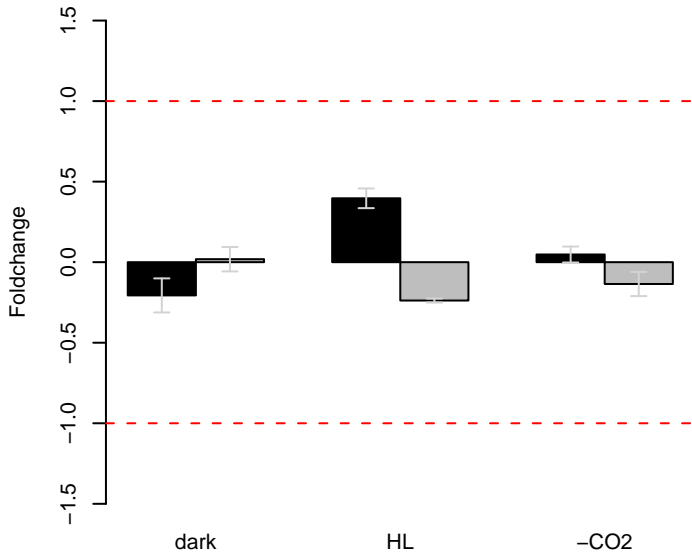
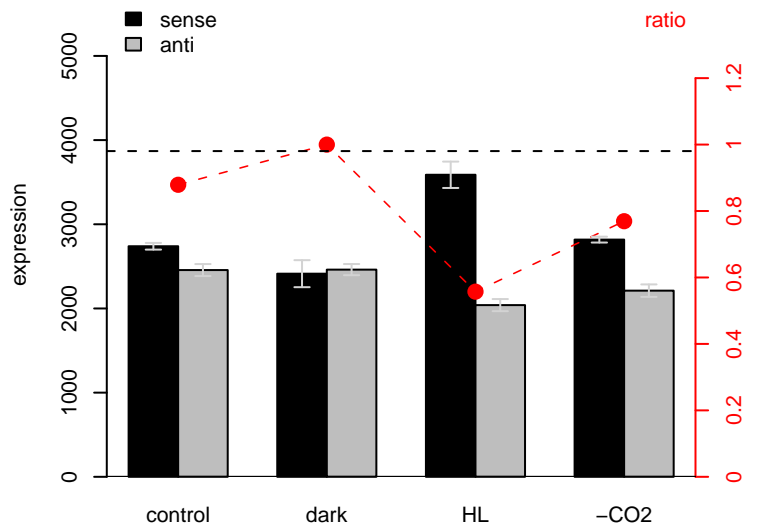
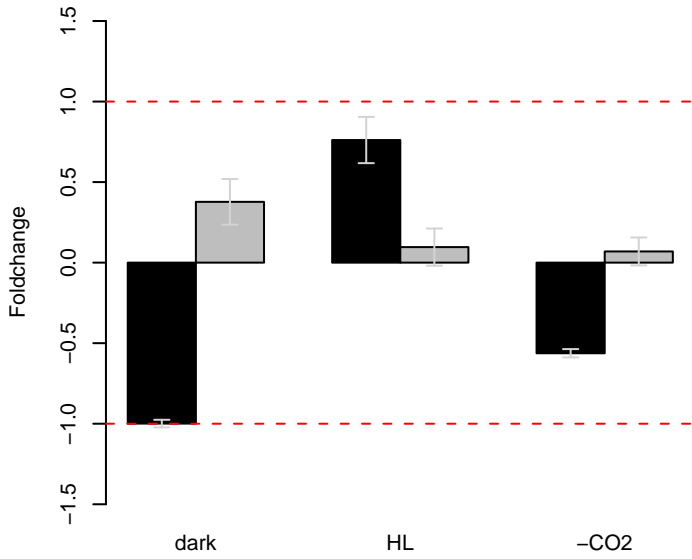
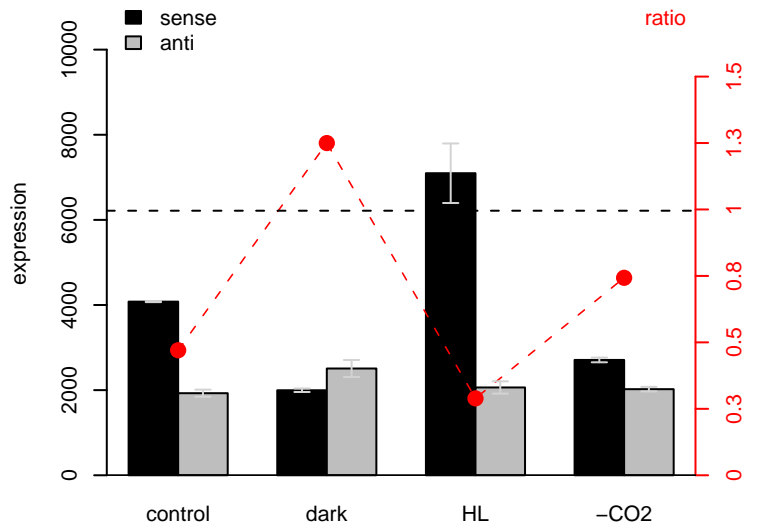
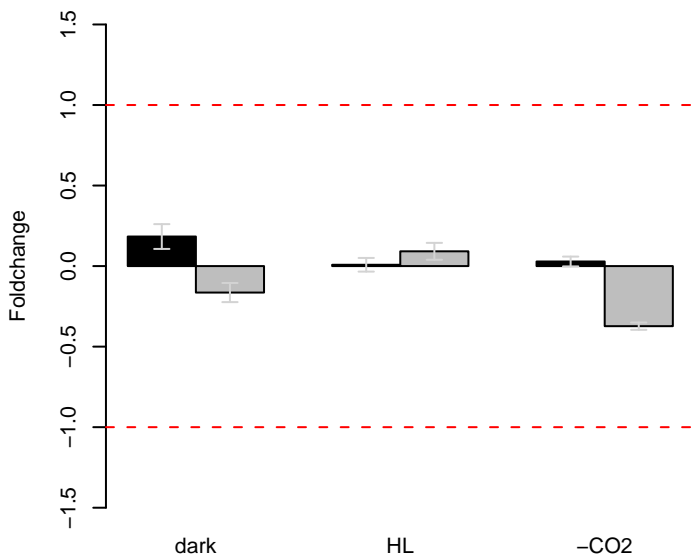
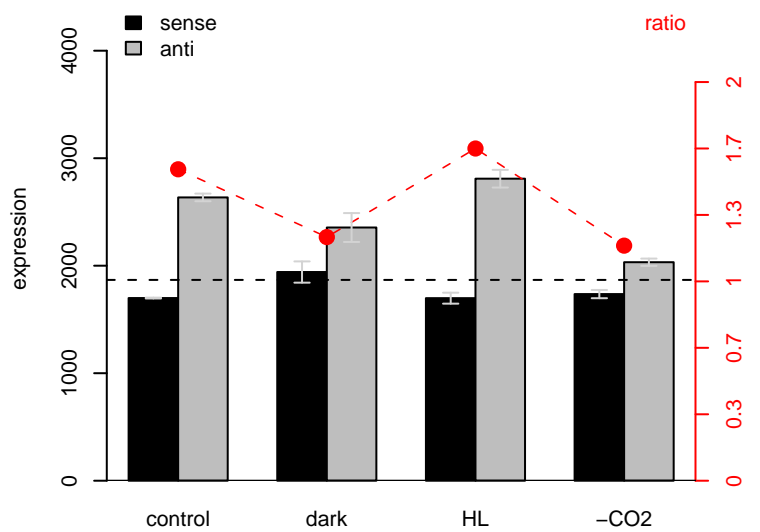


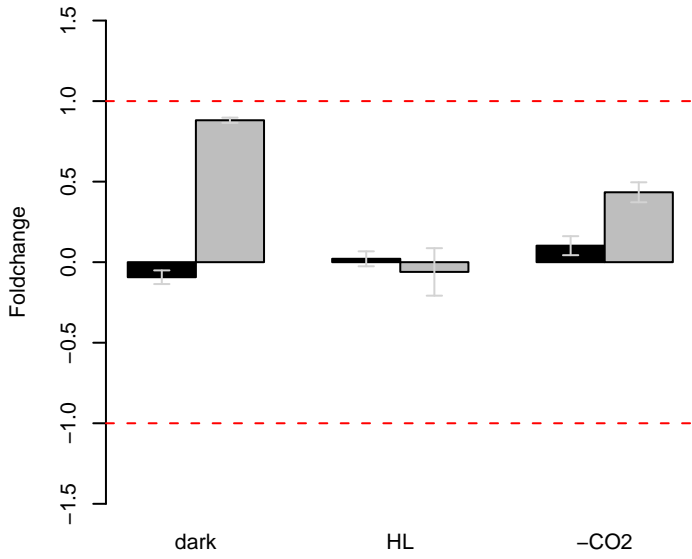
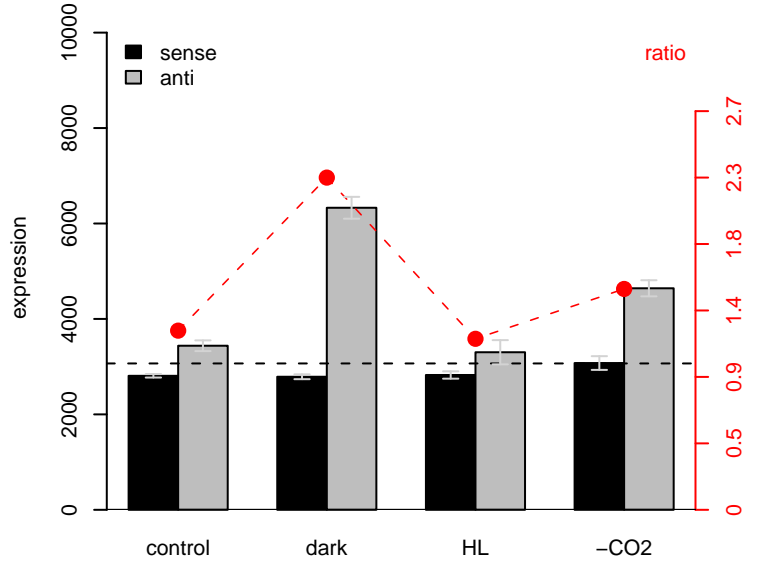
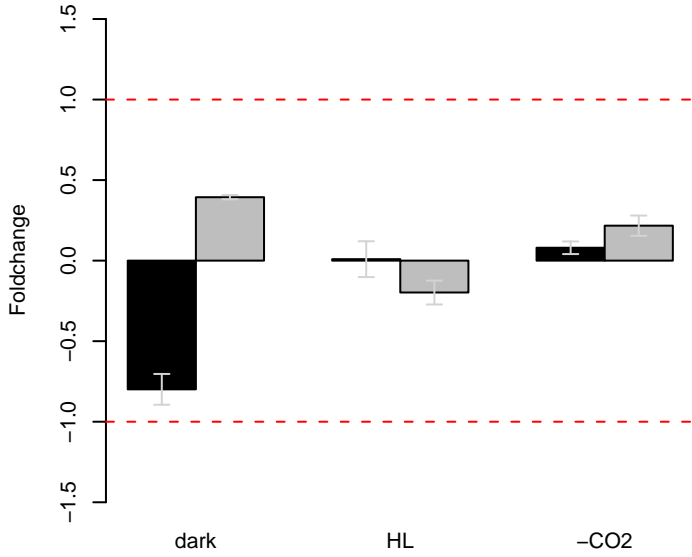
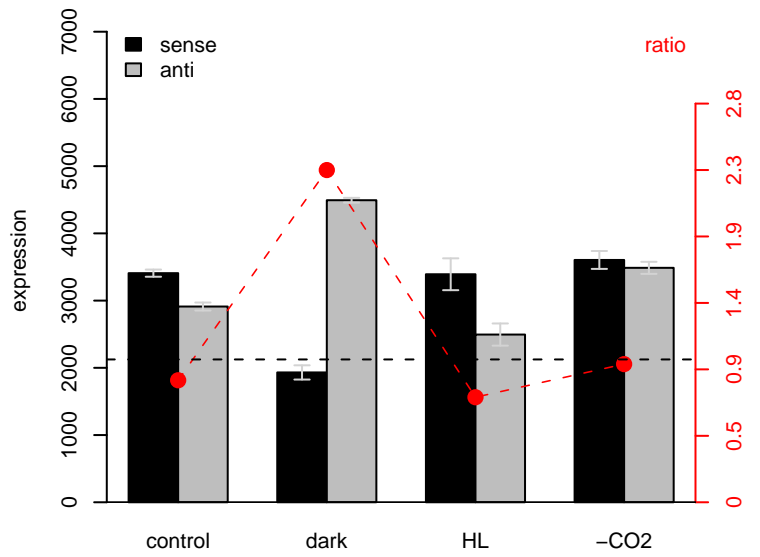
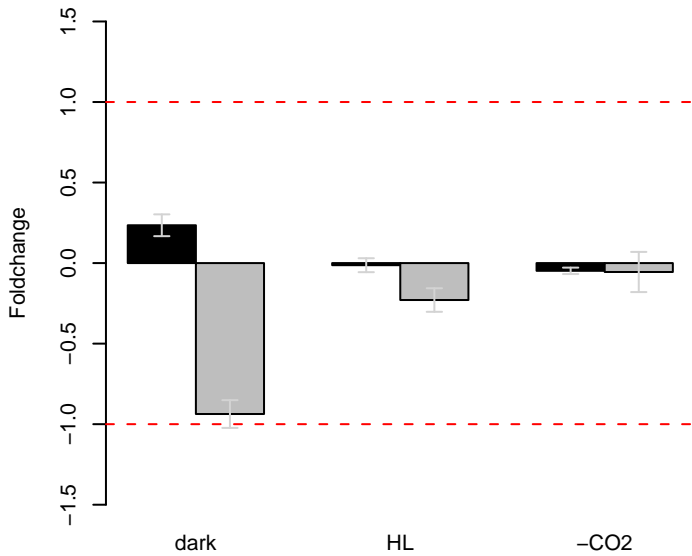
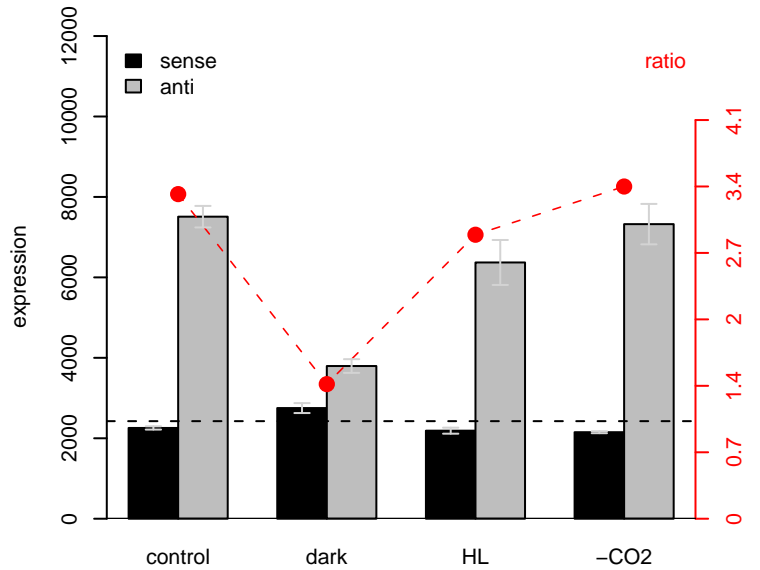
**genome\_3796**

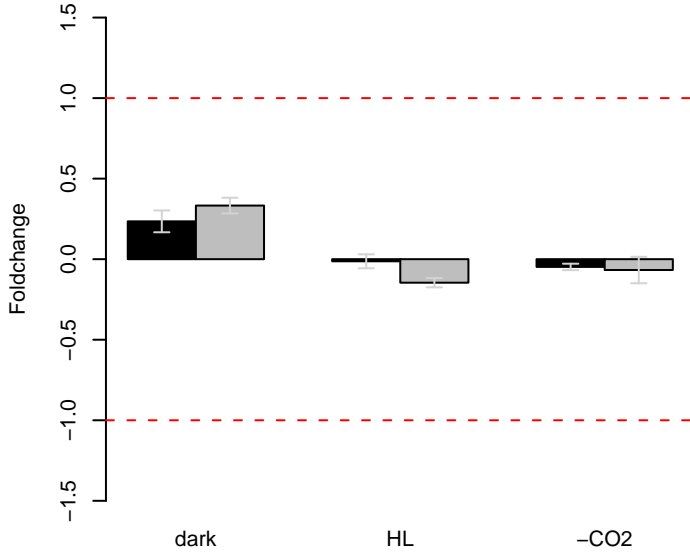
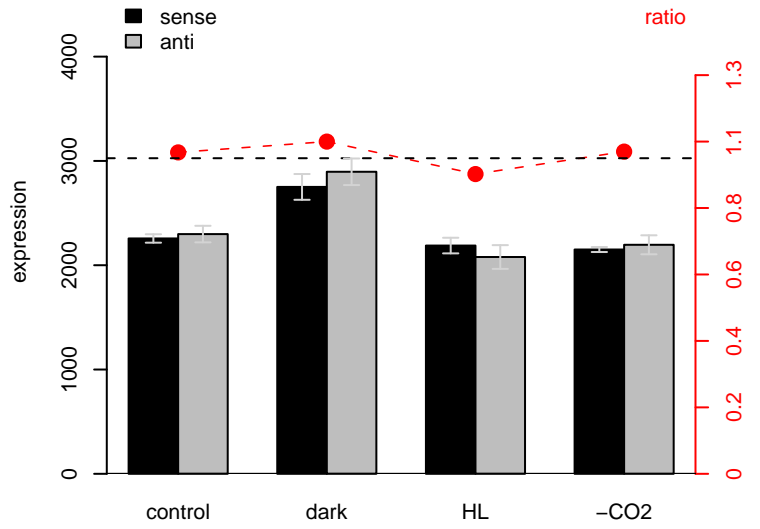
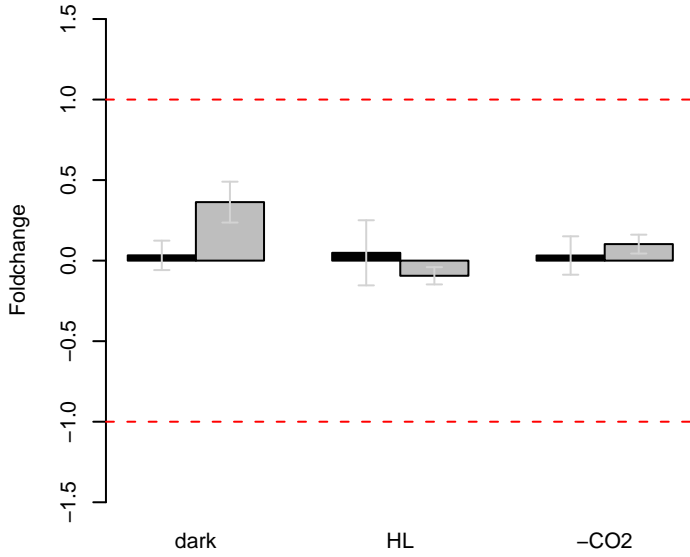
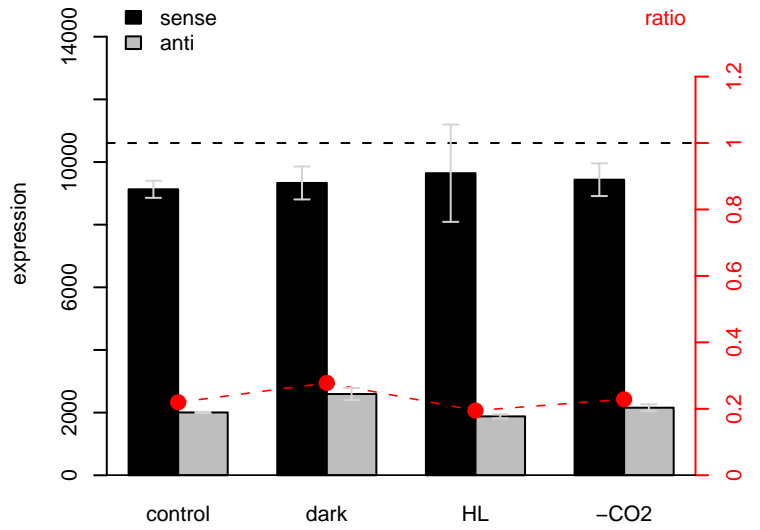
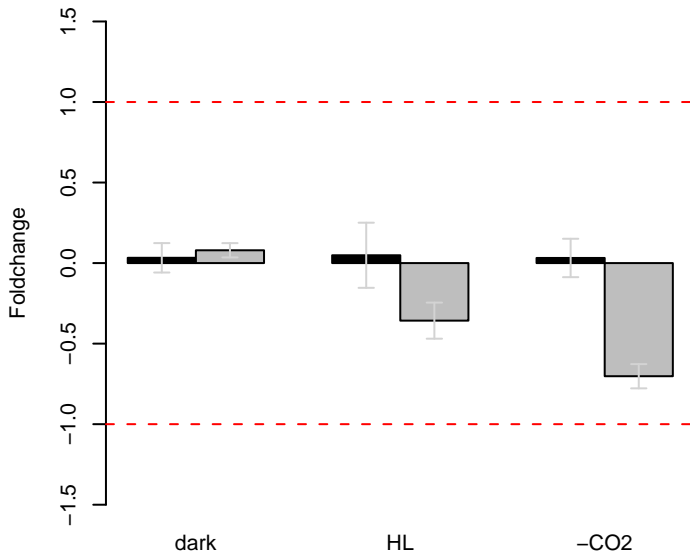
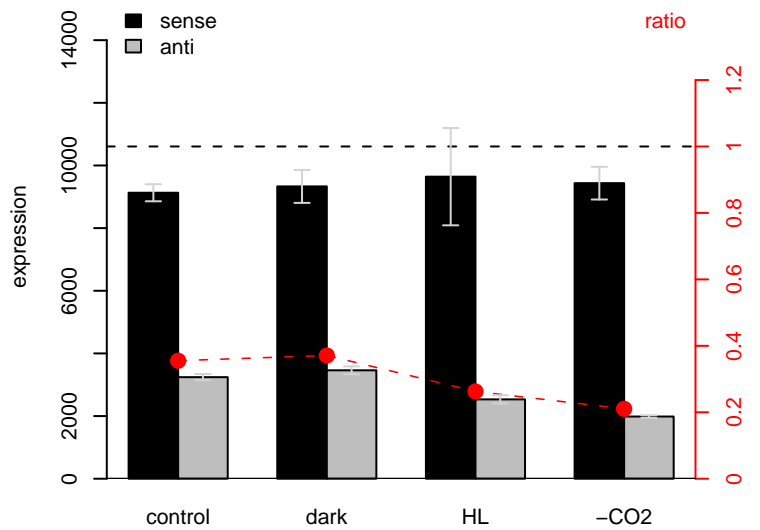




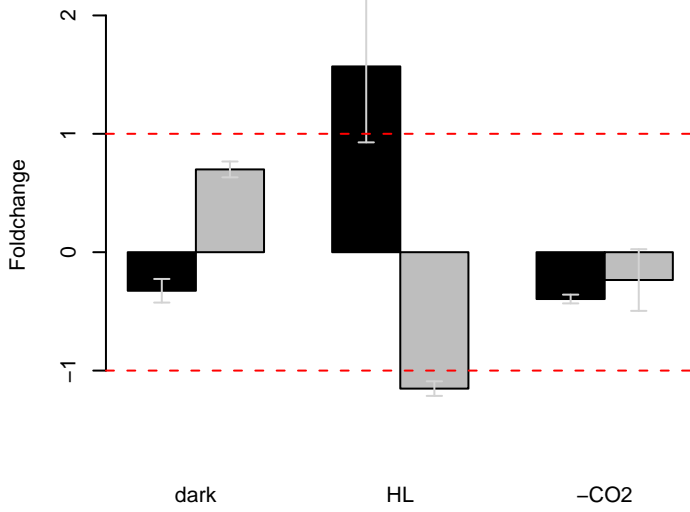
**slr0645****genome\_3798****slr0645****genome\_3798****dacB(slr0646)****genome\_3801**

**sli0601****genome\_3806****metG(slr0649)****genome\_3808****dgt(sli0398)****genome\_3811**

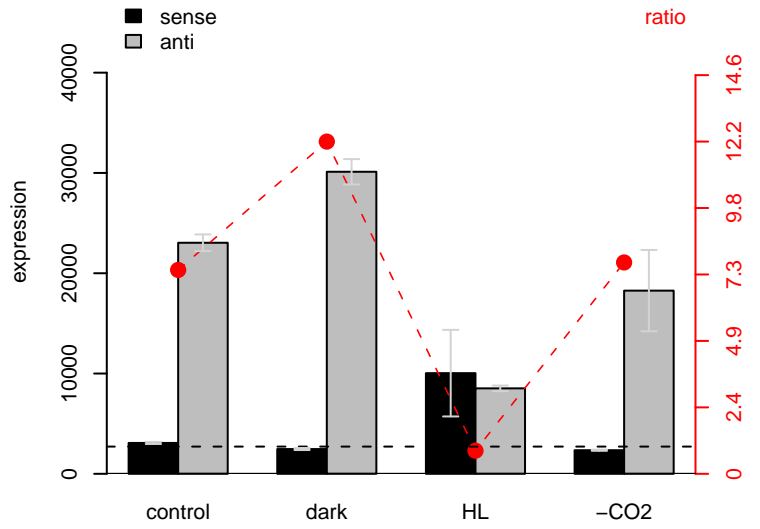
**sli0396****genome\_3814****sli0395****genome\_3818****napA(slr0415)****genome\_3821**

**napA(slr0415)****genome\_3821****slr0420****genome\_3839****slr0420****genome\_3839**

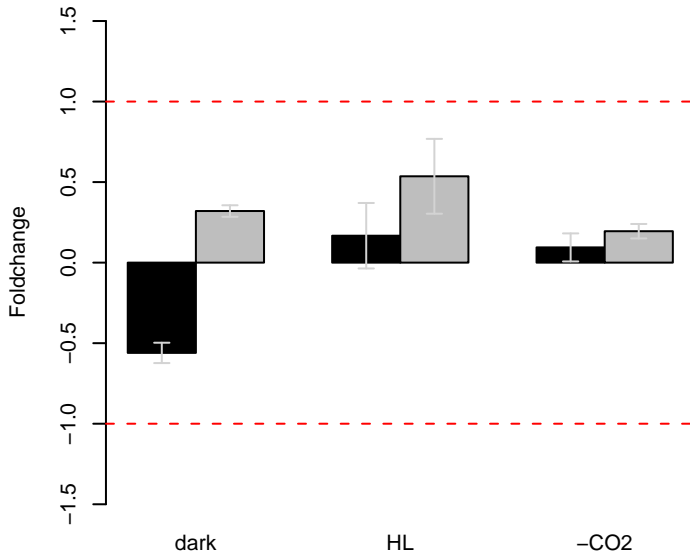
**ripA(slr0423)**



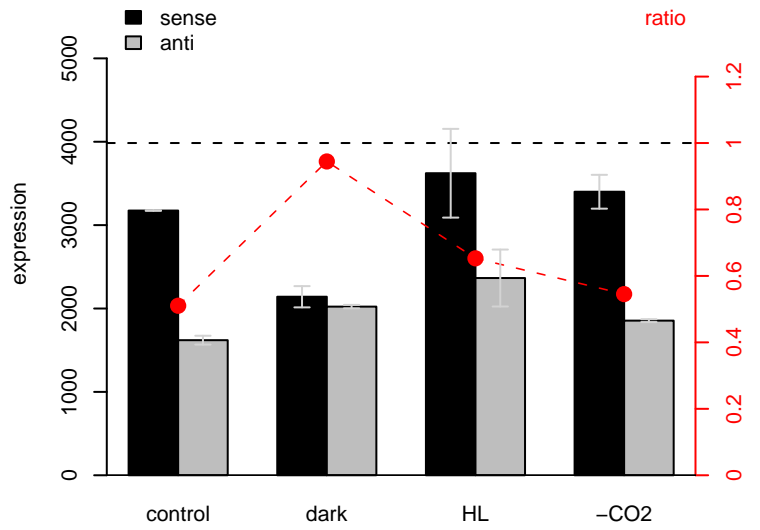
**genome\_3847**



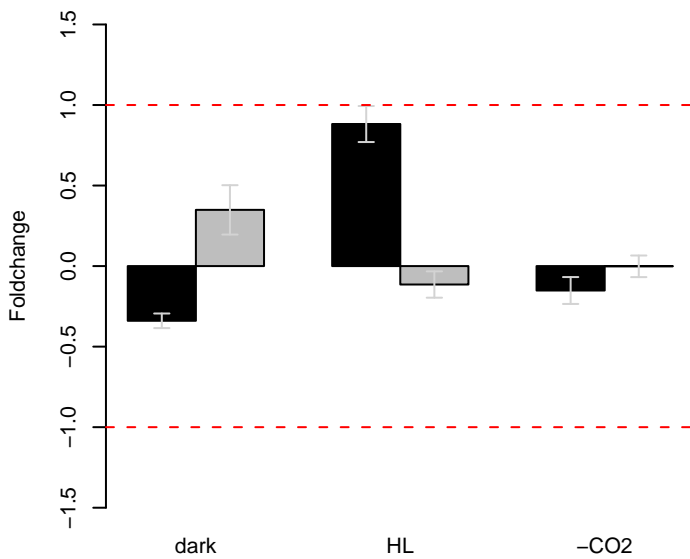
**braG(sll0374)**



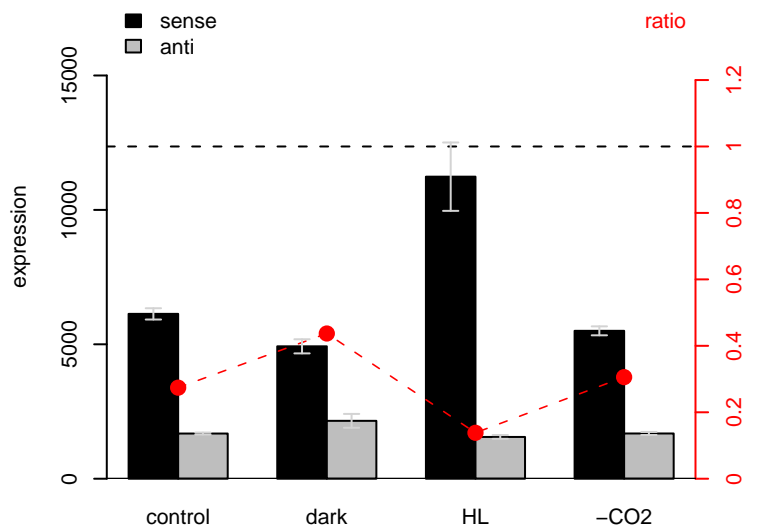
**genome\_3852**



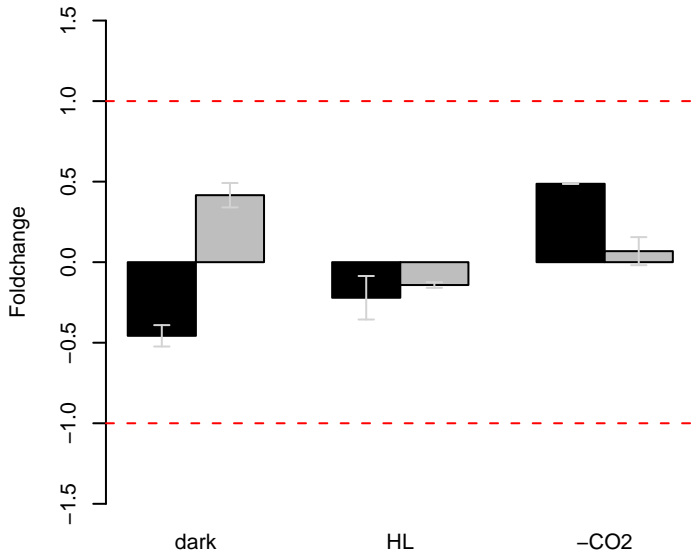
**foiE(slr0426)**



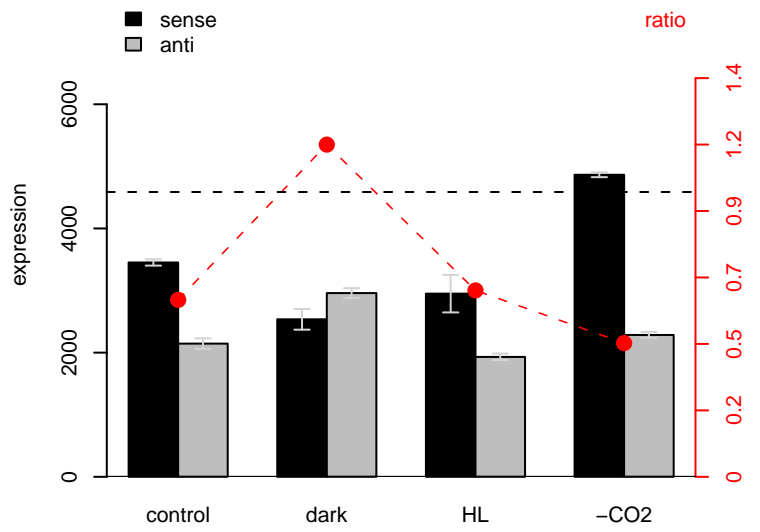
**genome\_3861**



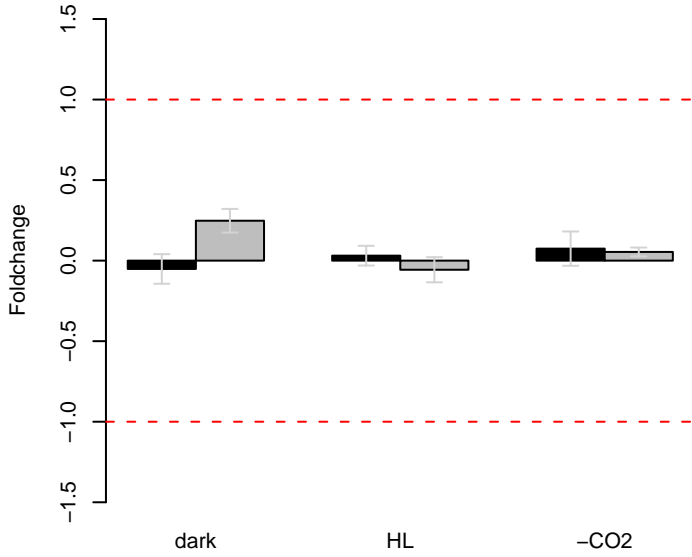
**sli0188**



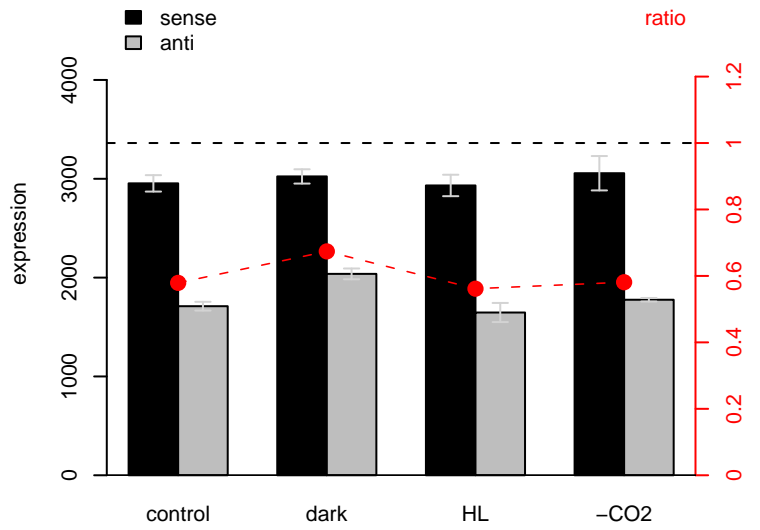
**genome\_3865**



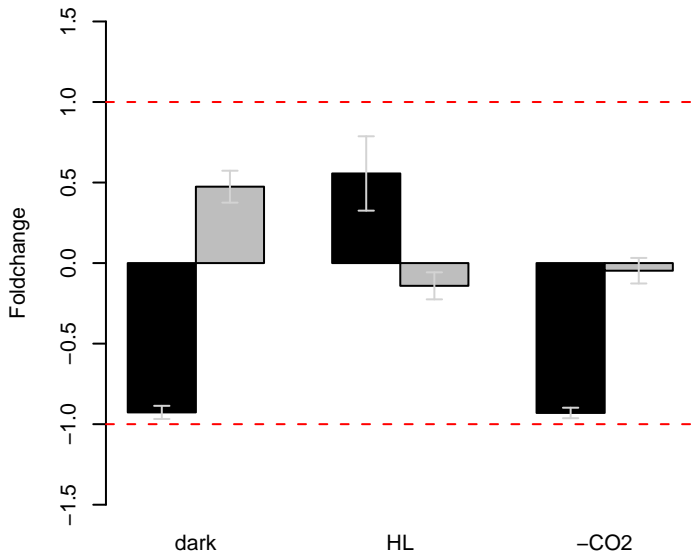
**lytB(slr0191)**



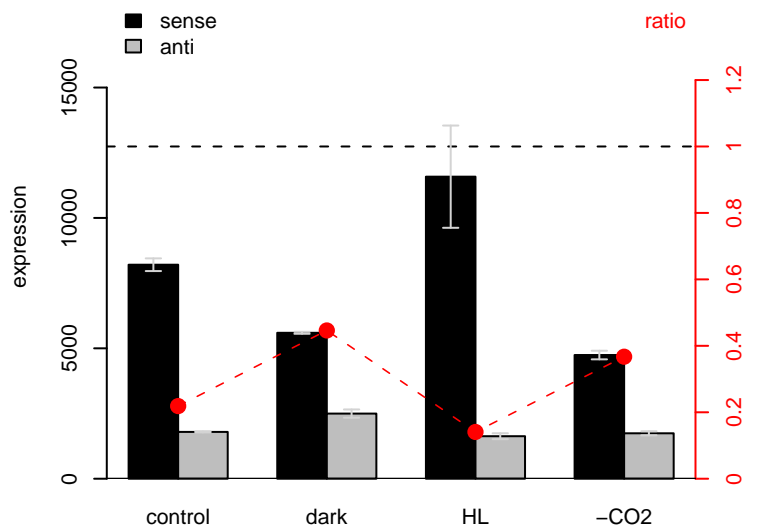
**genome\_3867**

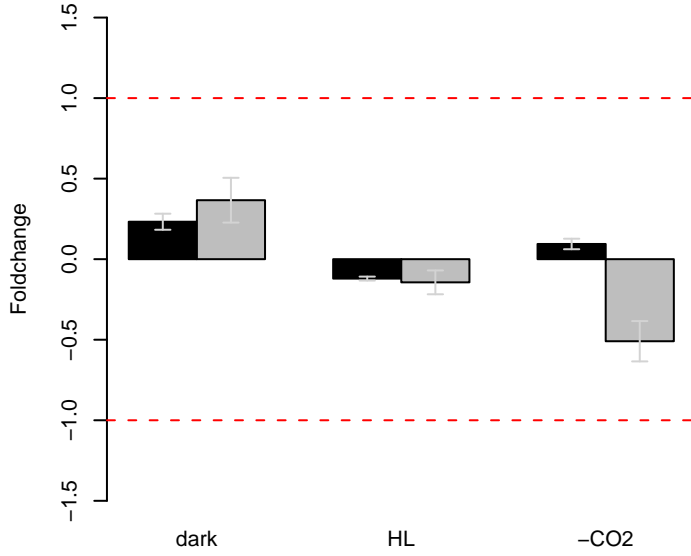
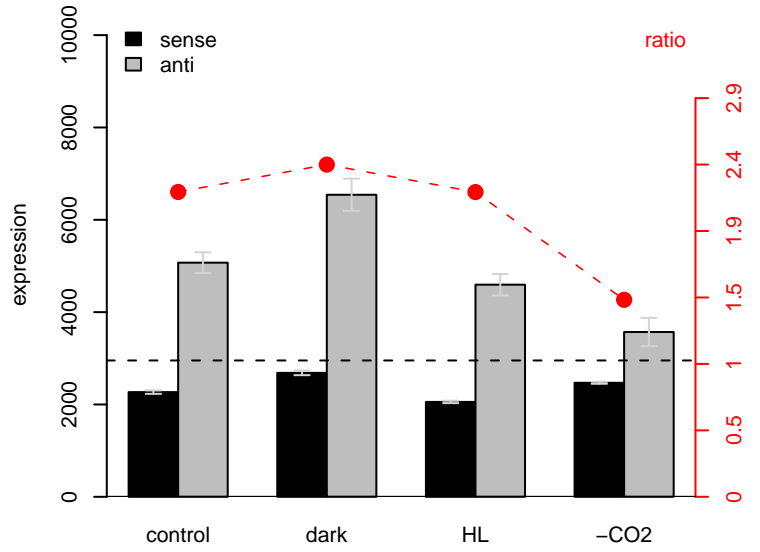
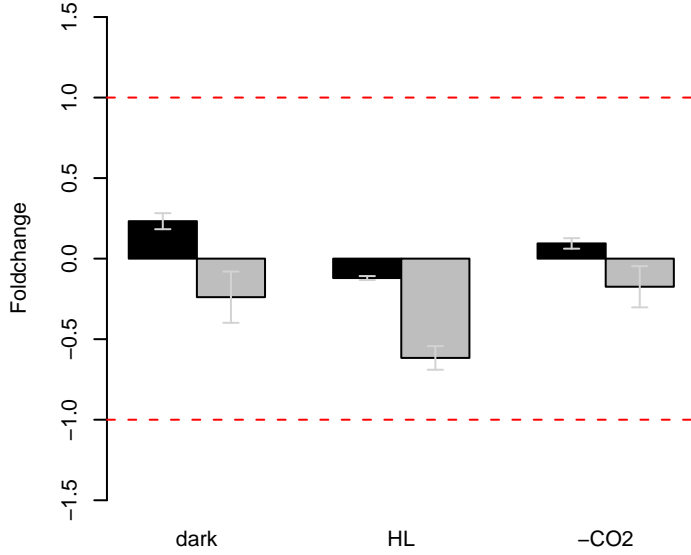
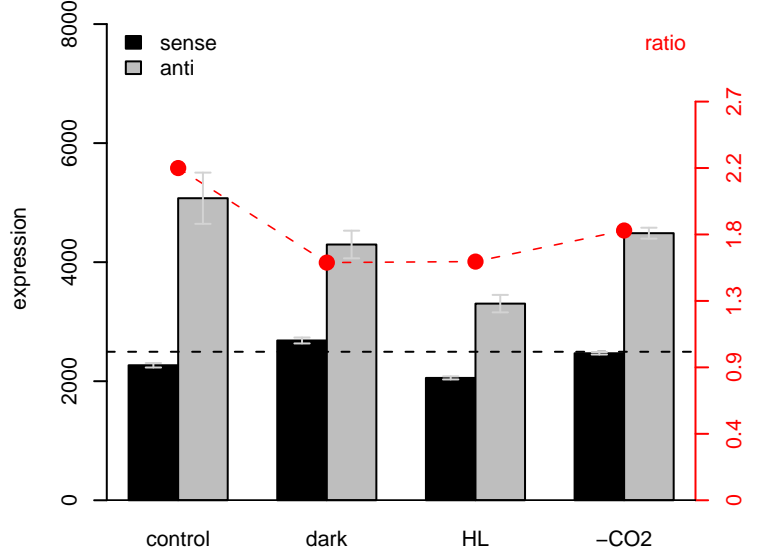
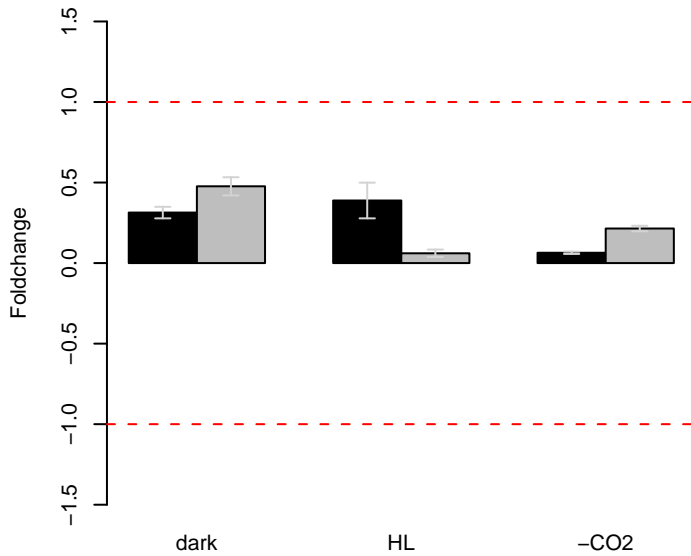
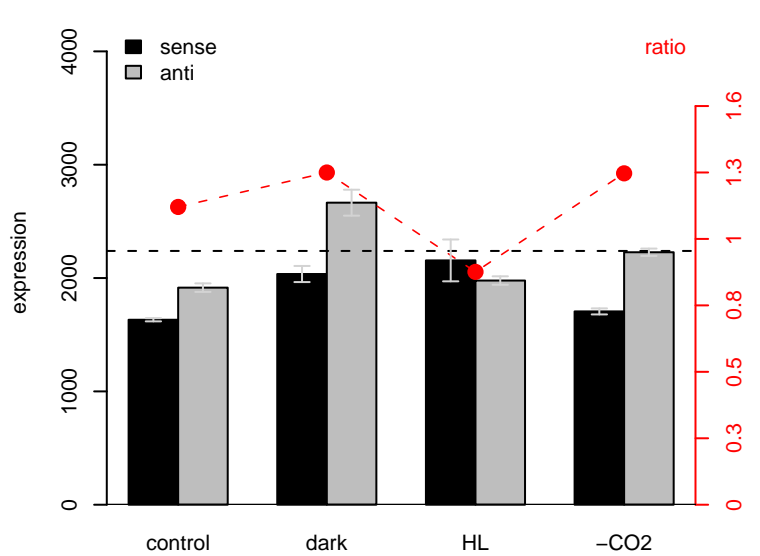


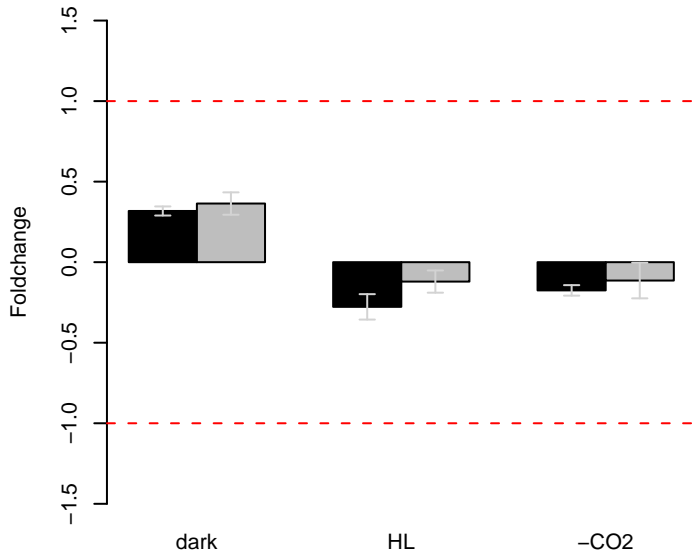
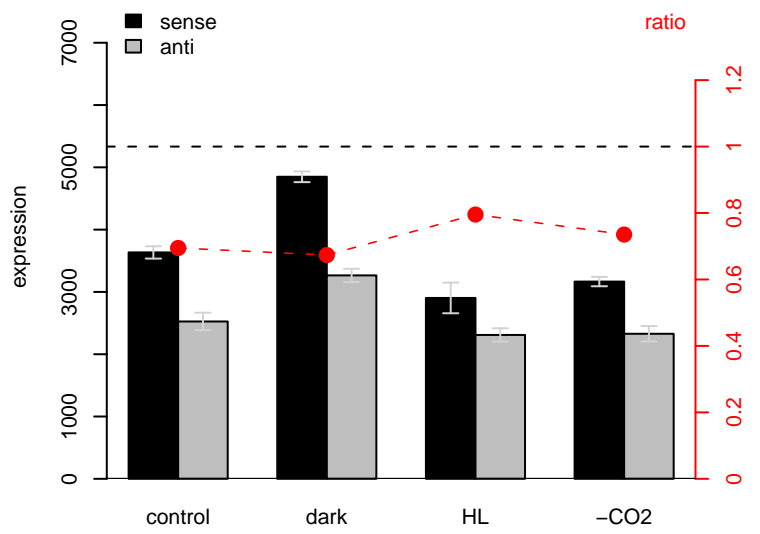
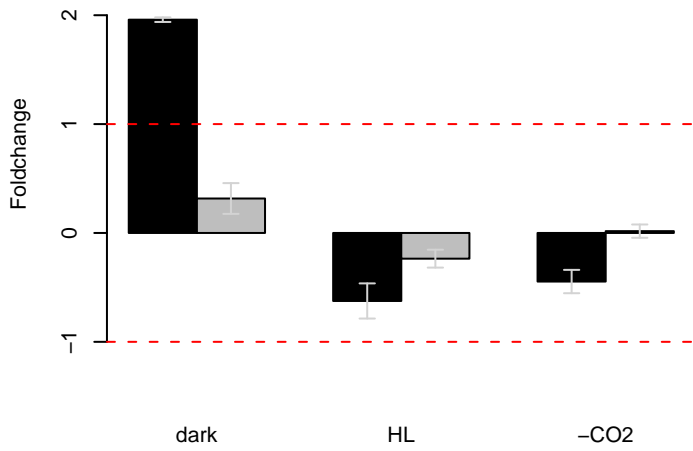
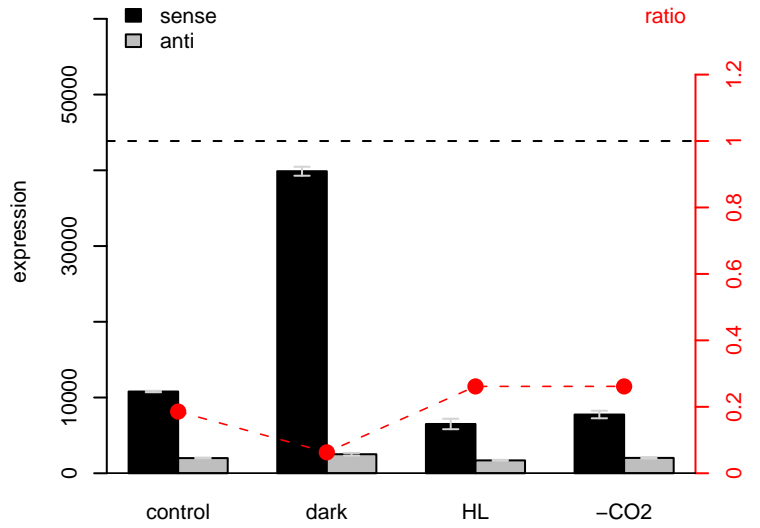
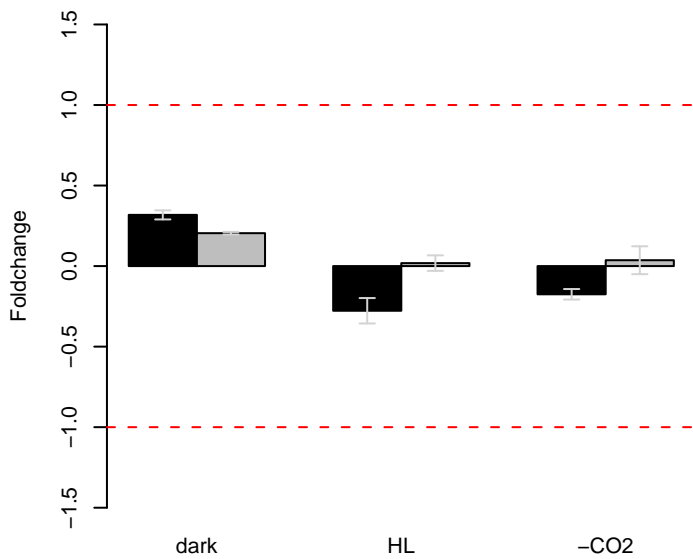
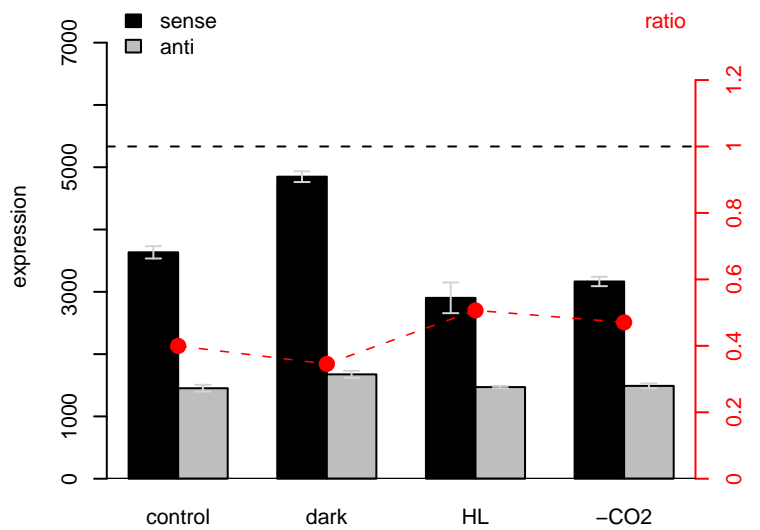
**rpiA(slr0194)**



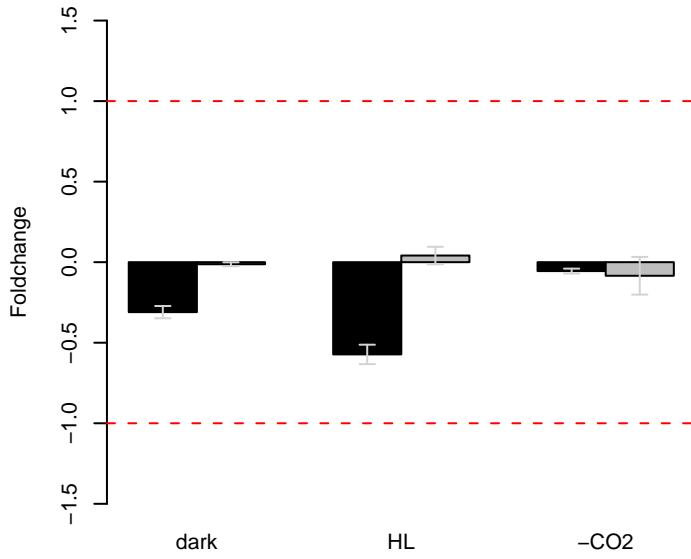
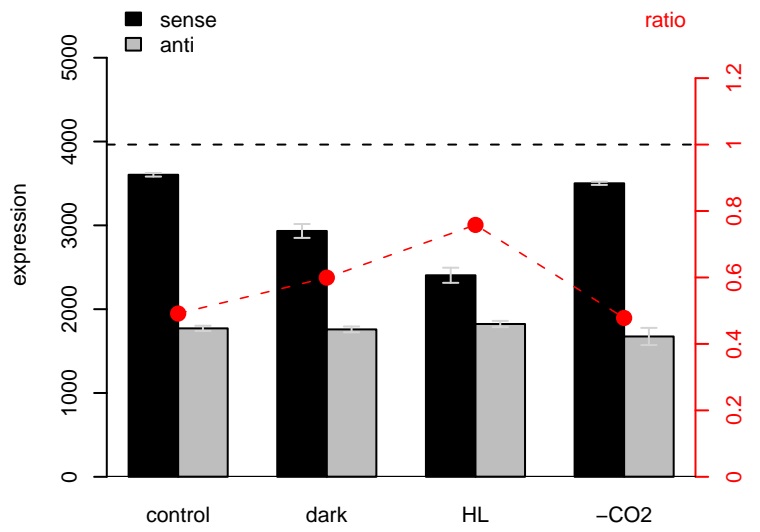
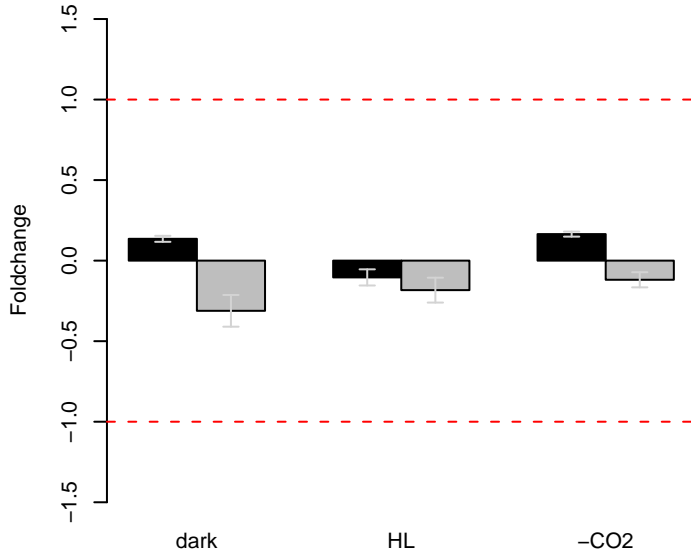
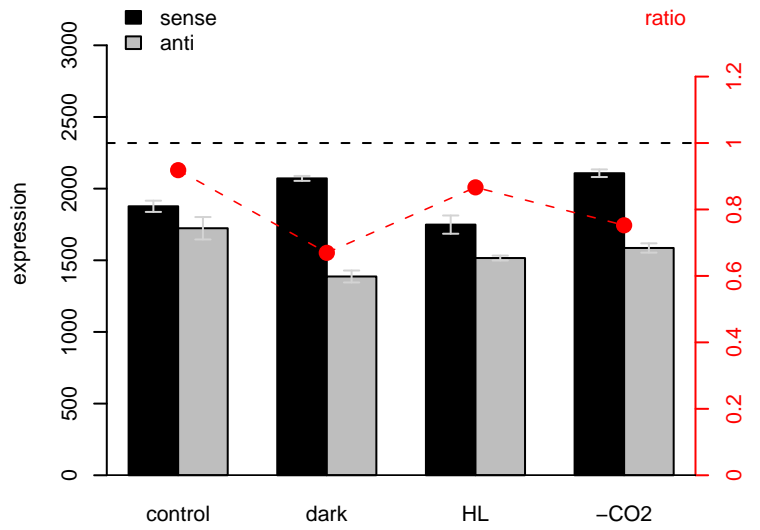
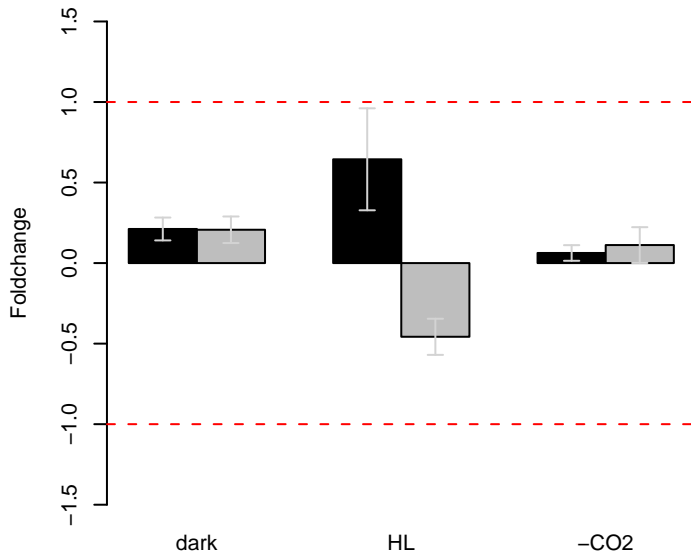
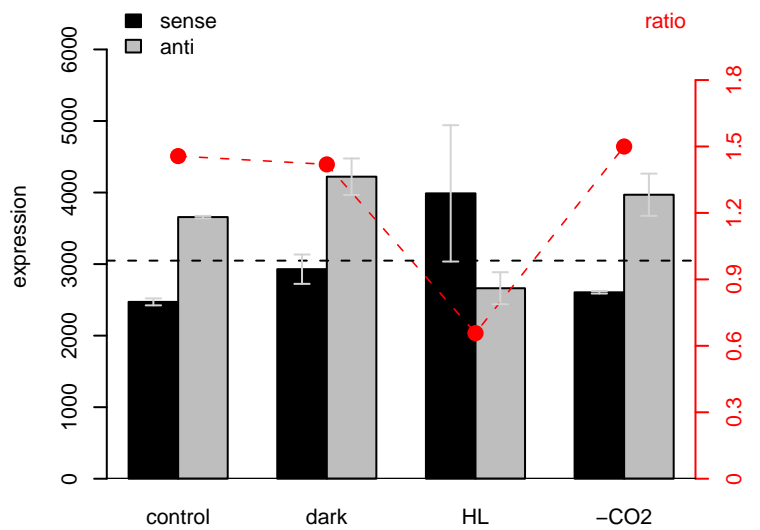
**genome\_3872**

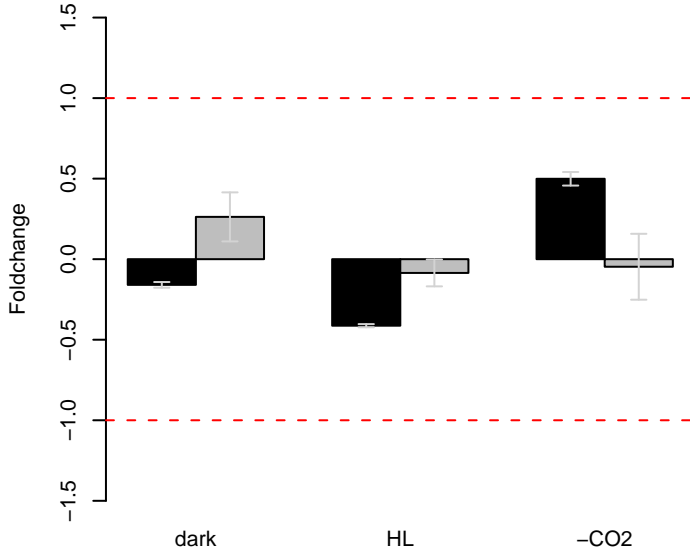
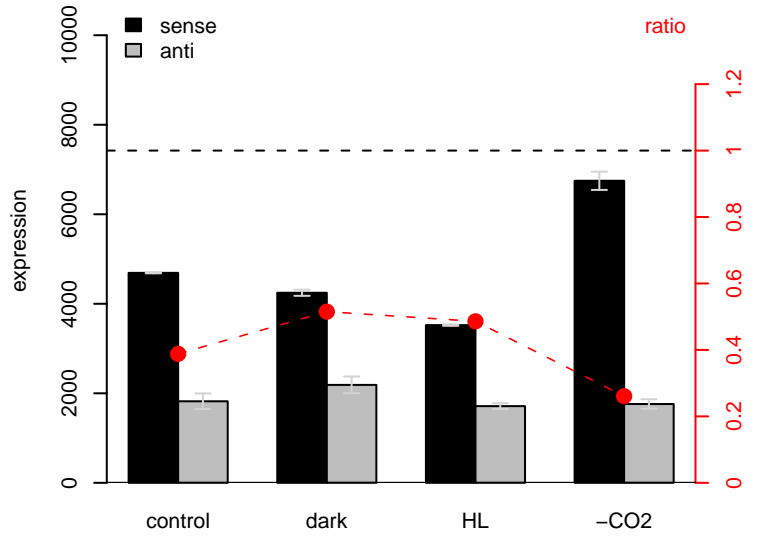
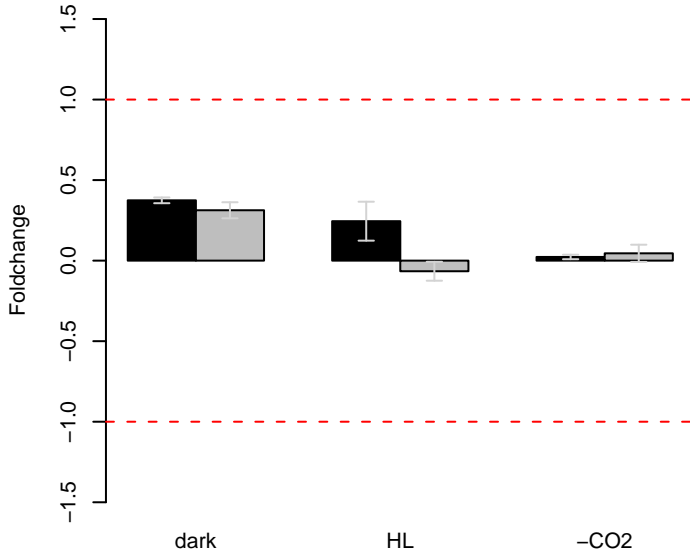
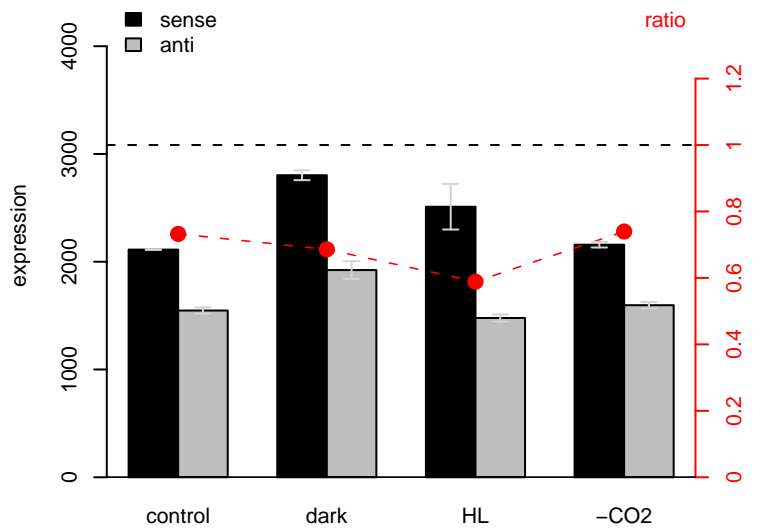
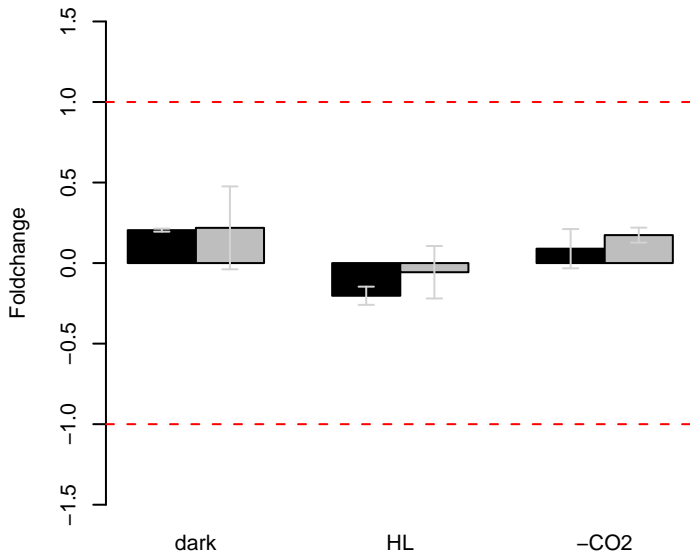
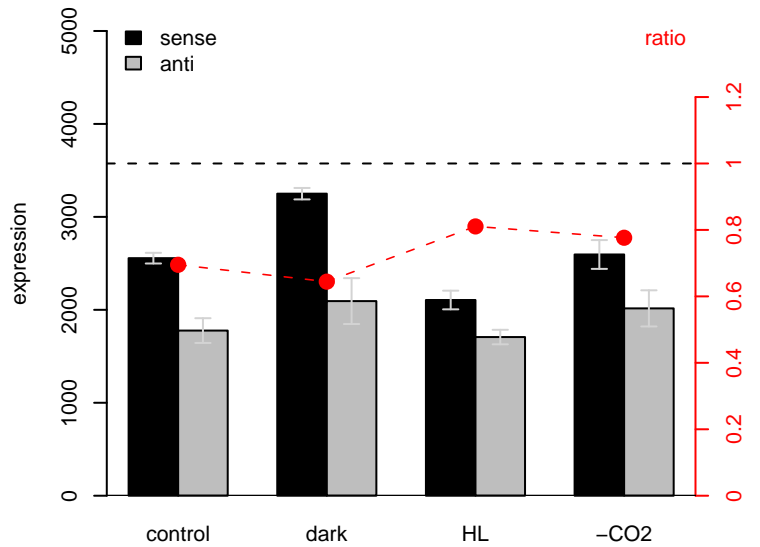


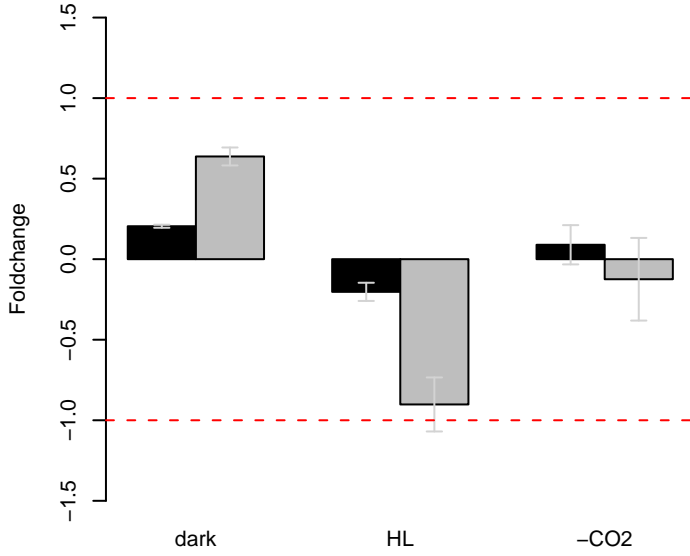
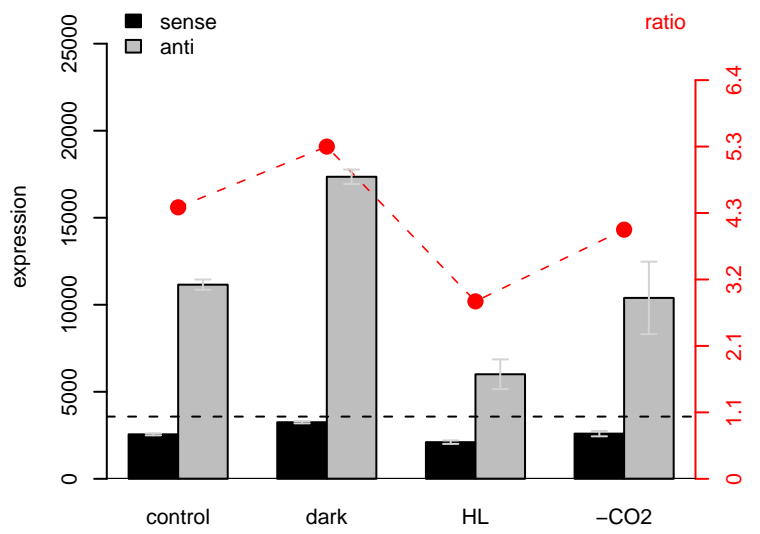
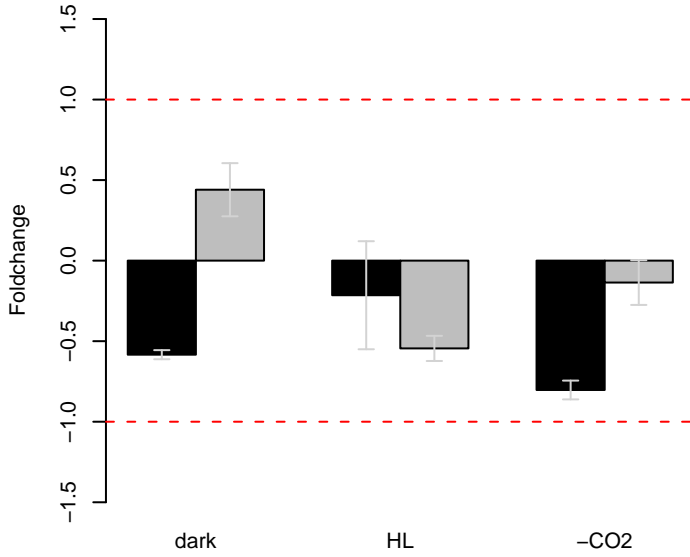
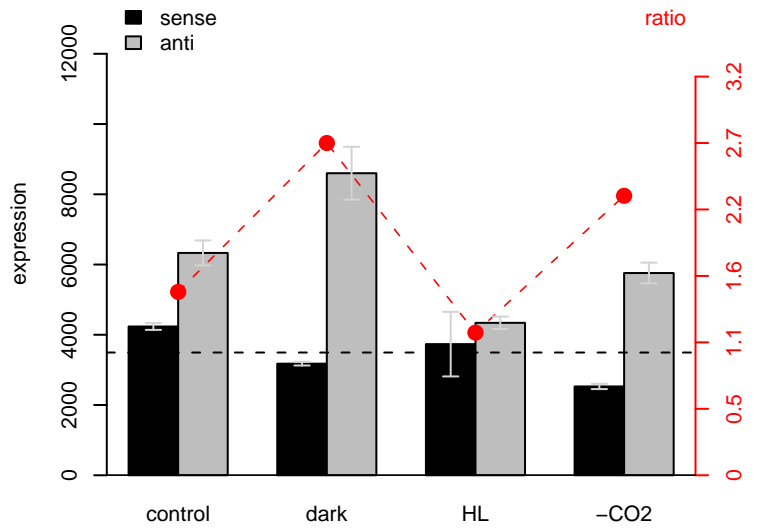
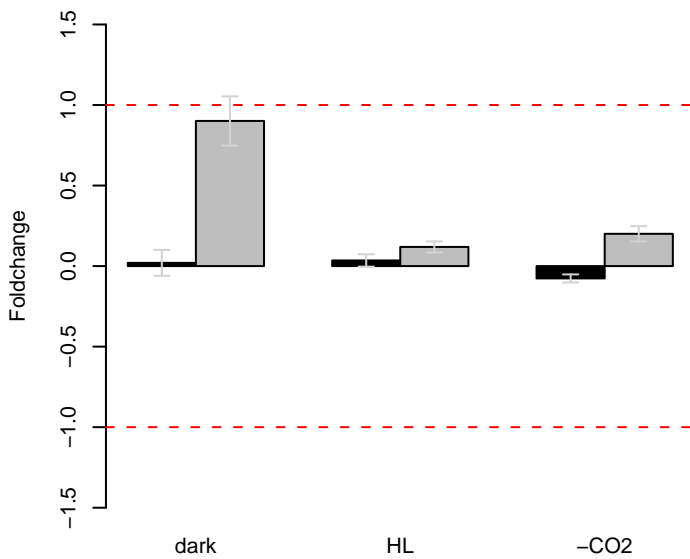
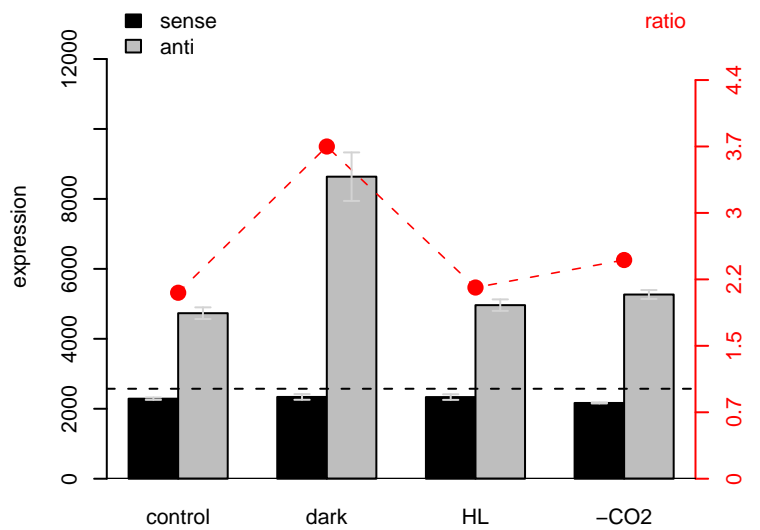
**slr0197****genome\_3877****slr0197****genome\_3877****slr0199****genome\_3881**

**sli0182****genome\_3888****sli1654****genome\_388****sli0182****genome\_3888**

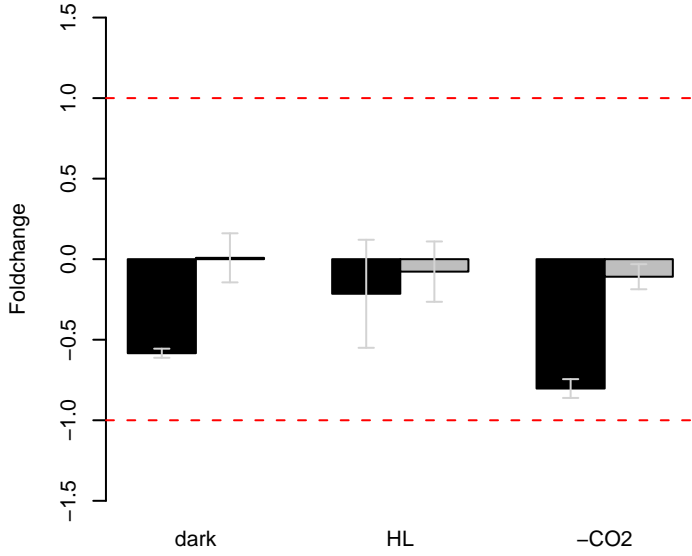


**slr0180****genome\_3895****slr0207****genome\_3902****slr0208****genome\_3904**

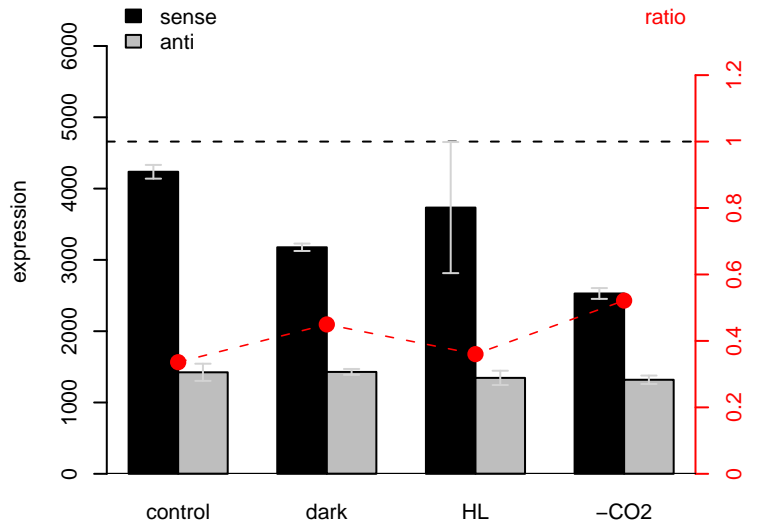
**slr0211****genome\_3912****slr0895****genome\_3927****slr0897****genome\_3931**

**slr0897****genome\_3931****moeA(slr0900)****genome\_3938****slr1290****genome\_393**

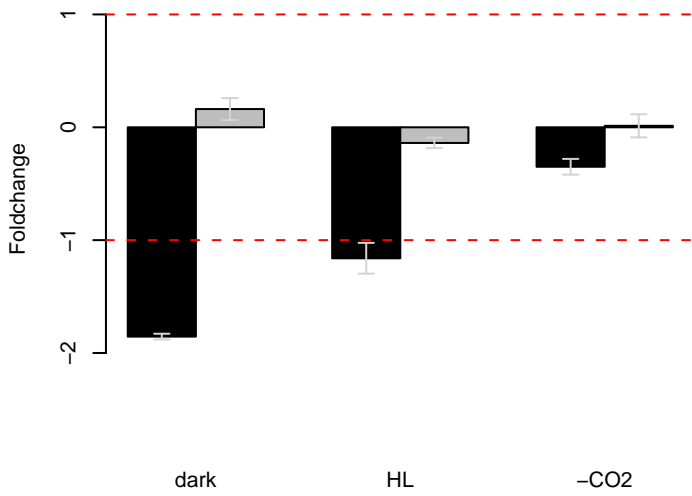
**moeA(slr0900)**



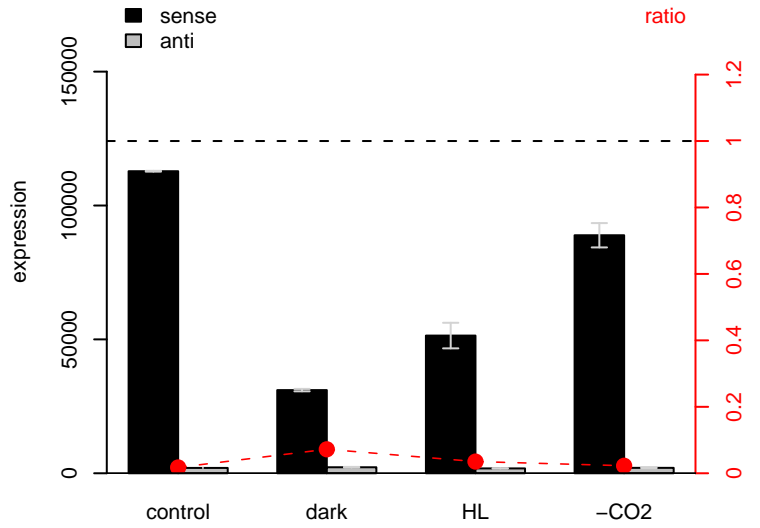
**genome\_3938**



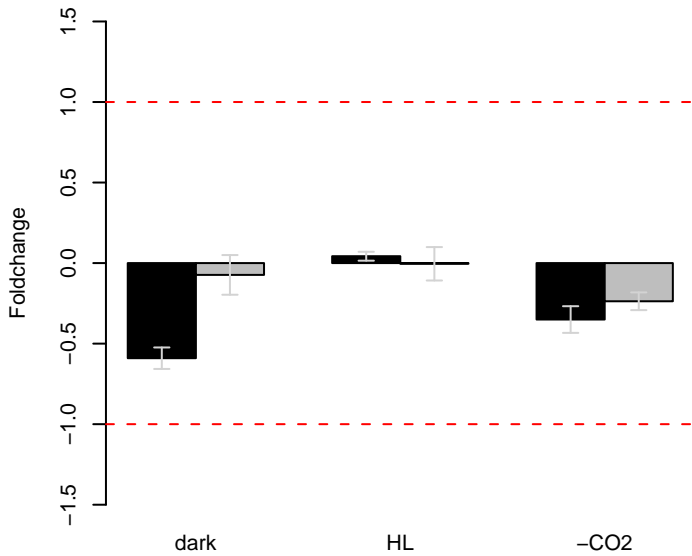
**psbB(slr0906)**



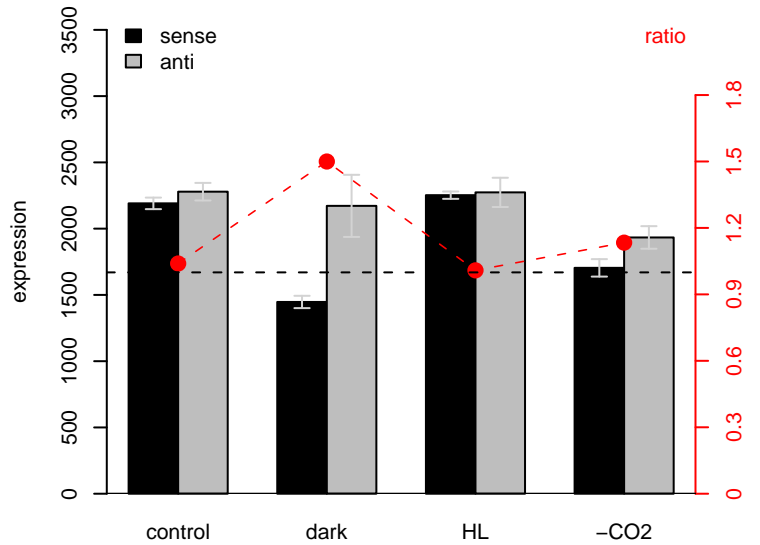
**genome\_3949**

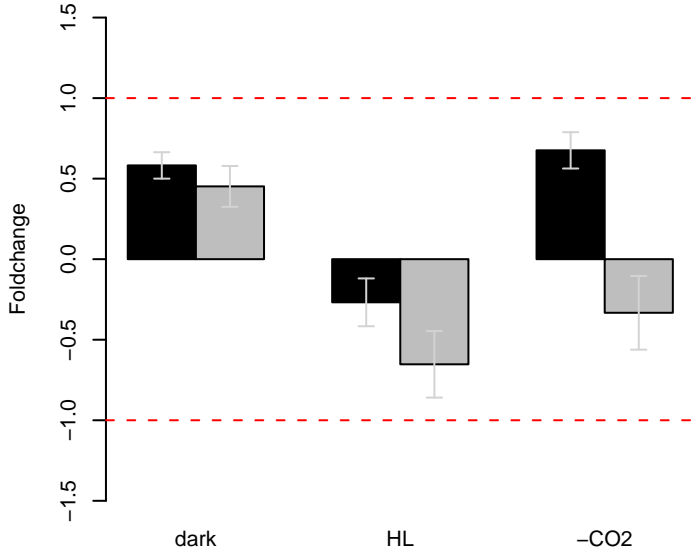
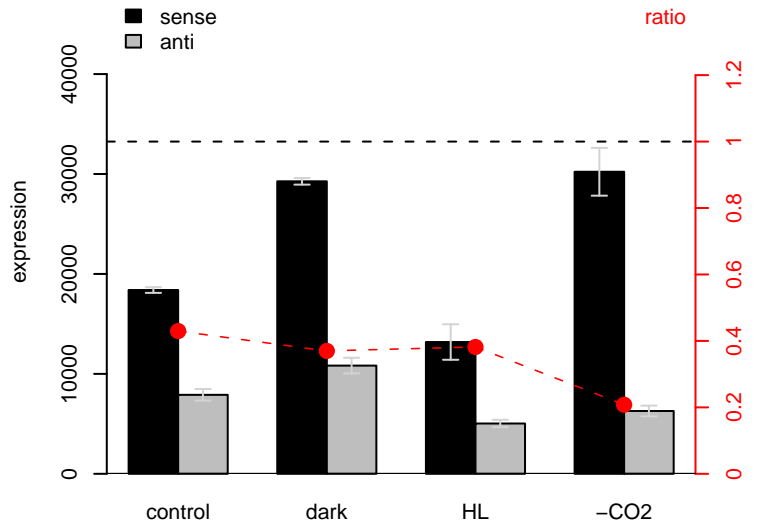
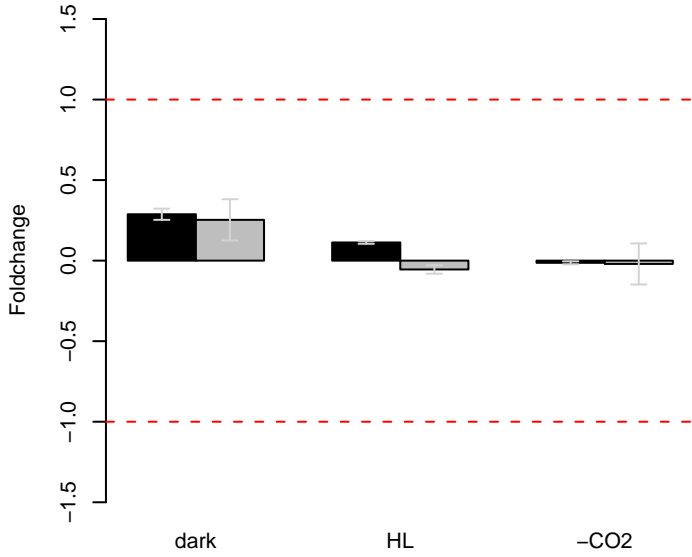
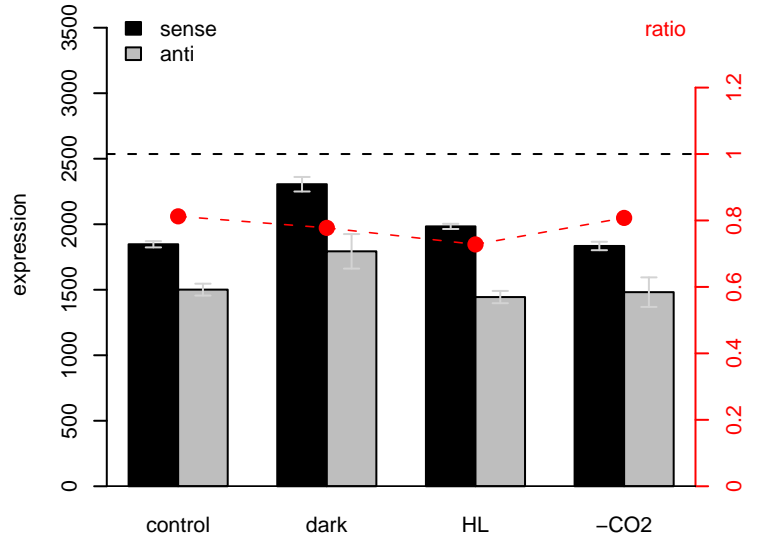
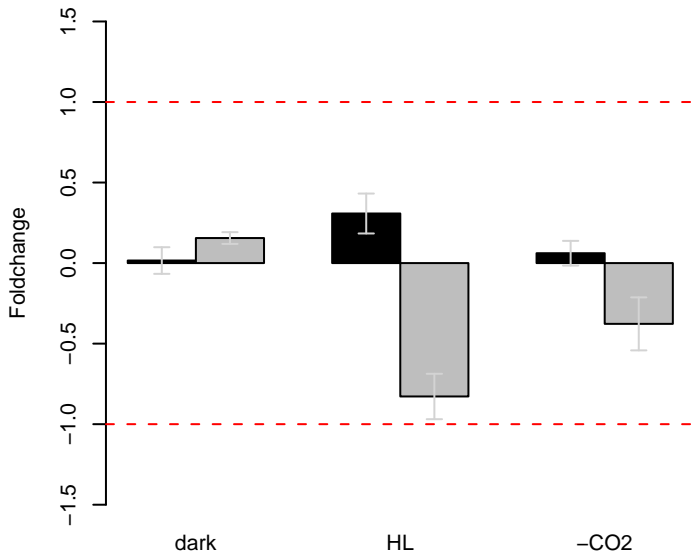
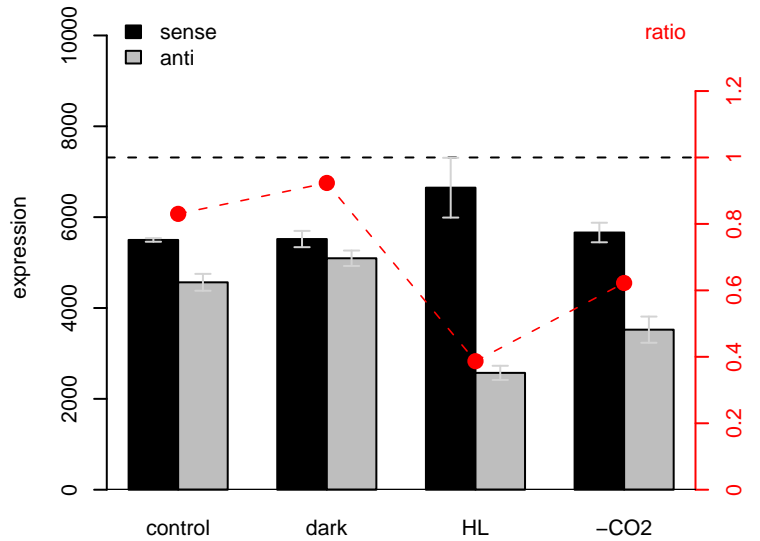


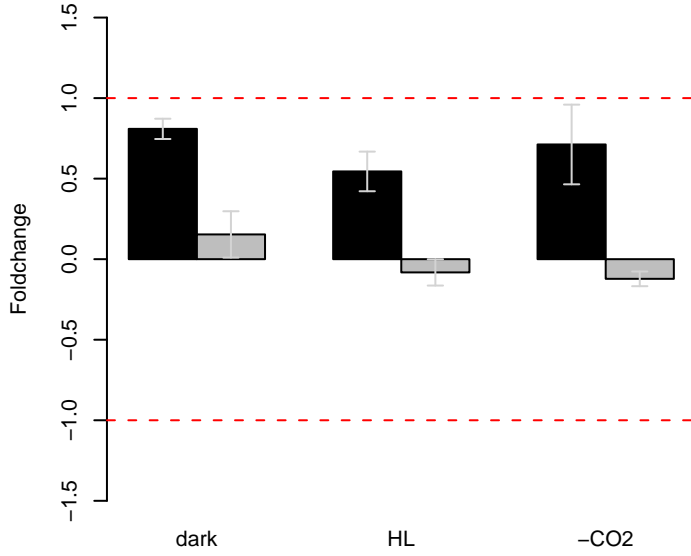
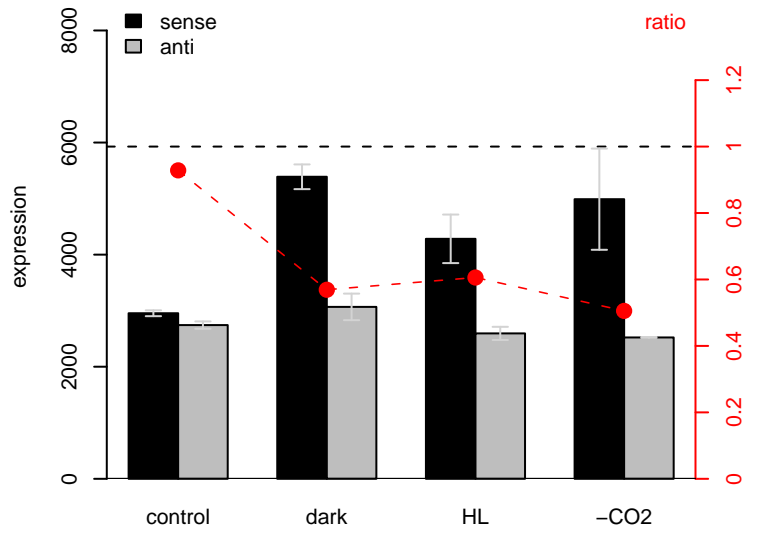
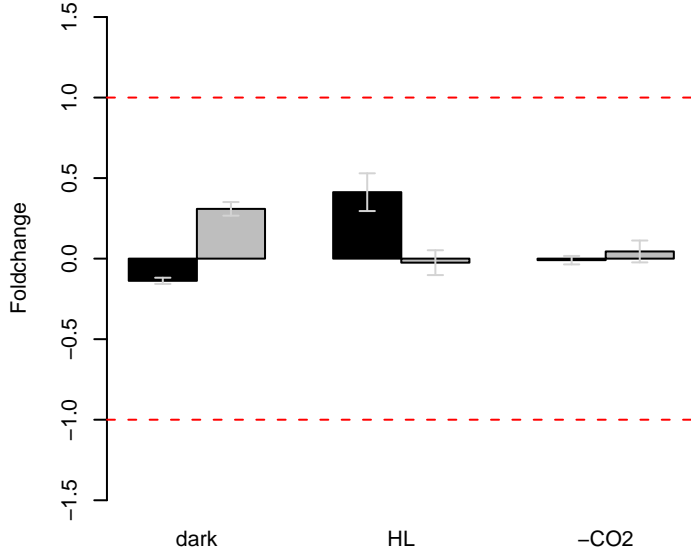
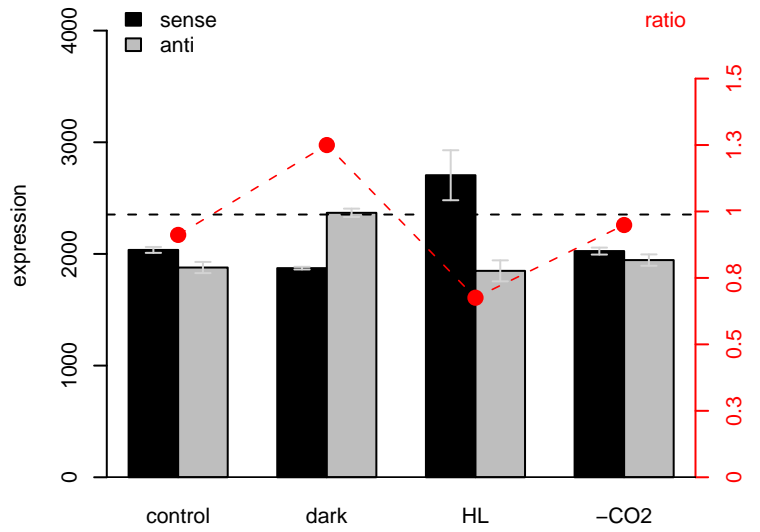
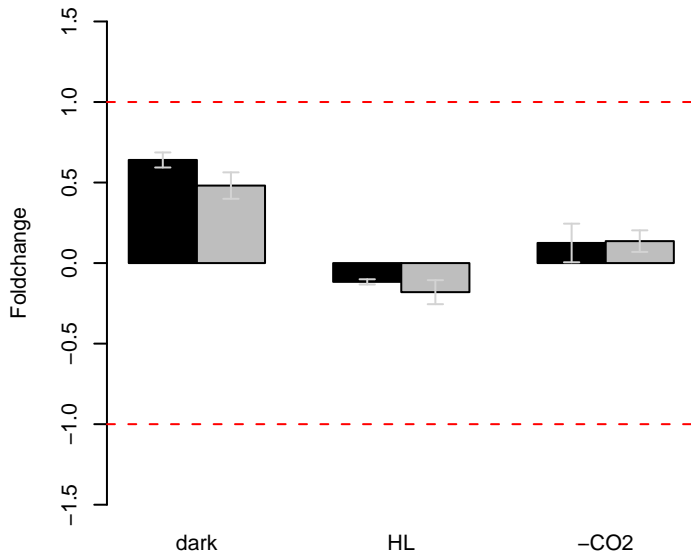
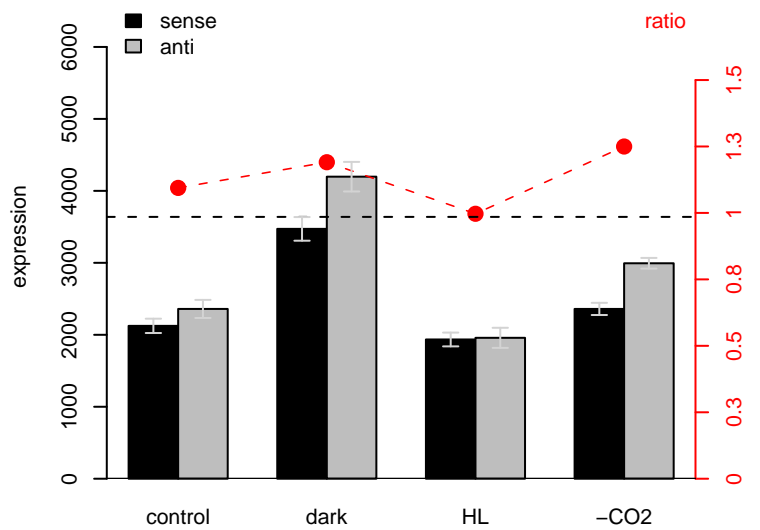
**slr0913**

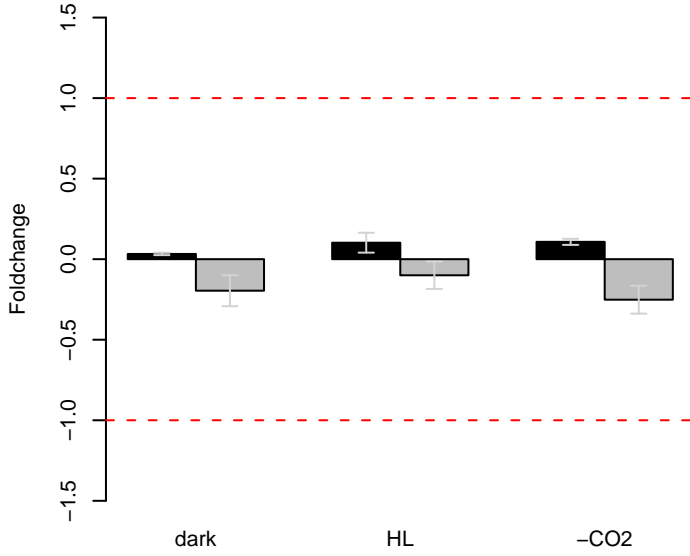
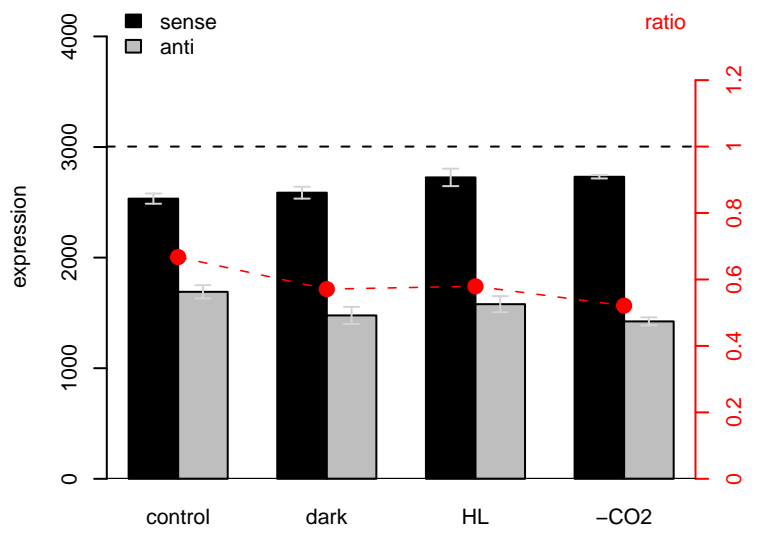
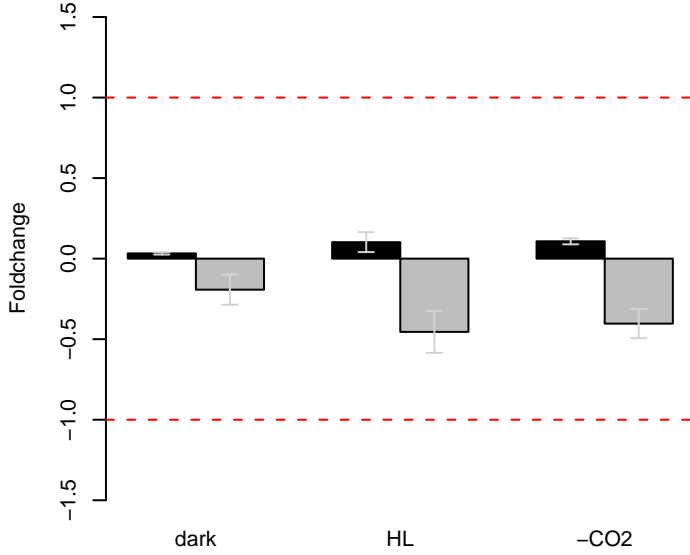
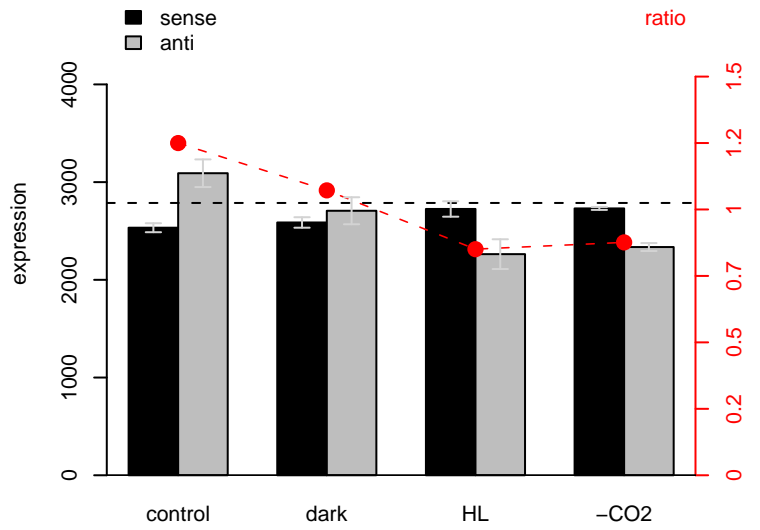
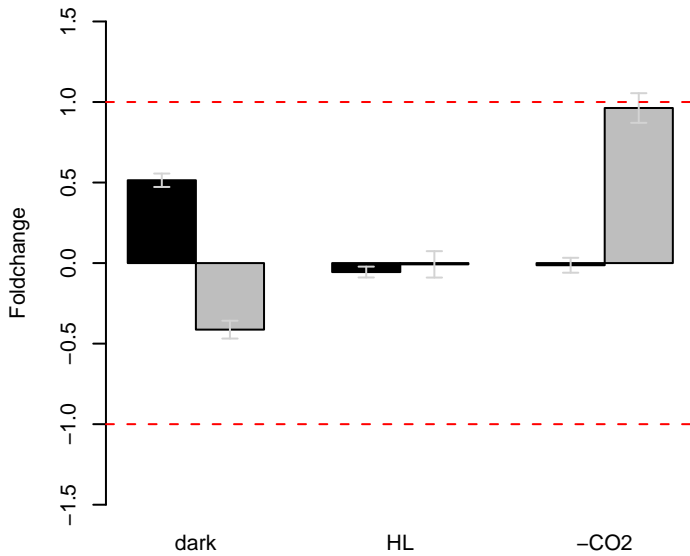
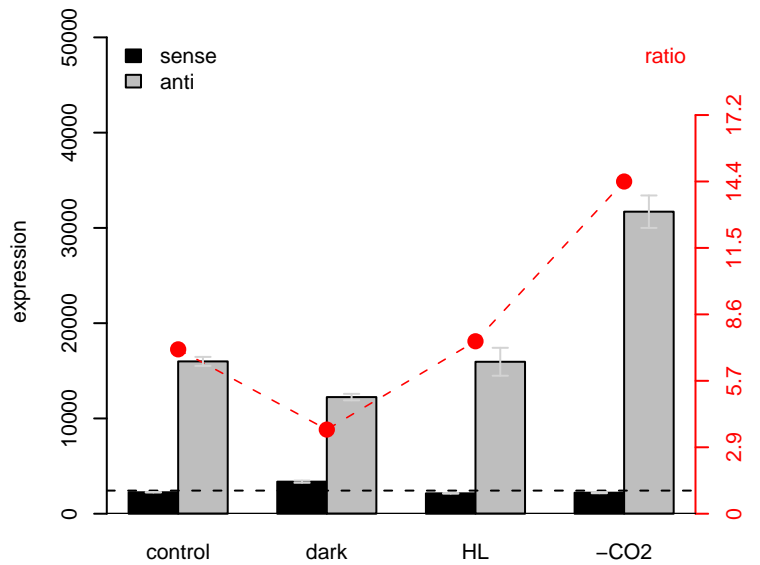


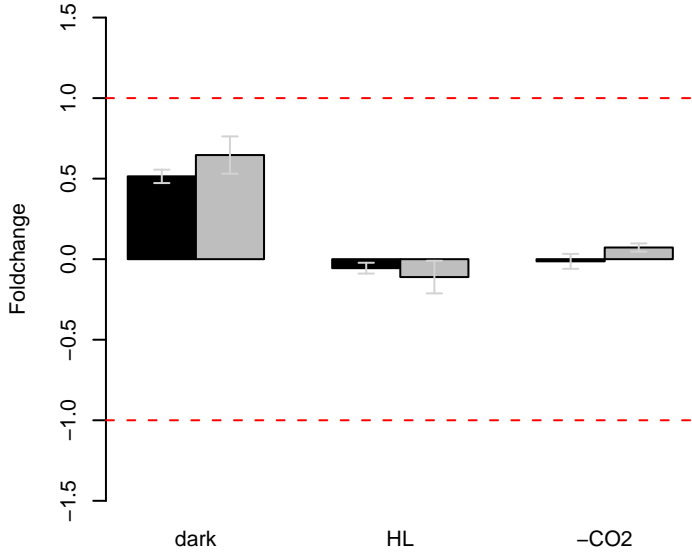
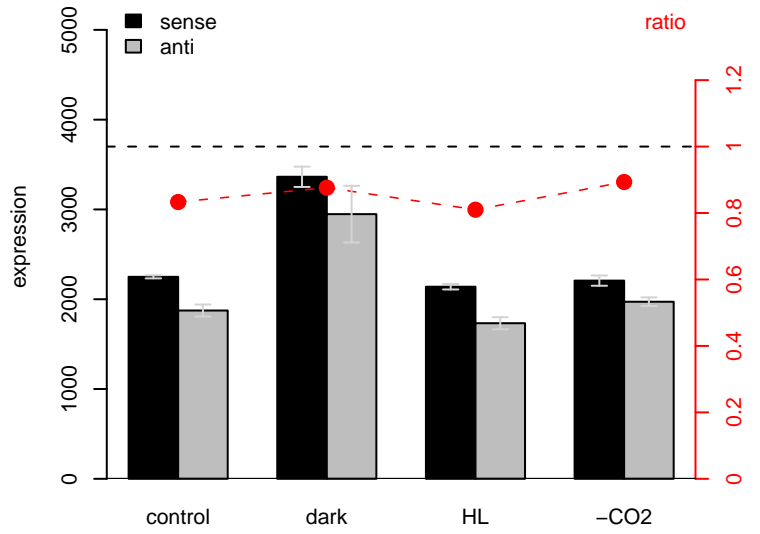
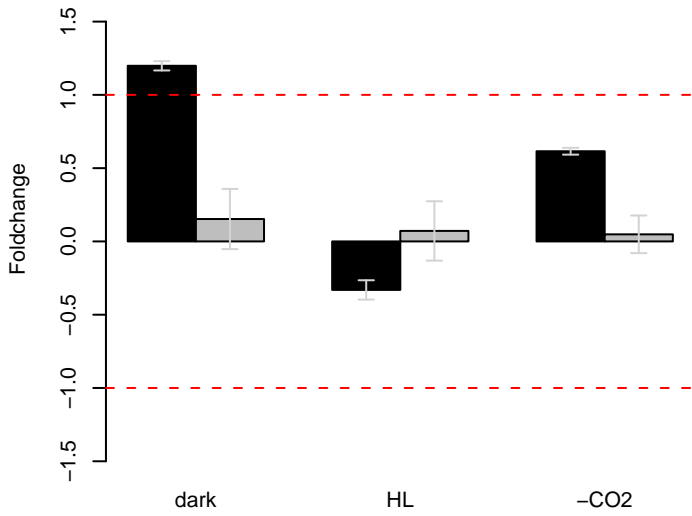
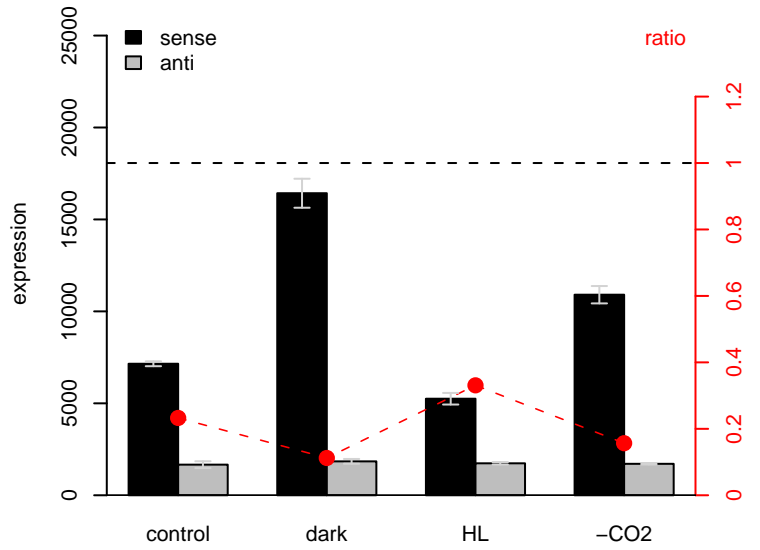
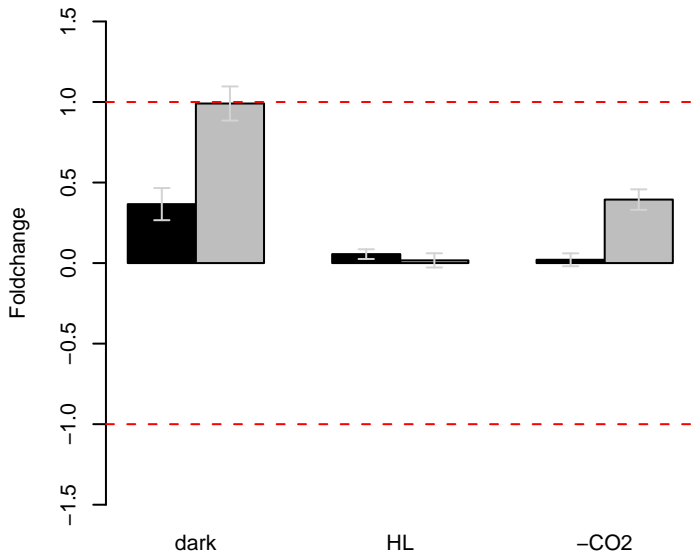
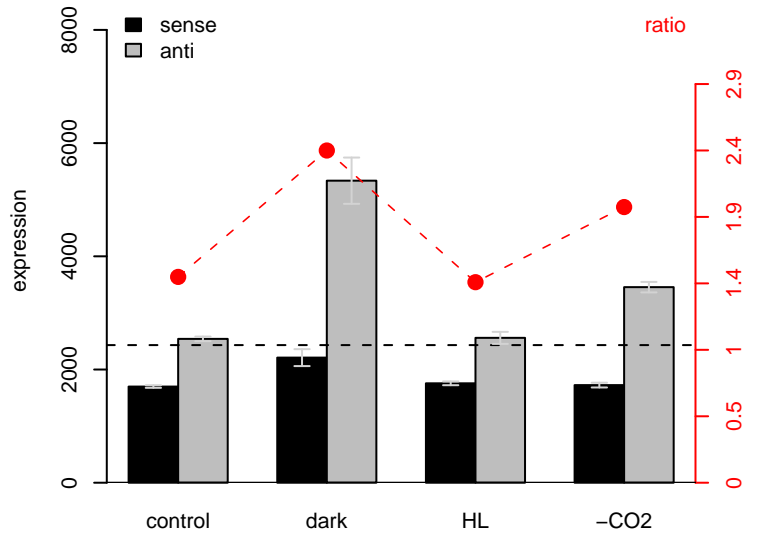
**genome\_3955**



**sll1201****genome\_395****bioF(slr0917)****genome\_3959****ftrC(sll0554)****genome\_3979**

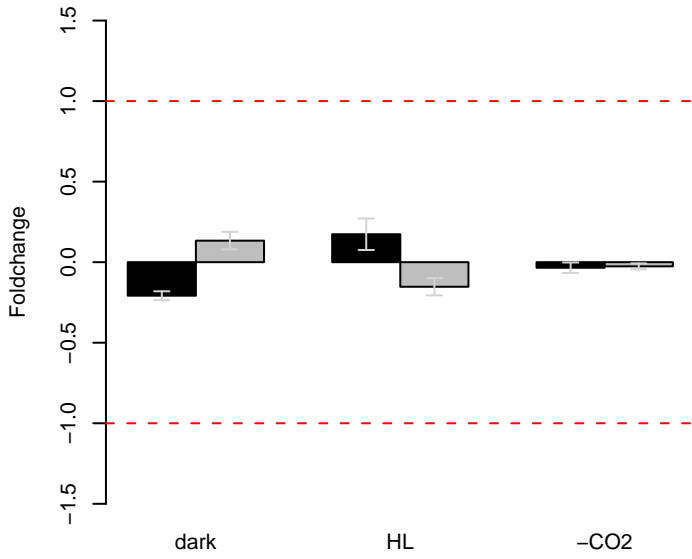
**sli0549****genome\_3985****sli0545****genome\_3992****slr1484****genome\_39**

**slr0575****genome\_4004****slr0575****genome\_4004****slr0580****genome\_4010**

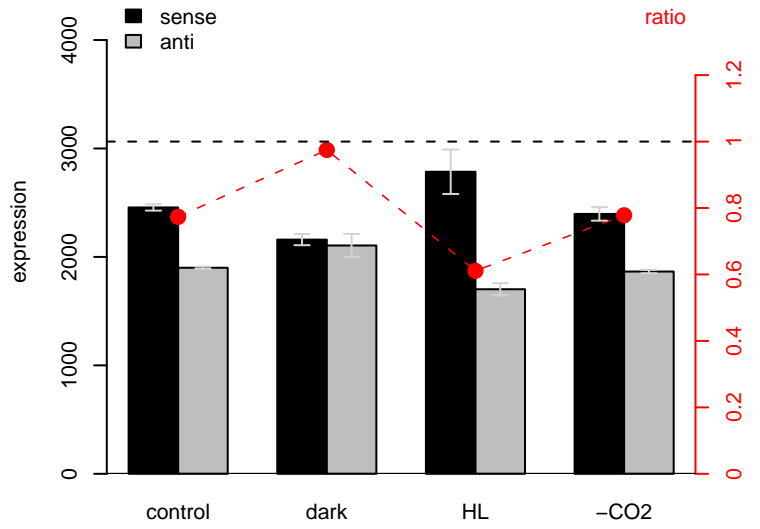
**slr0580****genome\_4010****slr0582****genome\_4014****slr0540****genome\_4016**



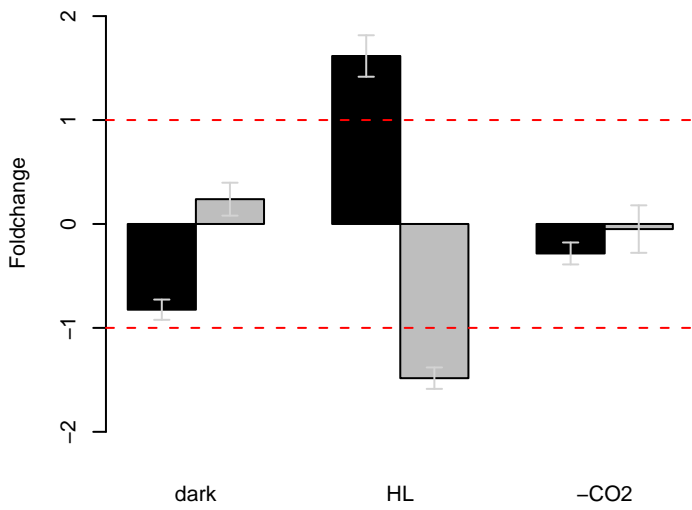
**slr0825**



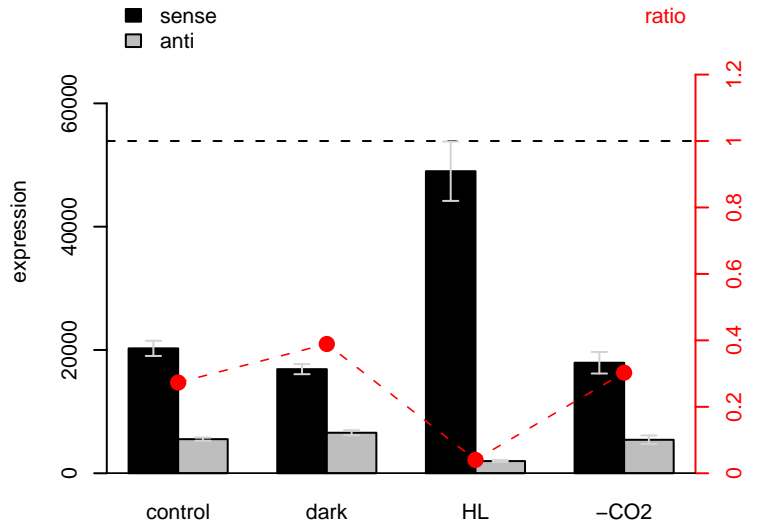
**genome\_4020**



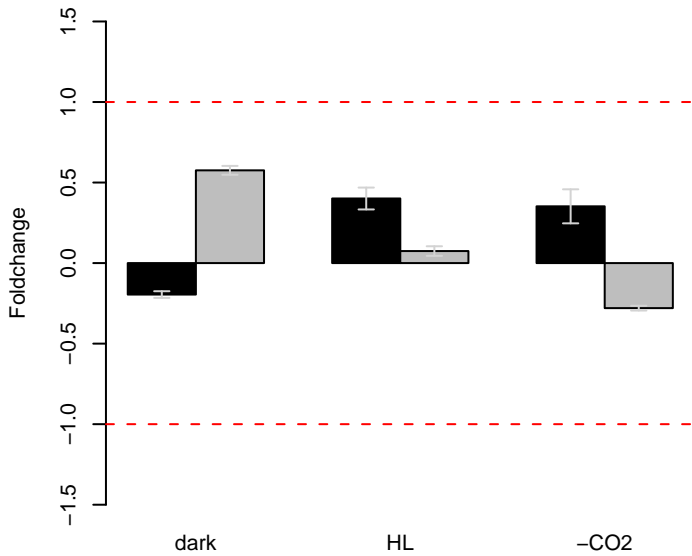
**rpsR(ssr1399)**



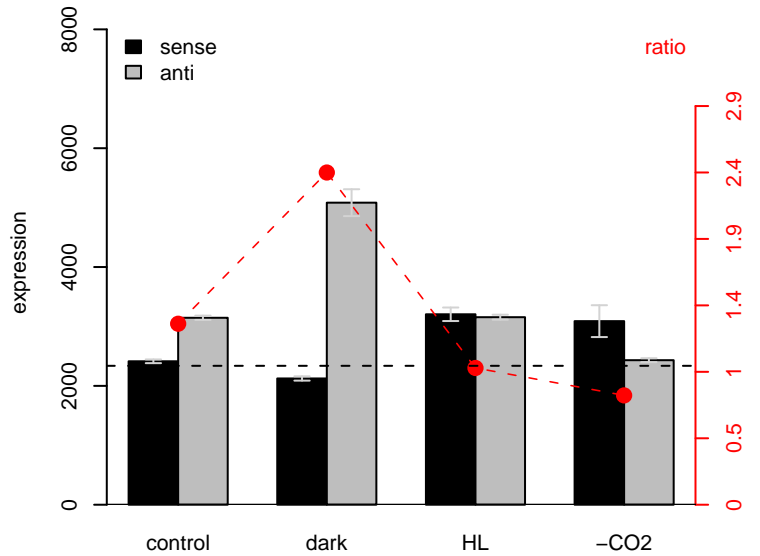
**genome\_4023**

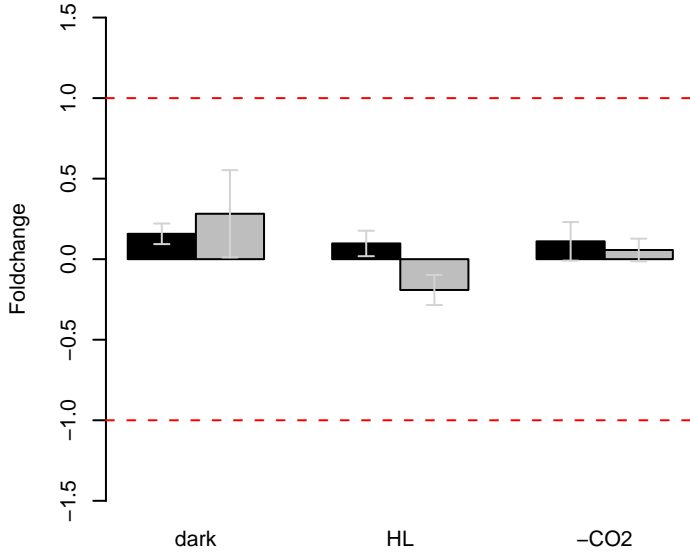
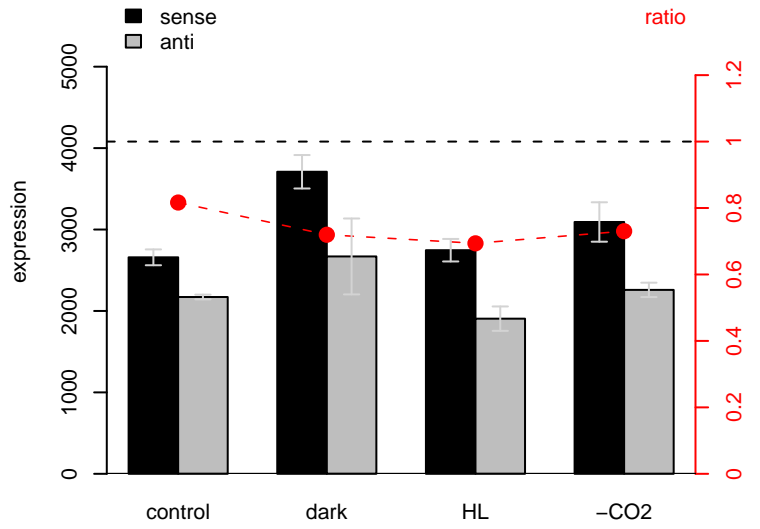
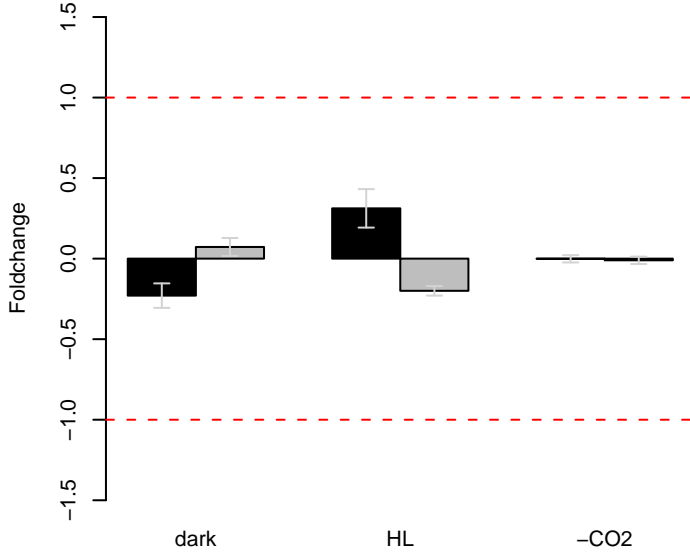
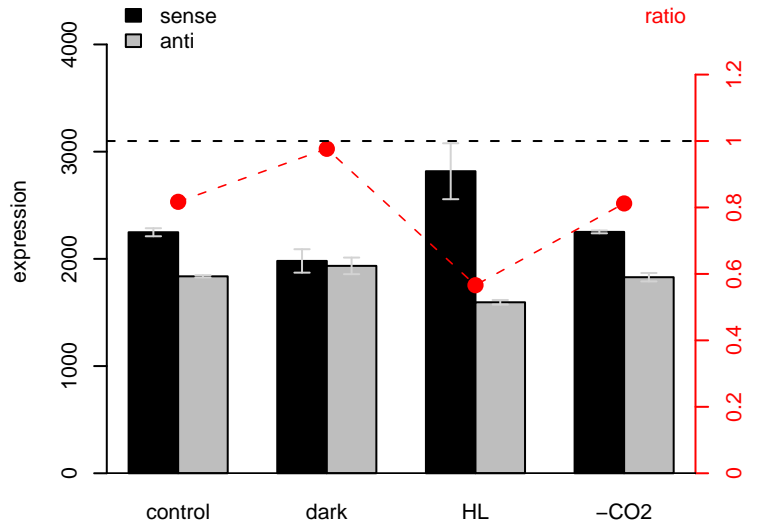
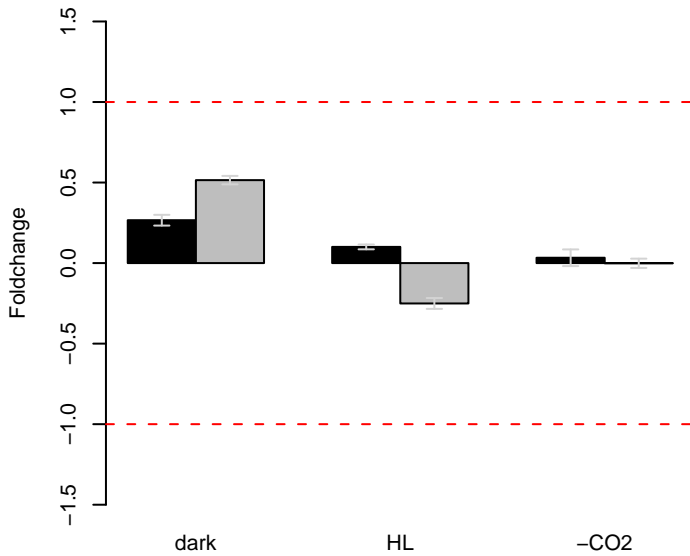
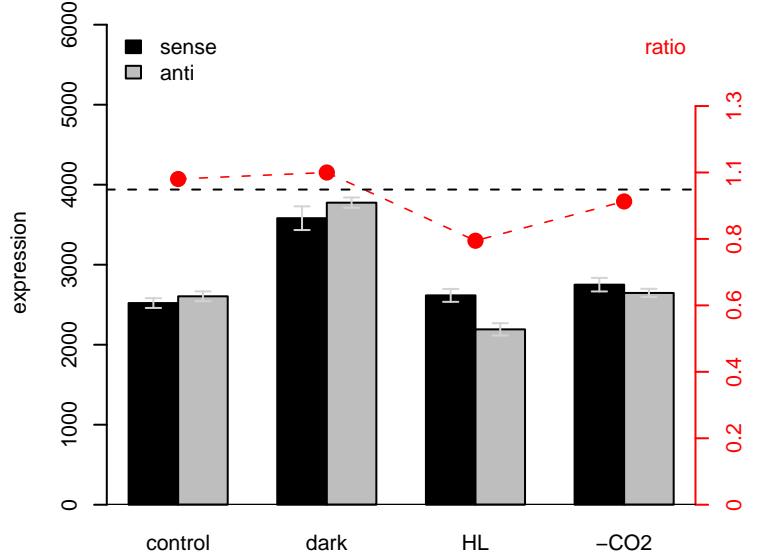


**alr(slr0827)**

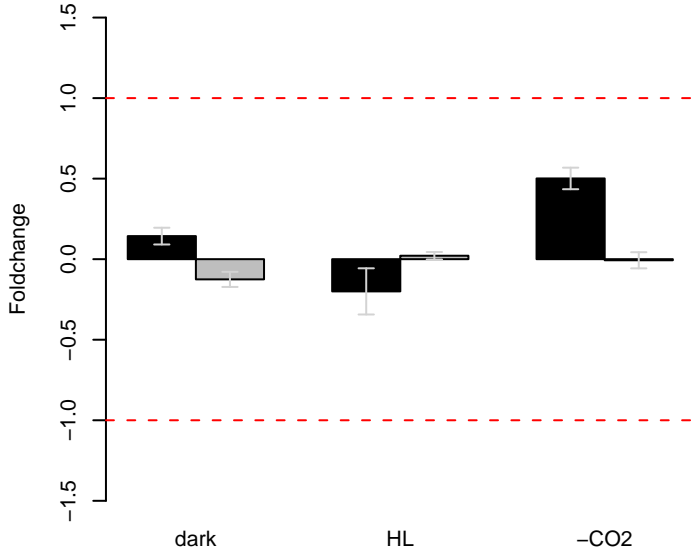


**genome\_4025**

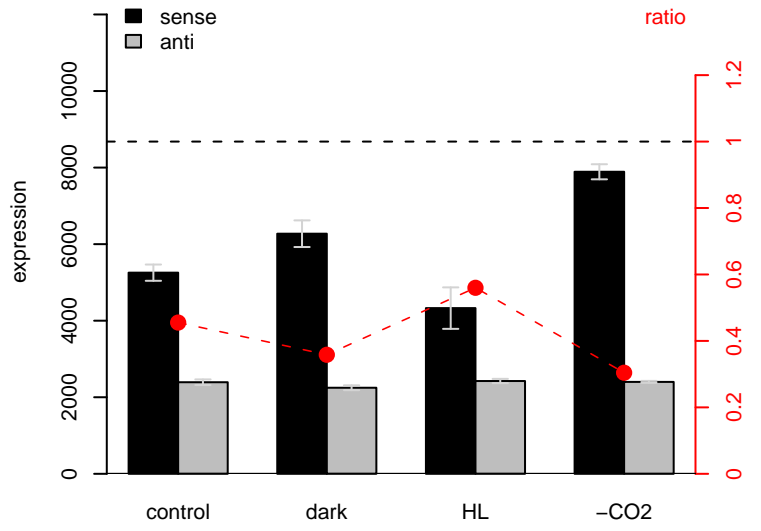


**dnaB(slr0833)****genome\_4034****moxR(slr0835)****genome\_4036****rfbB(slr0836)****genome\_4038**

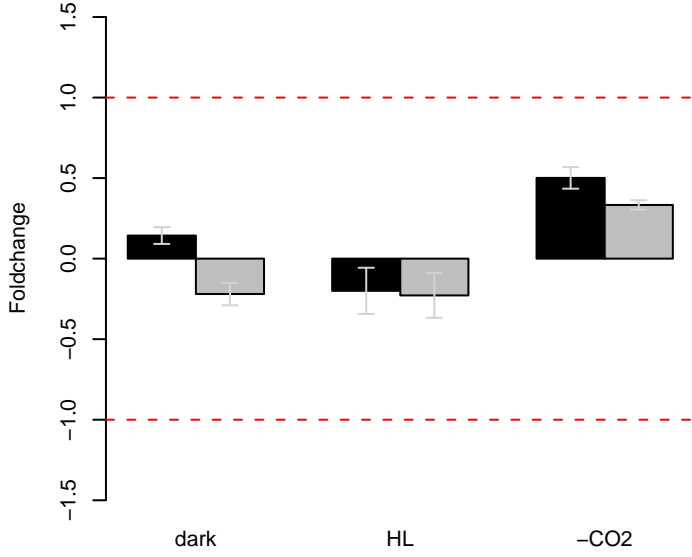
**rapQ(sll0829)**



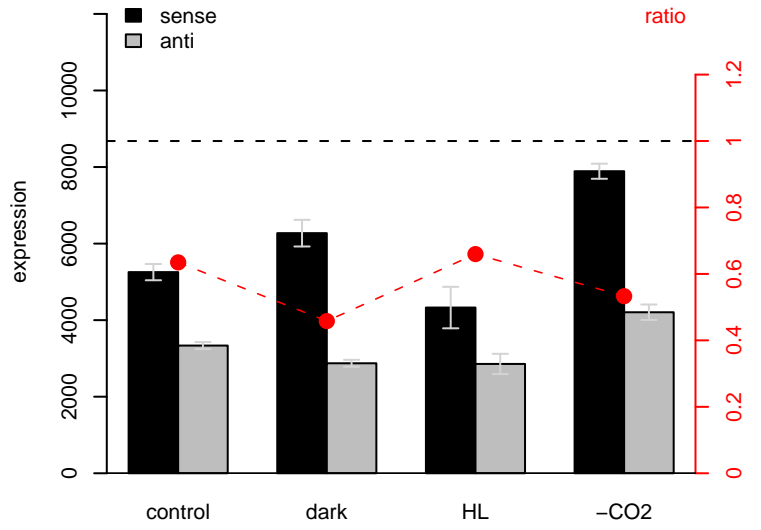
**genome\_4045**



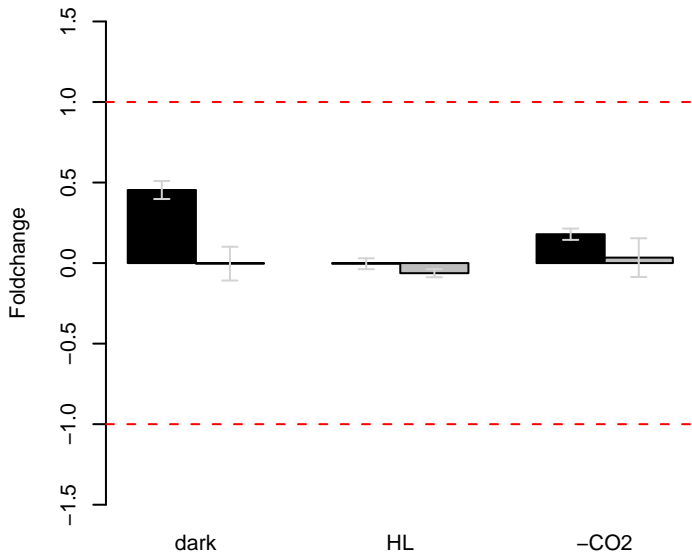
**rapQ(sll0829)**



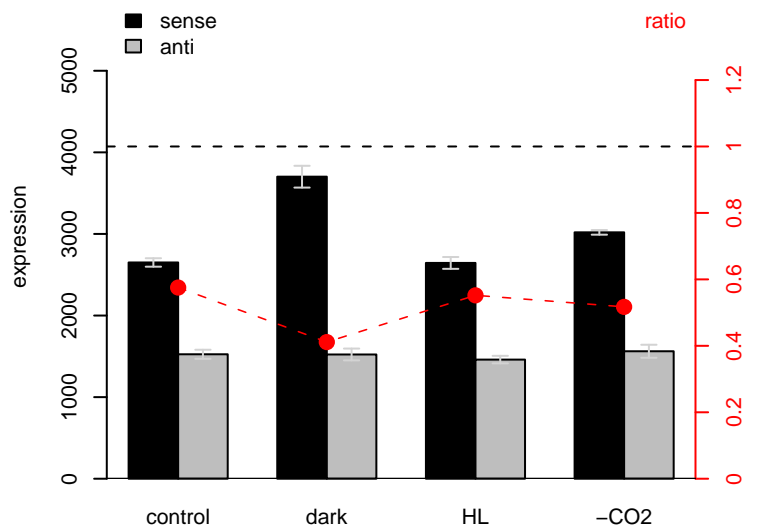
**genome\_4045**



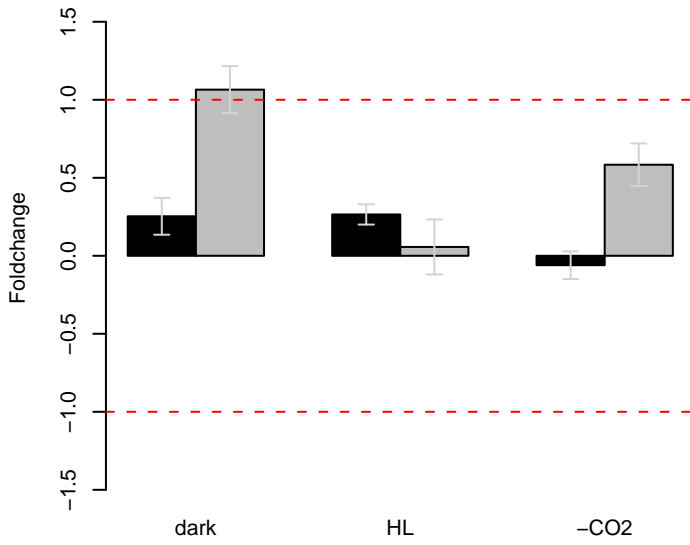
**slr0841**



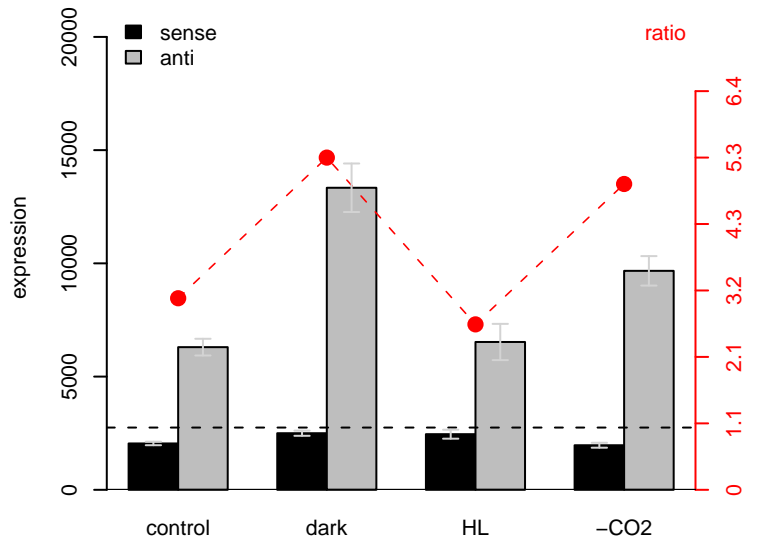
**genome\_4050**



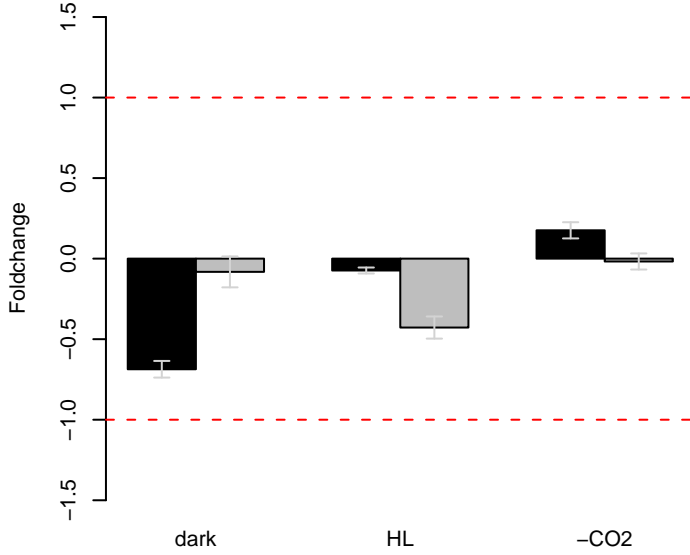
**pcnB(slr0825)**



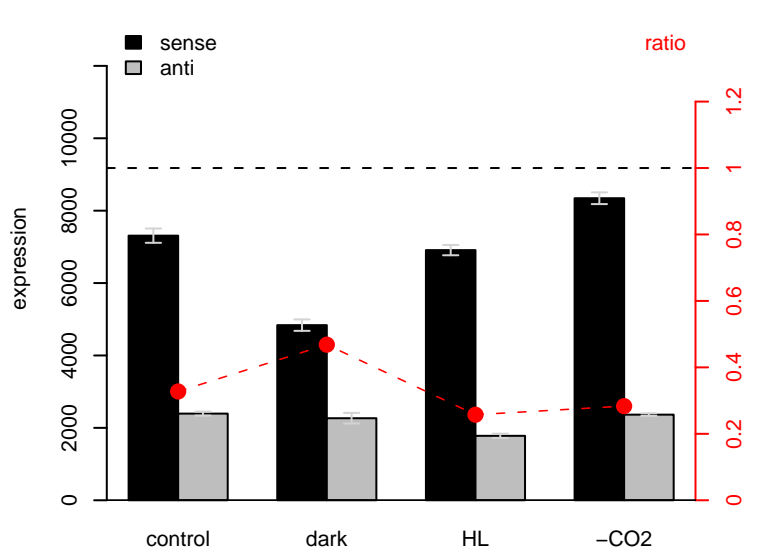
**genome\_4055**



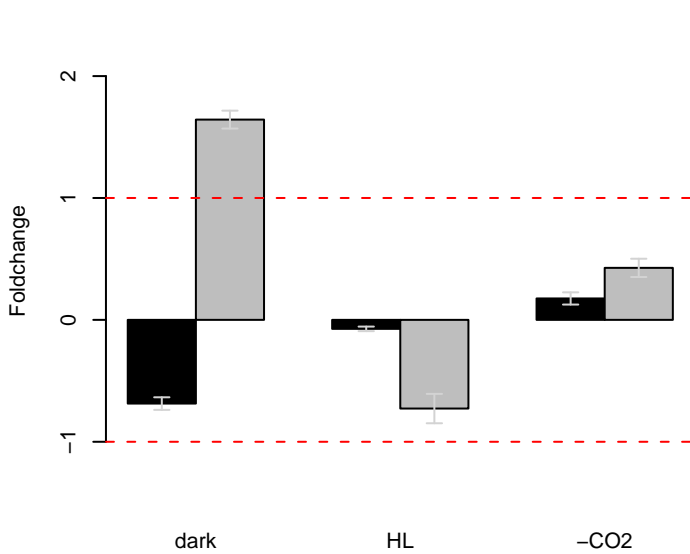
**ndhF(slr0844)**



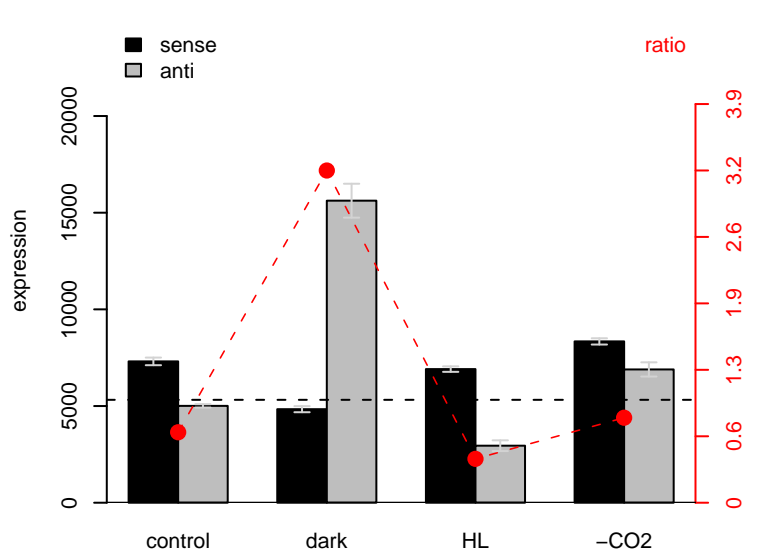
**genome\_4058**

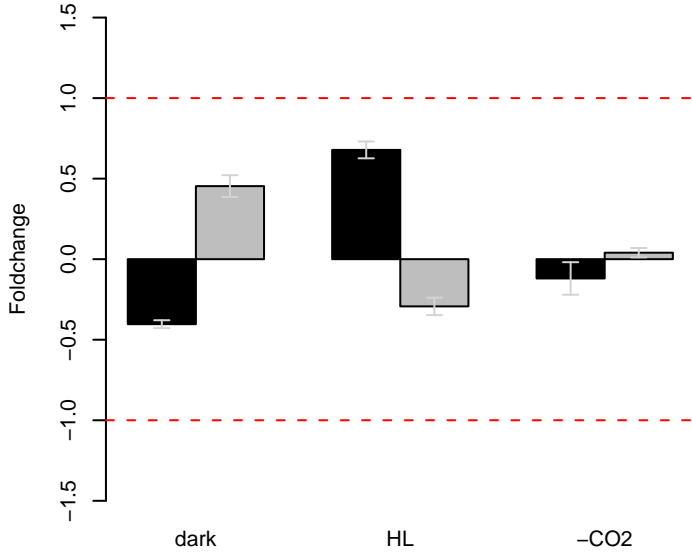
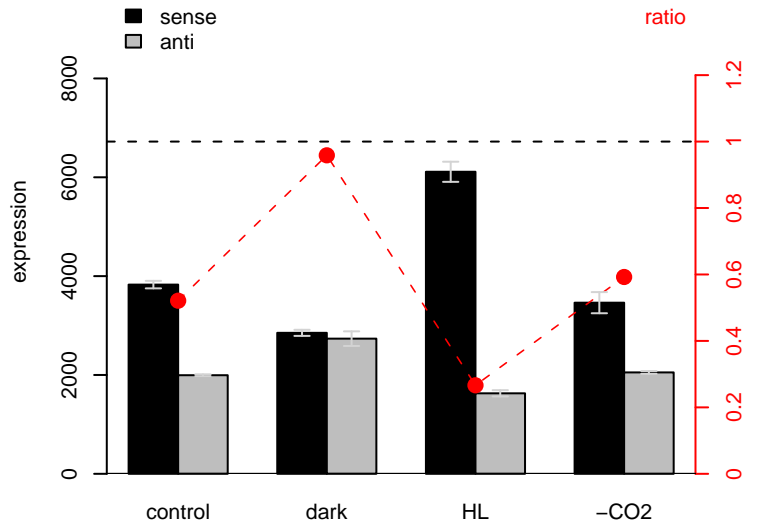
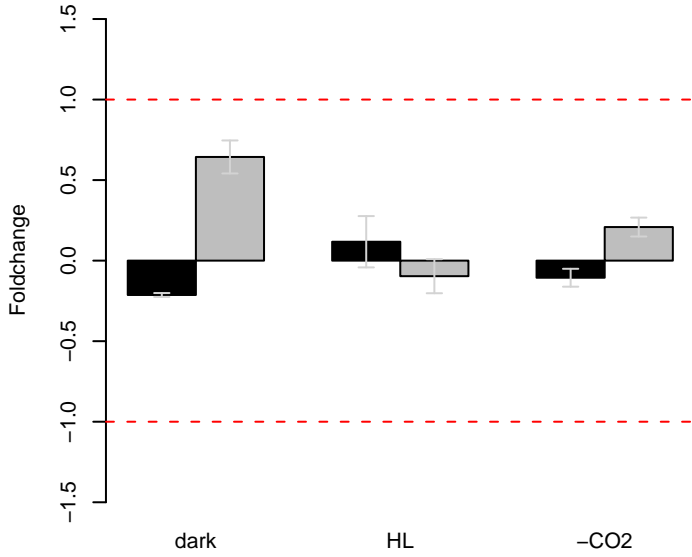
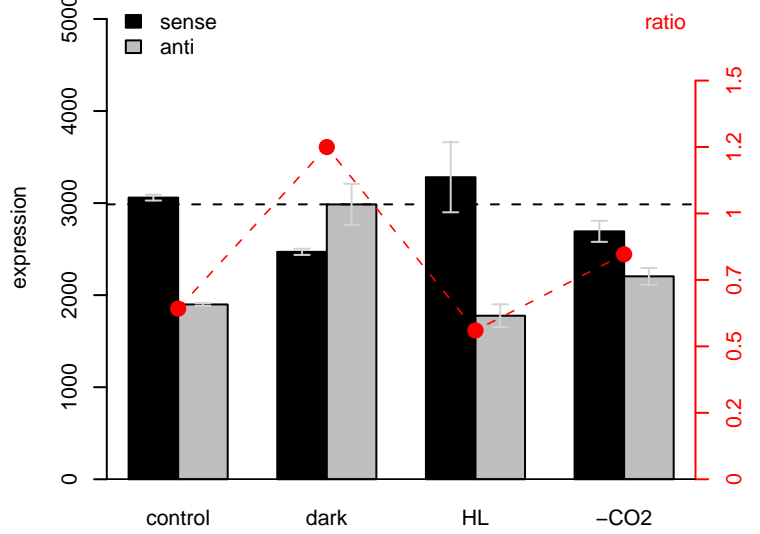
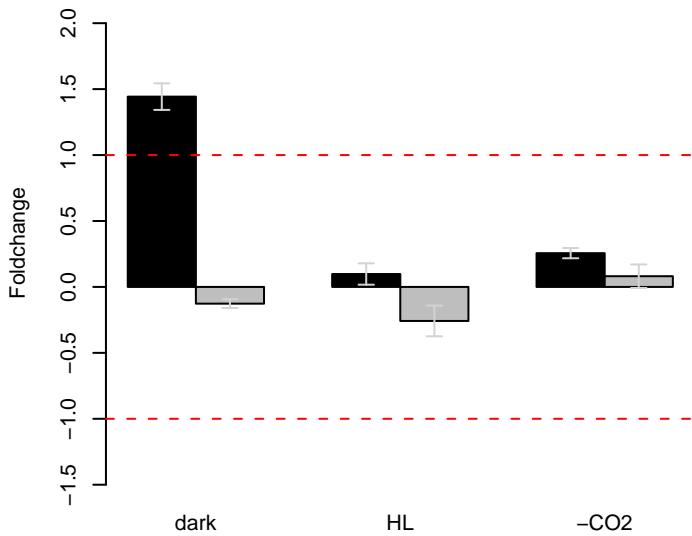
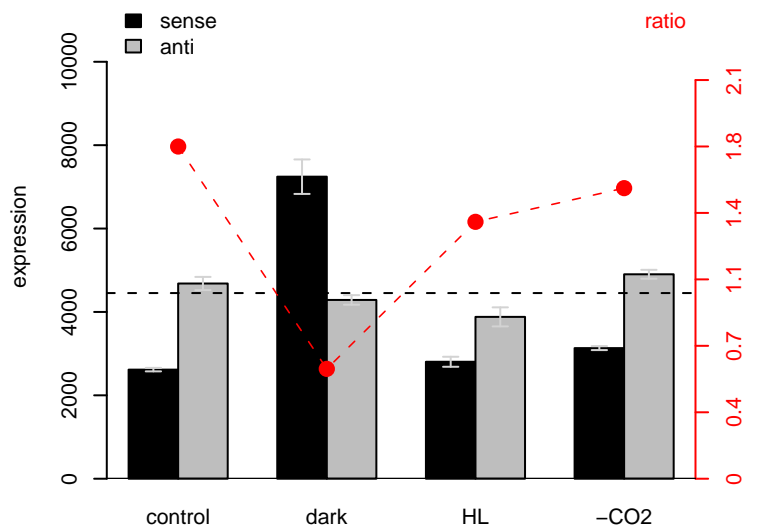


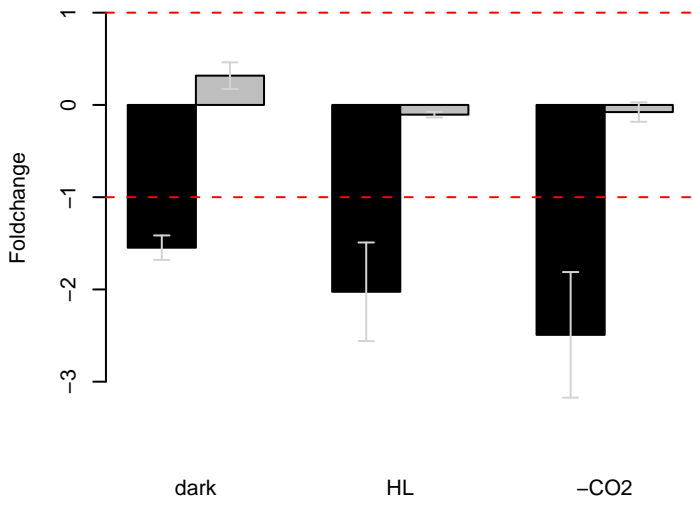
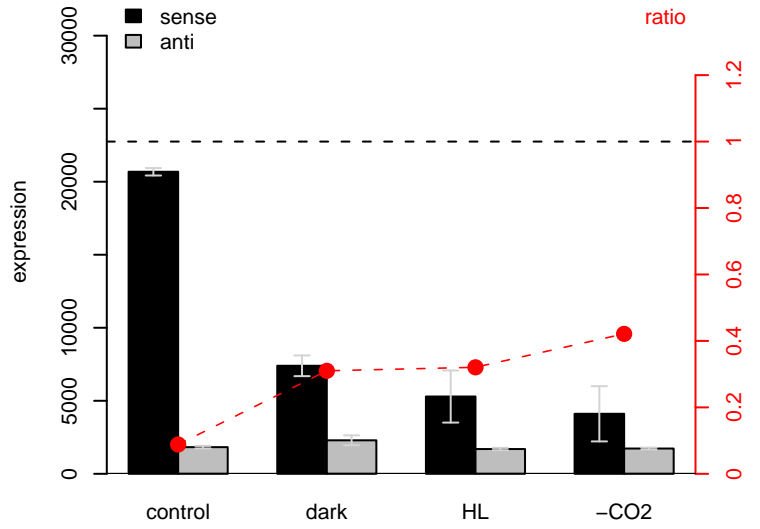
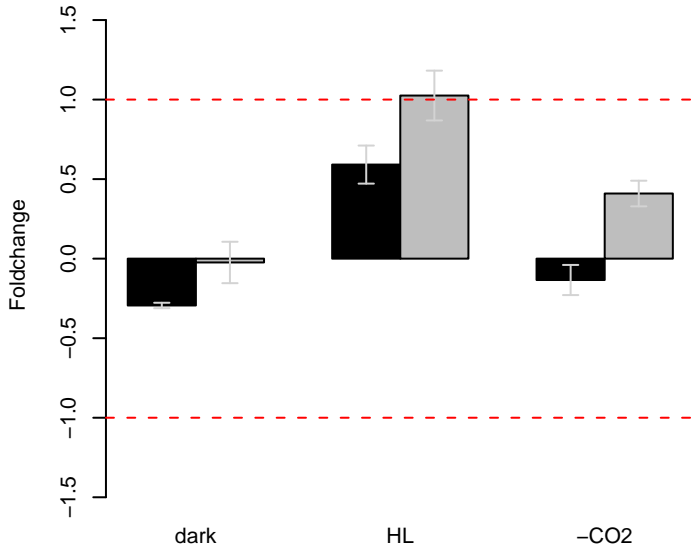
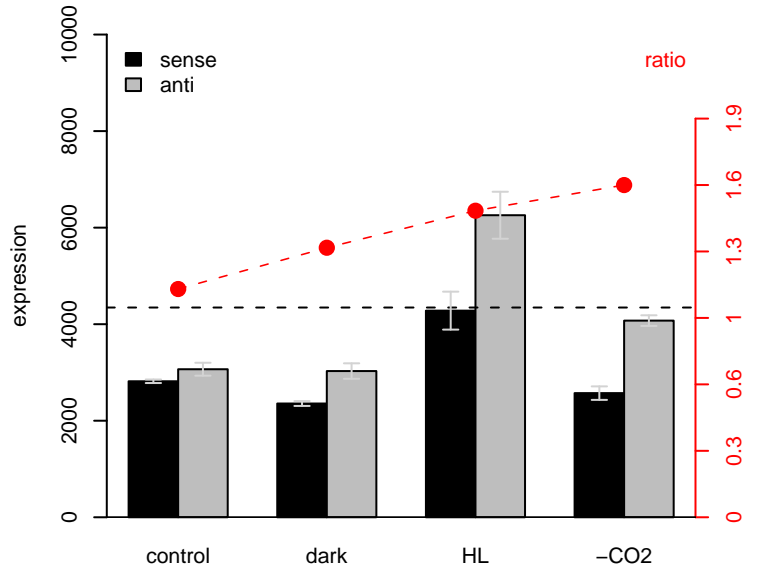
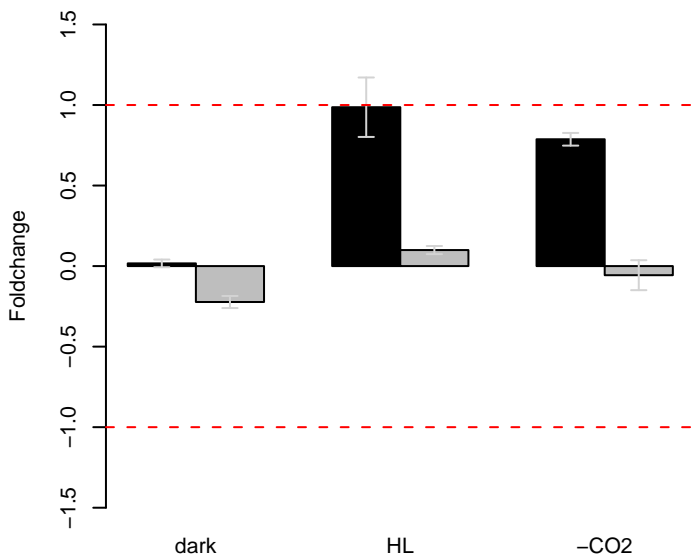
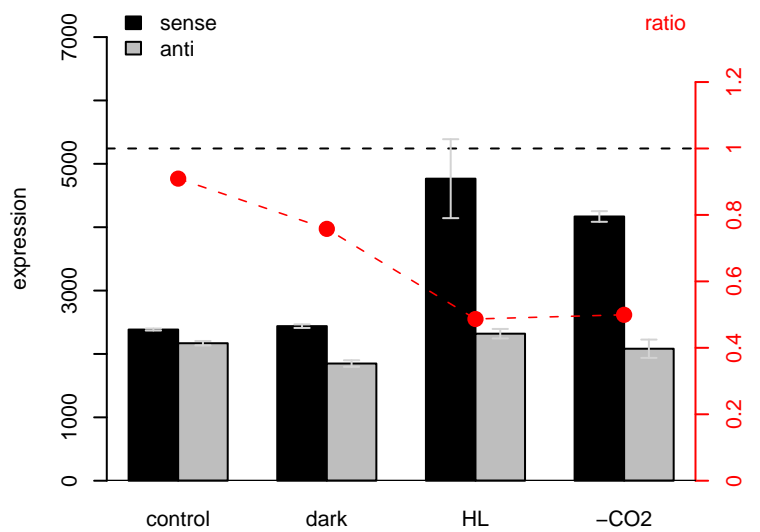
**ndhF(slr0844)**

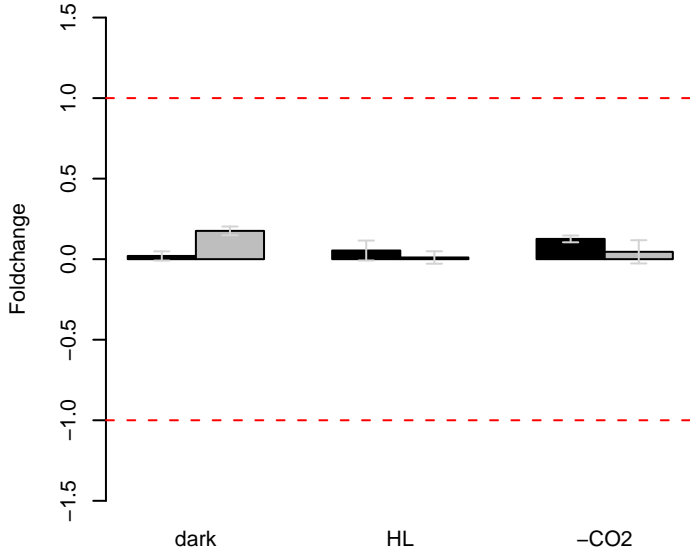
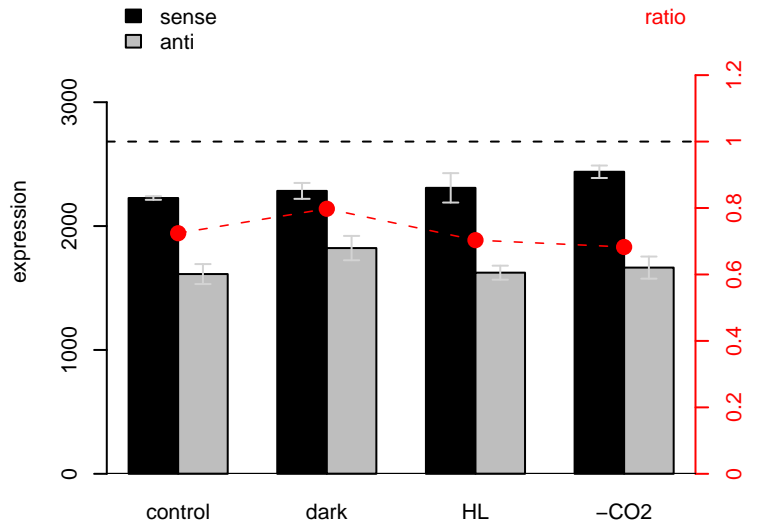
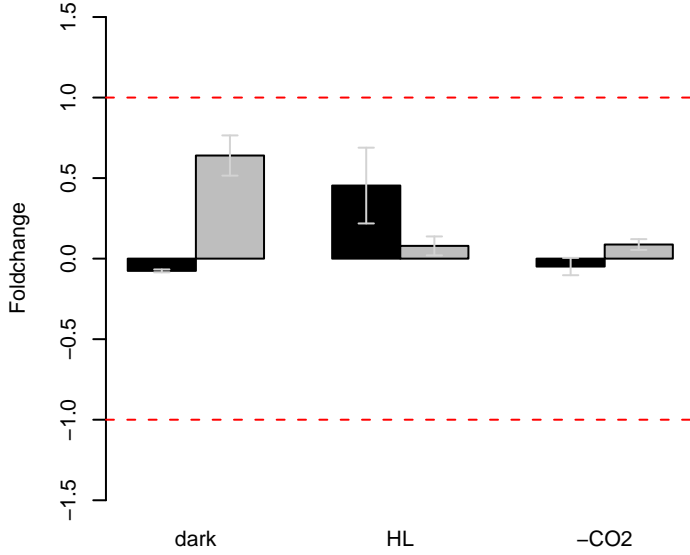
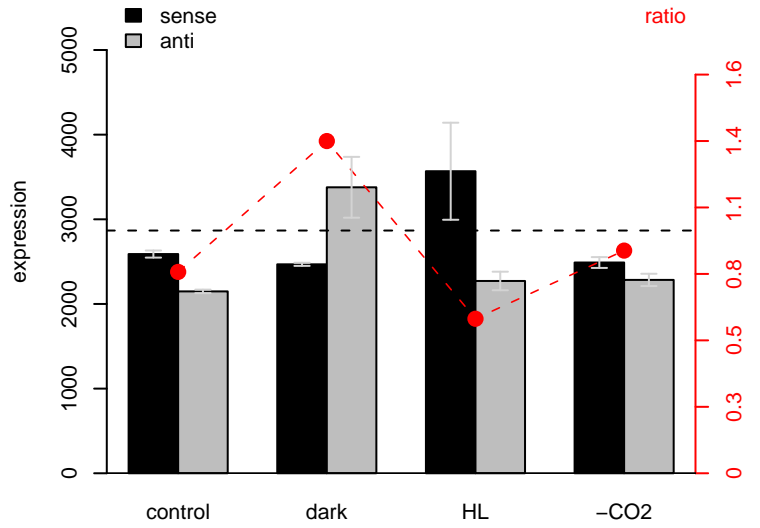
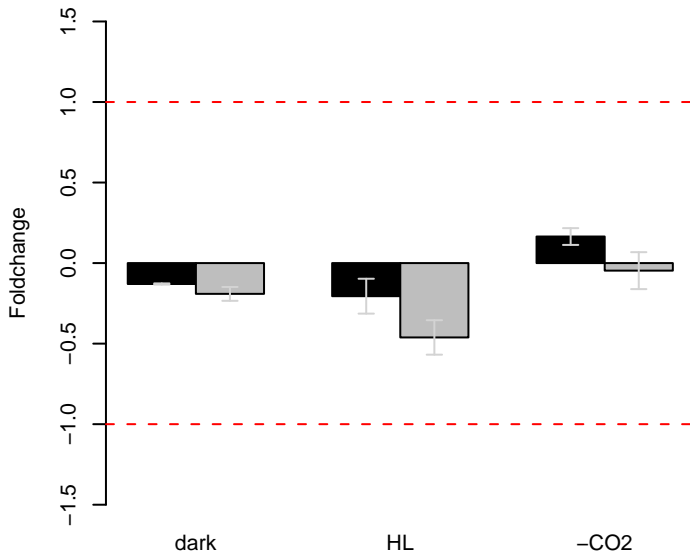
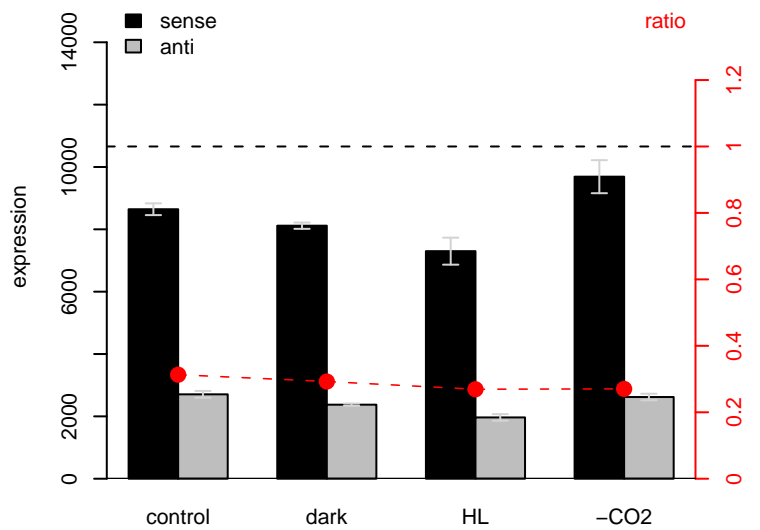


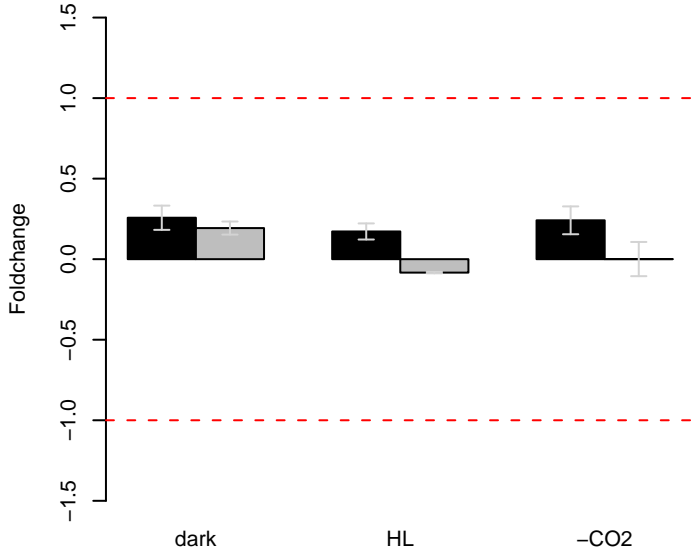
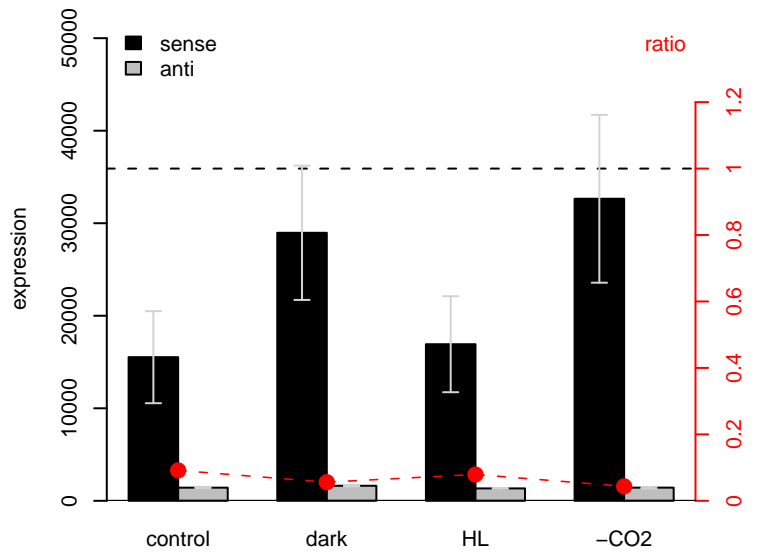
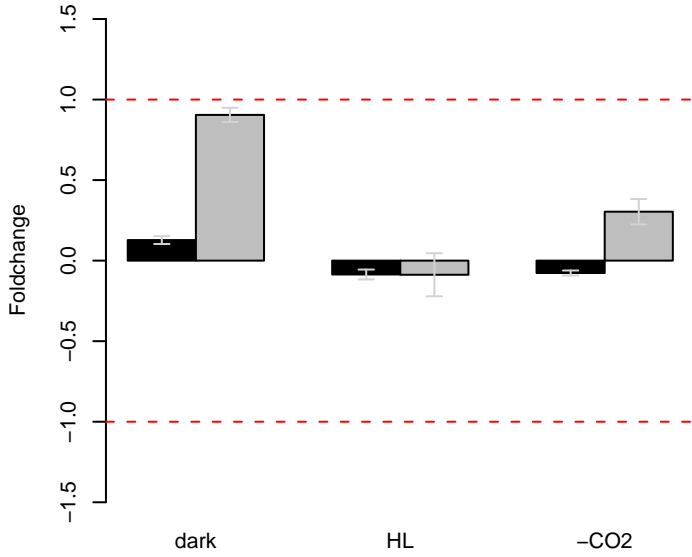
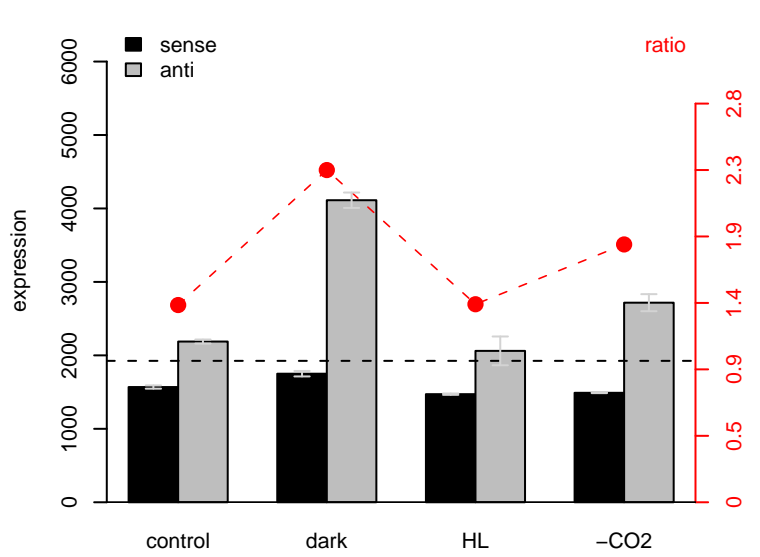
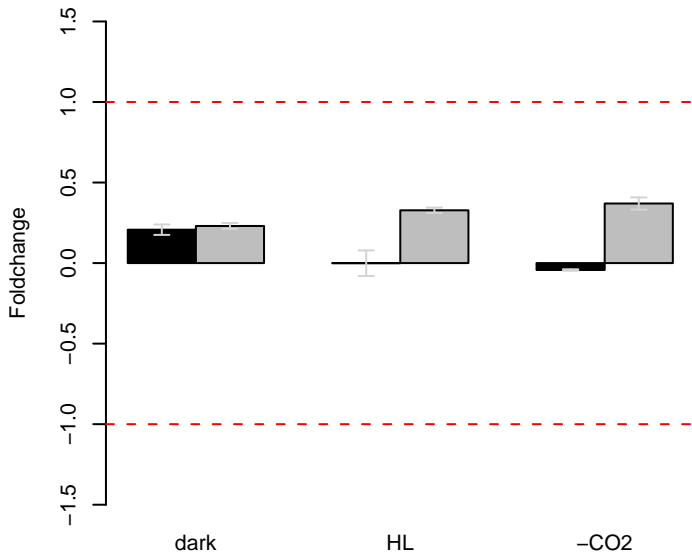
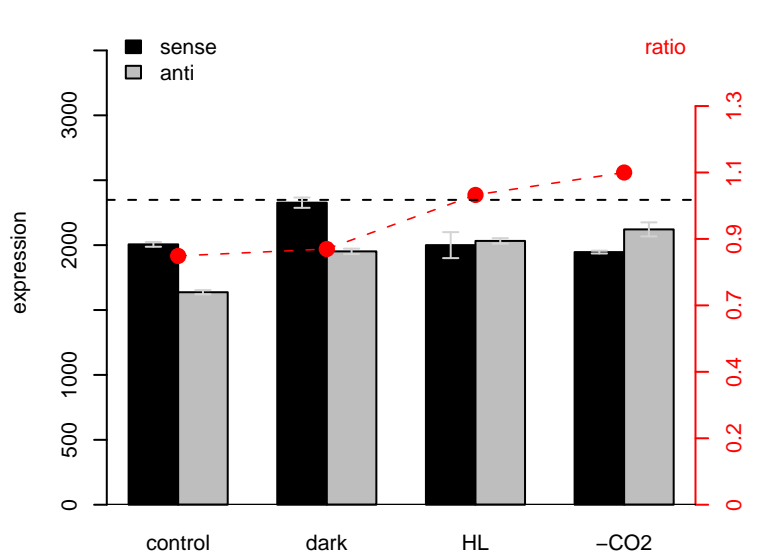
**genome\_4058**



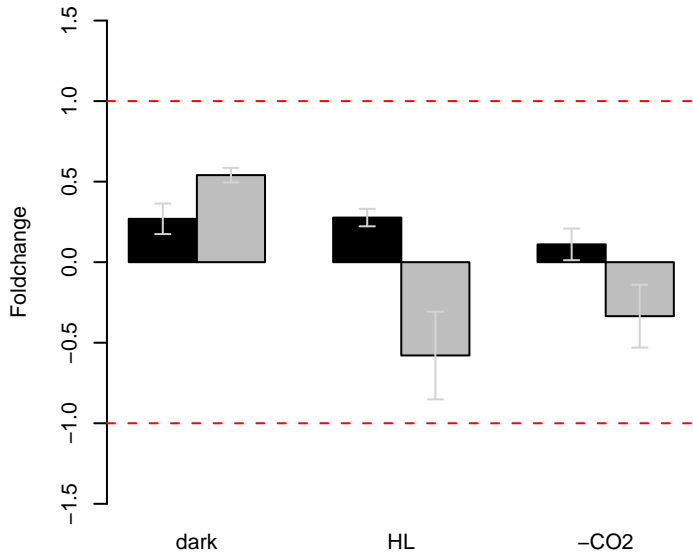
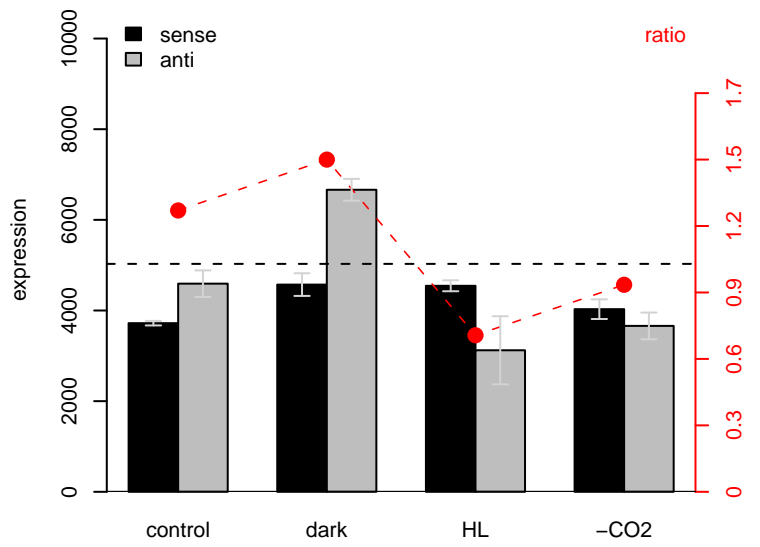
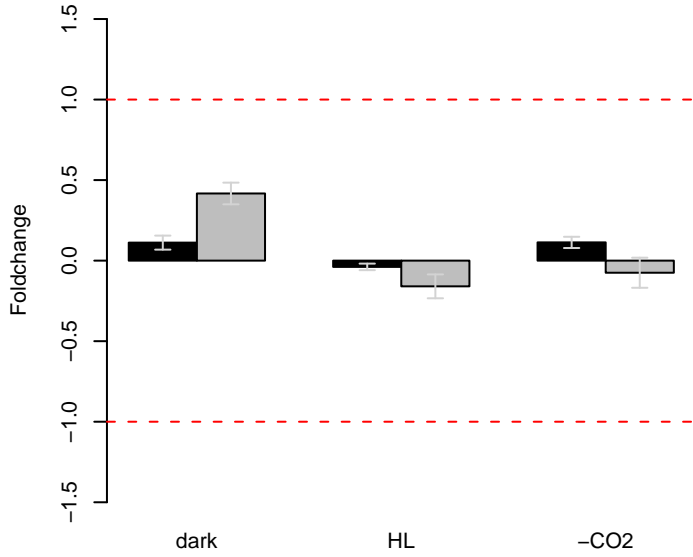
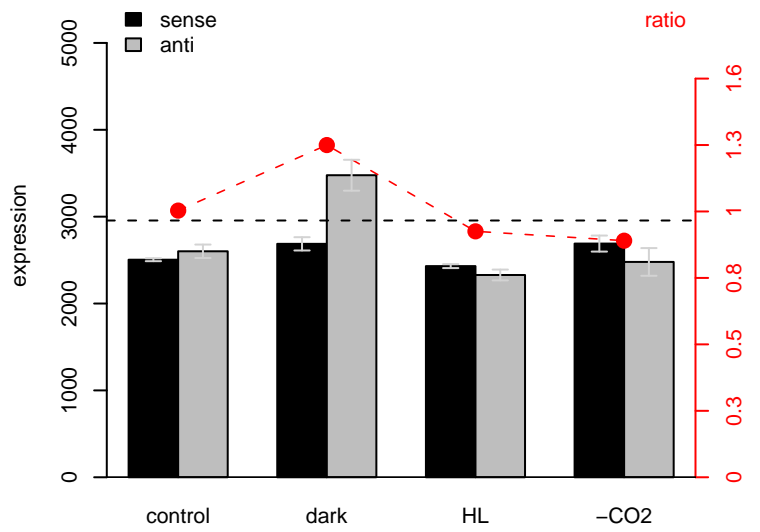
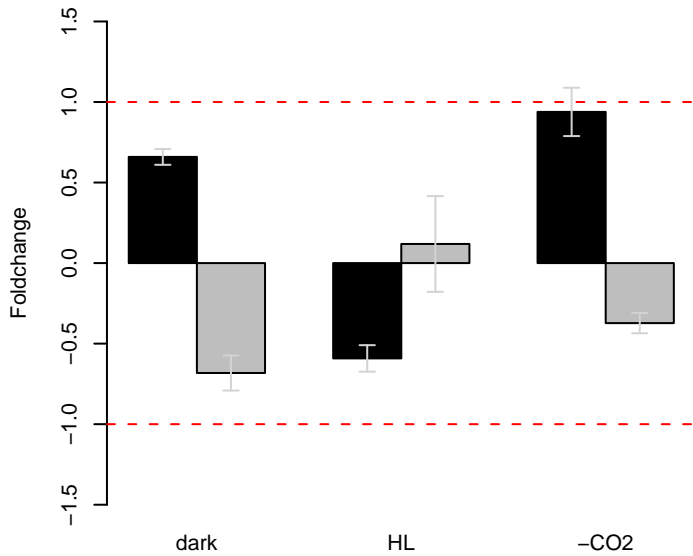
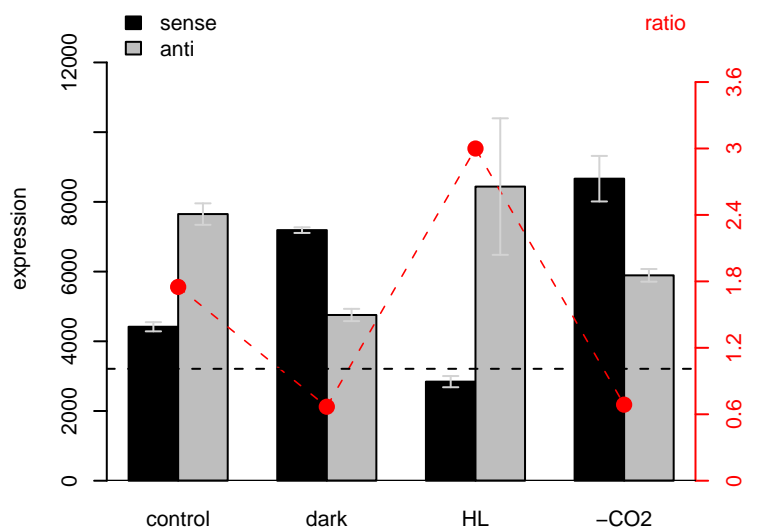
**sdhB(sll0823)****genome\_4064****sll0821****genome\_4068****sll0088****genome\_4077**

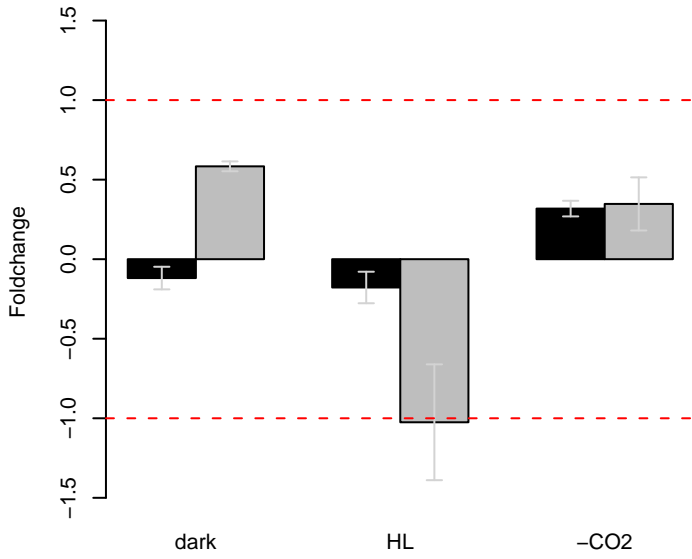
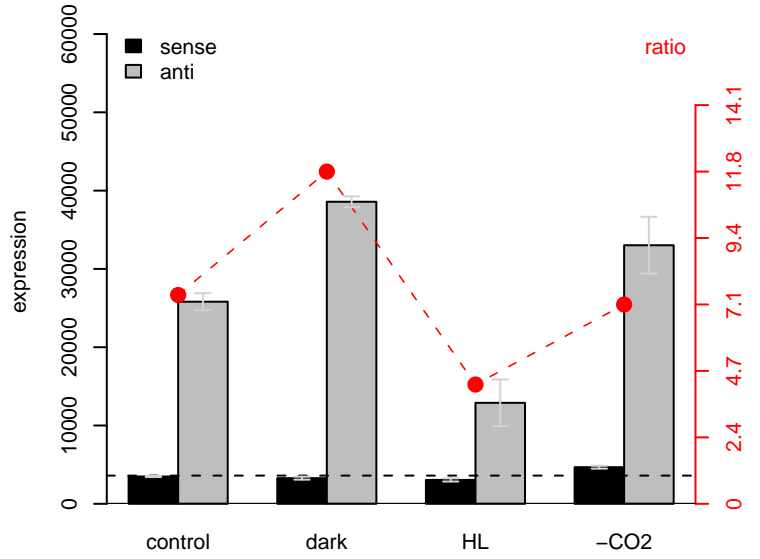
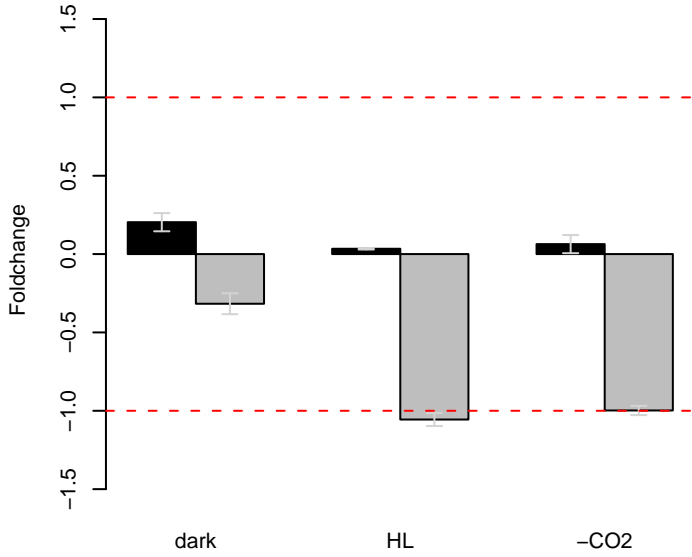
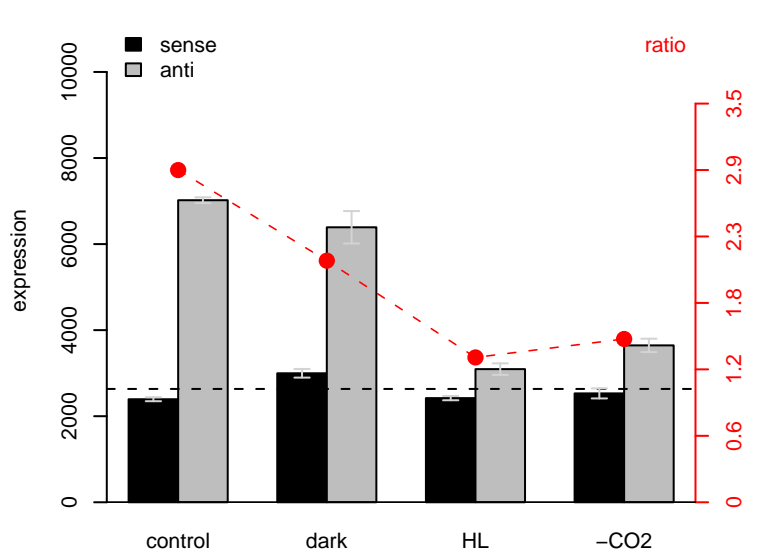
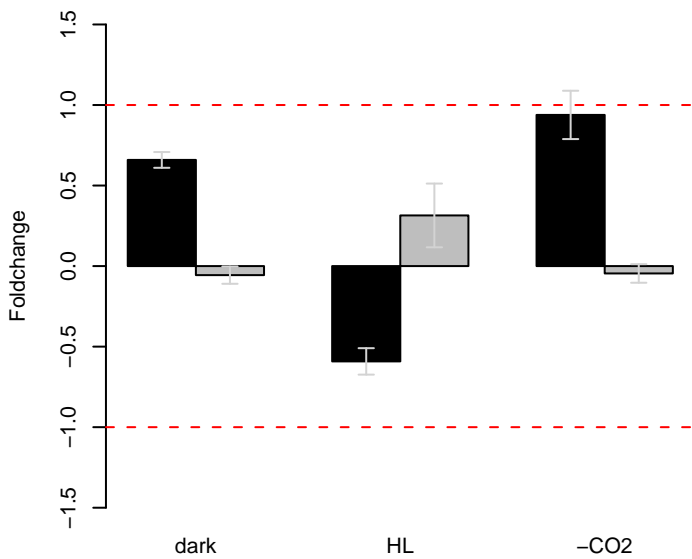
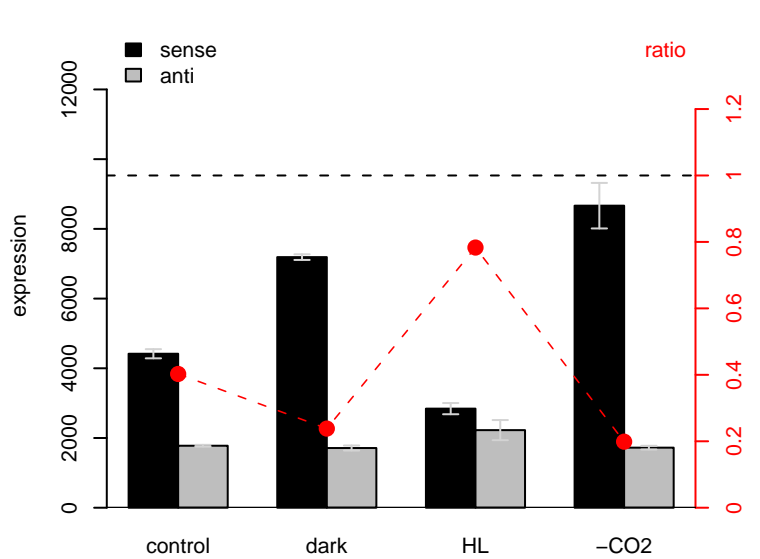
**ssl2384****genome\_407****nifS(slr0077)****genome\_4084****slI0086****genome\_4086**

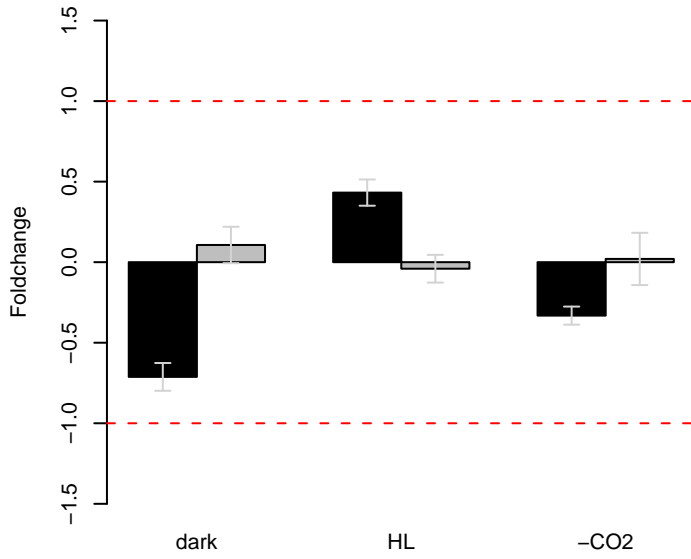
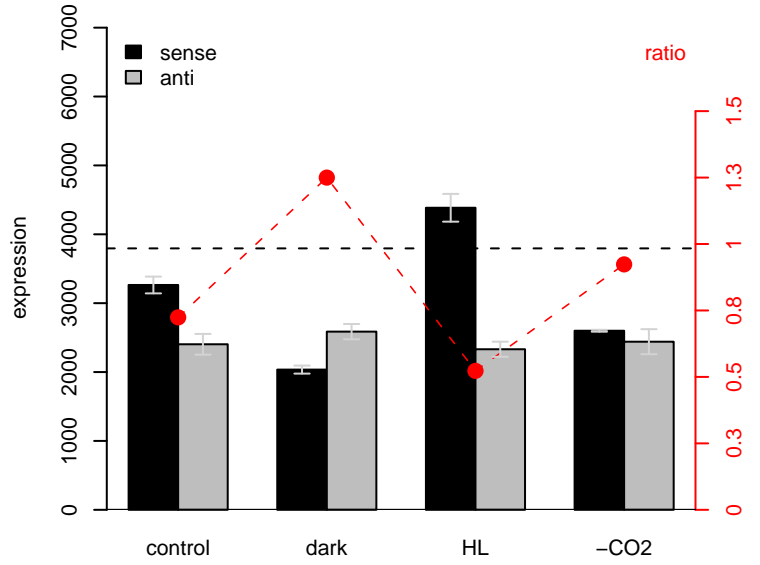
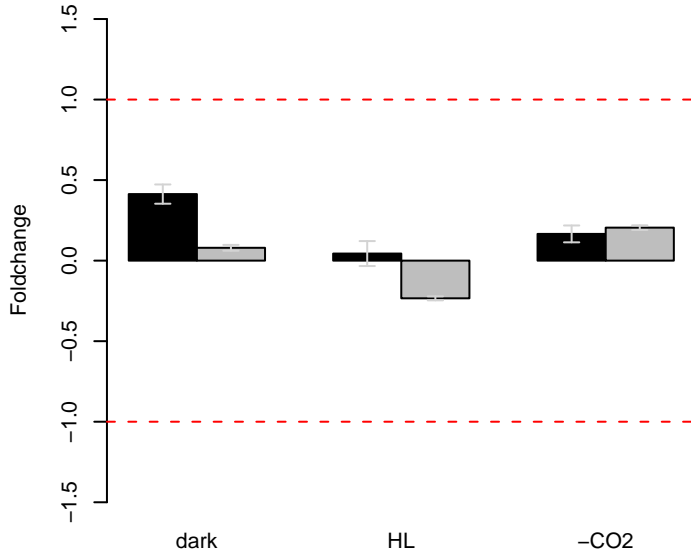
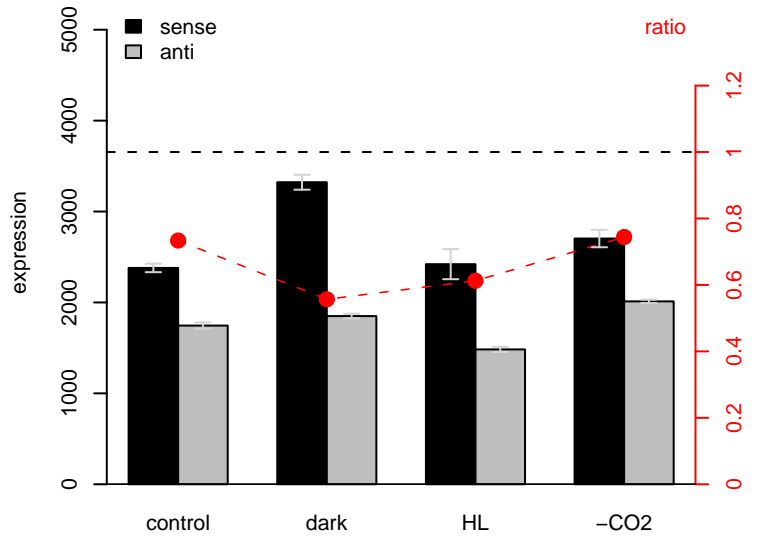
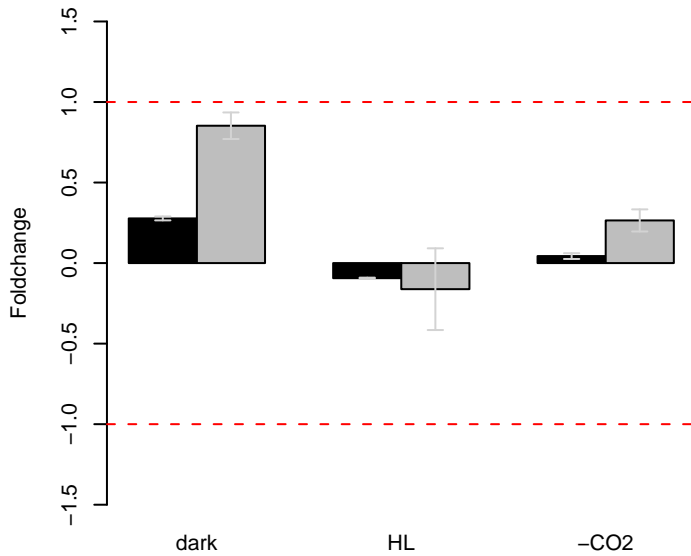
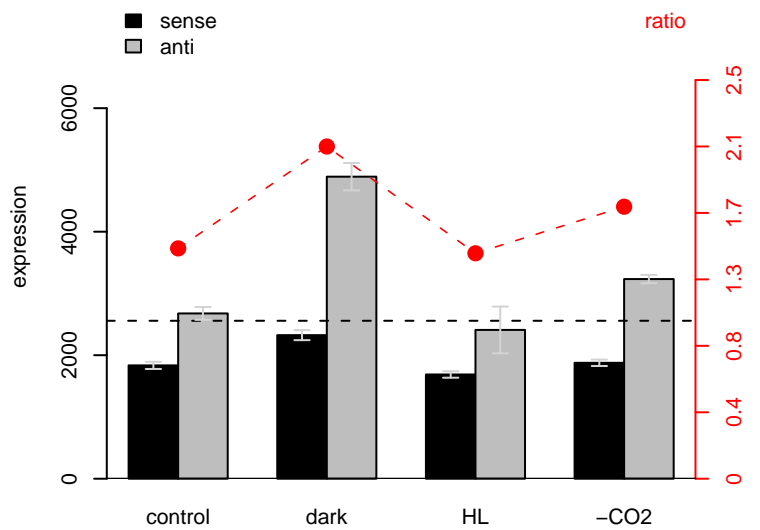
***gspE*(slr0079)****genome\_4093*****rnhA*(slr0080)****genome\_4096*****argC*(slr0080)****genome\_4103**

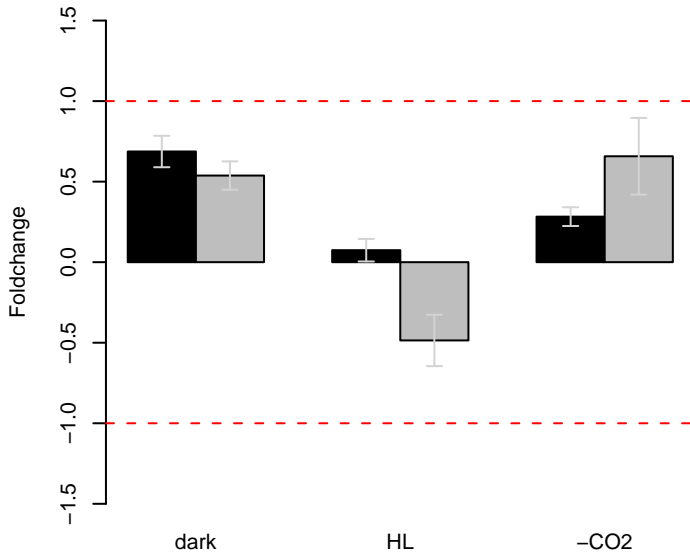
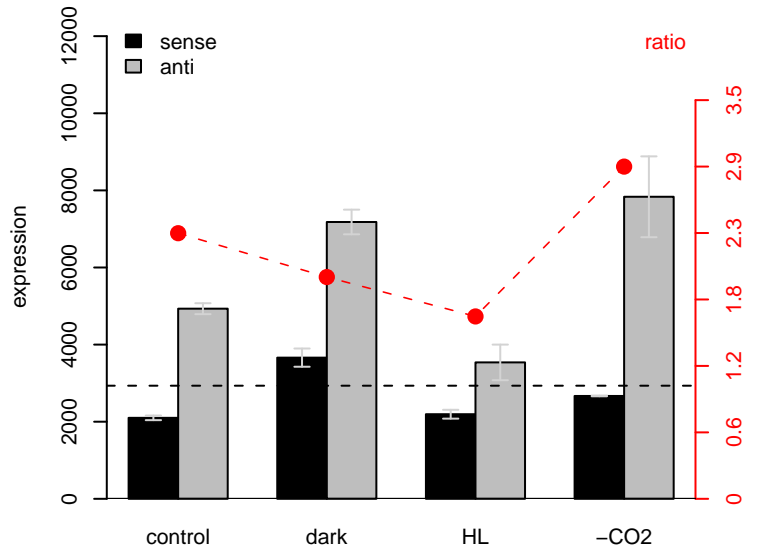
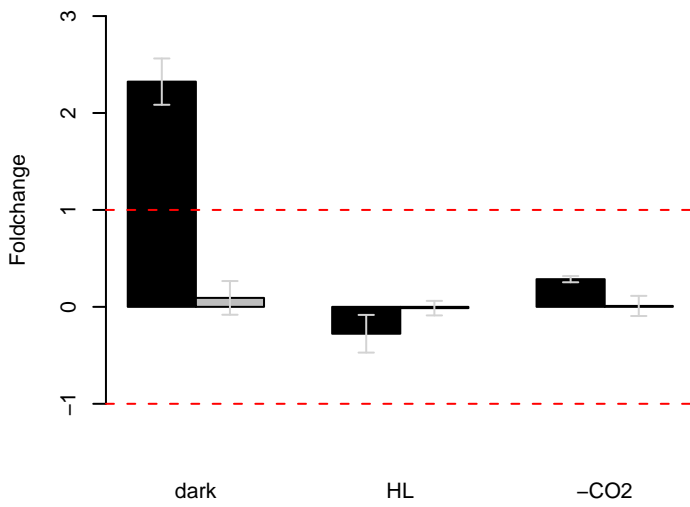
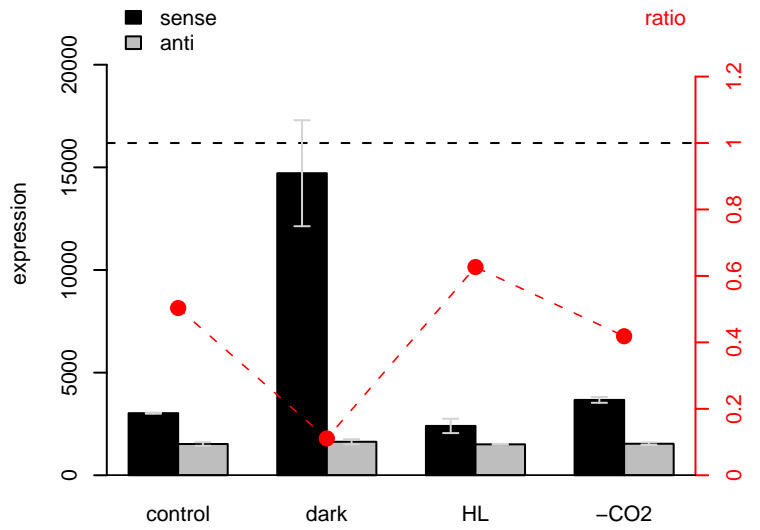
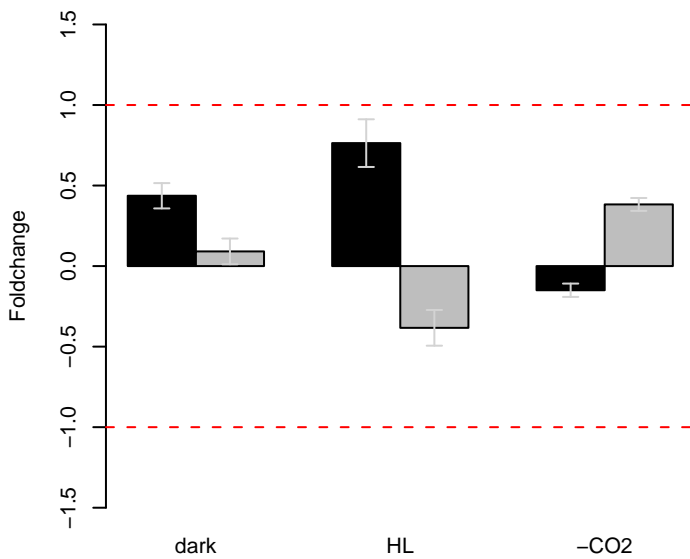
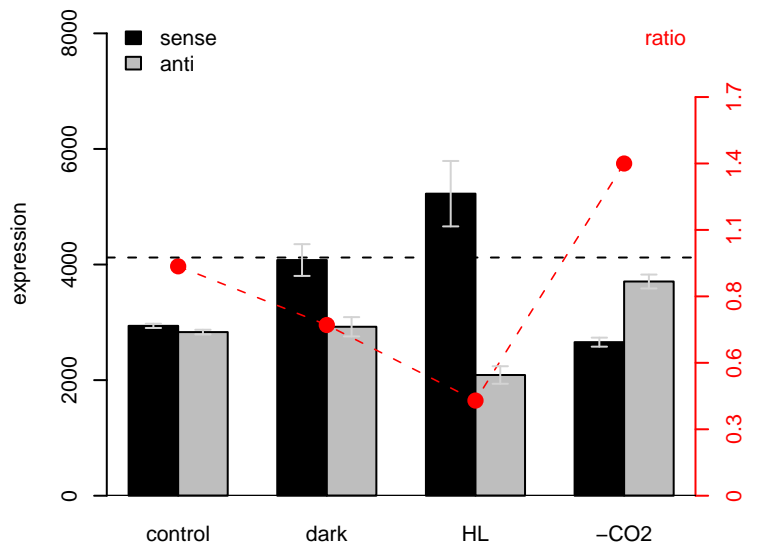
**crtO(slr0088)****genome\_4108****slr0096****genome\_4117****slr0489****genome\_4121**

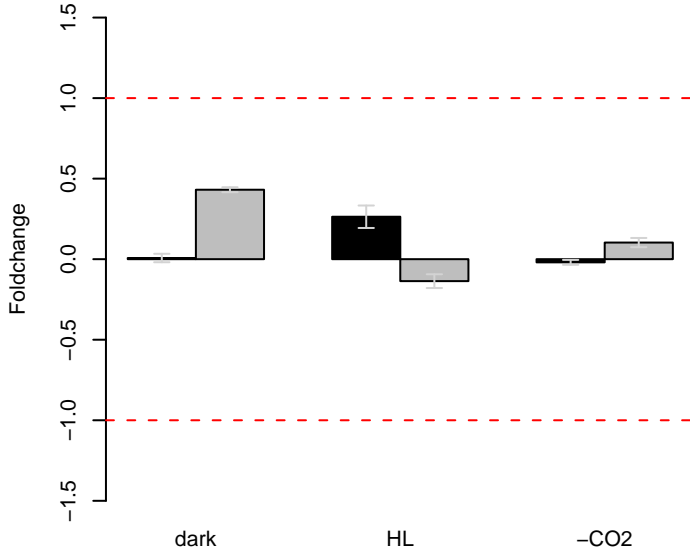
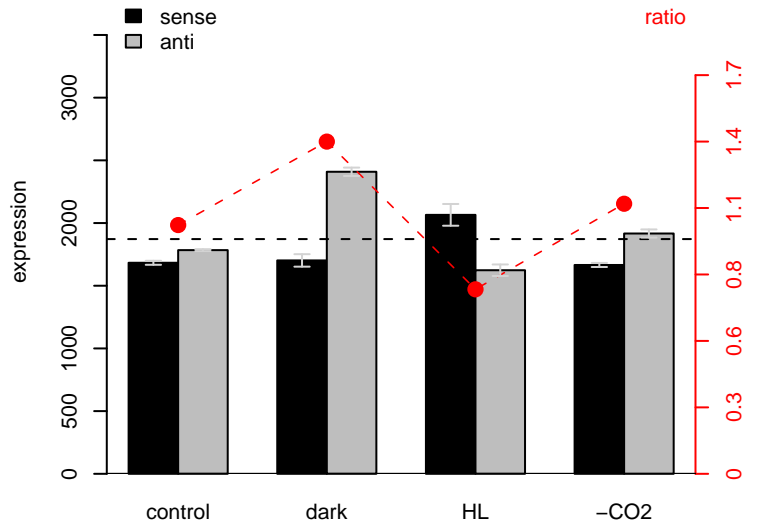
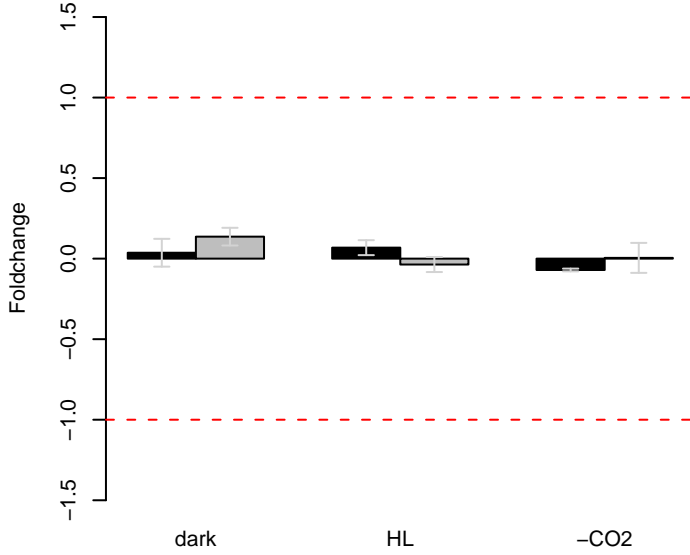
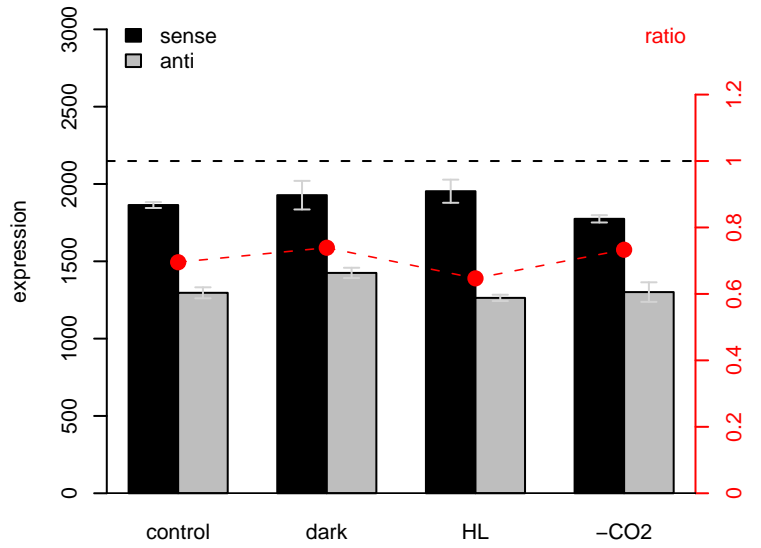
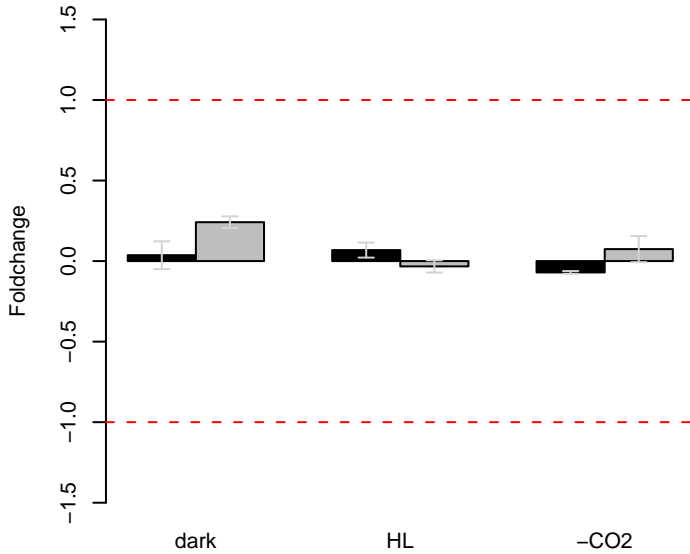
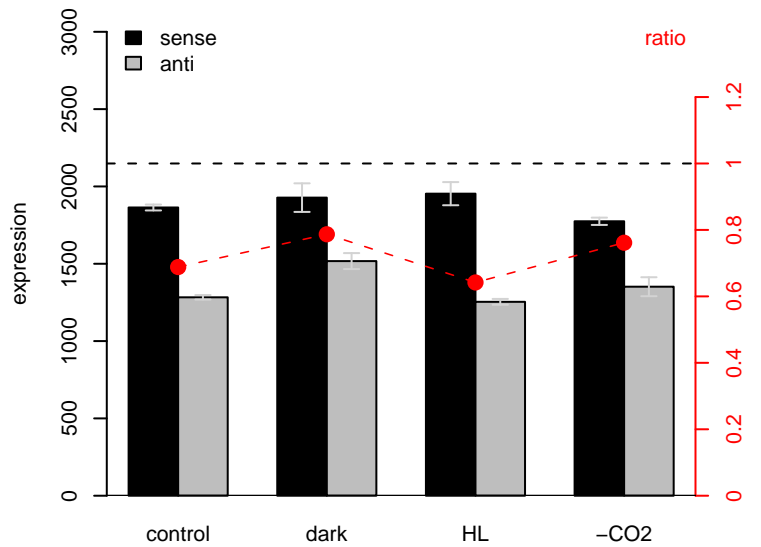


**hisB(slr0500)****genome\_4124****slI0488****genome\_4126****slI1193****genome\_412**

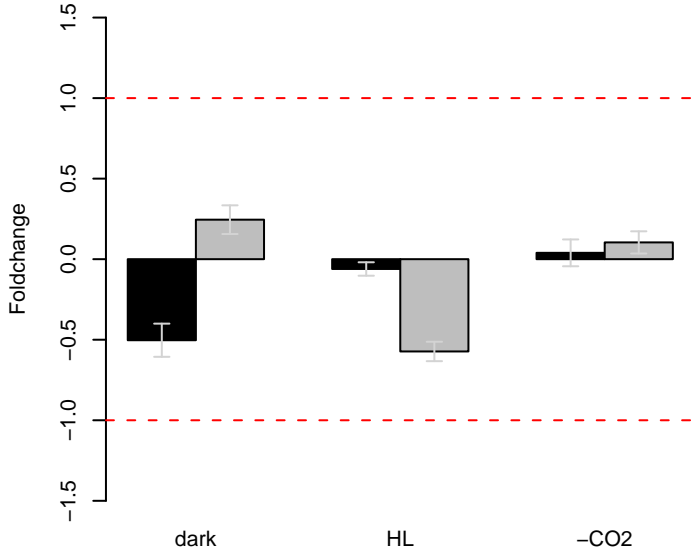
**slr0503****genome\_4135****sli0482****genome\_4140****sli1193****genome\_412**

**sli0480****genome\_4142****sli0477****genome\_4152****sli0474****genome\_4158**

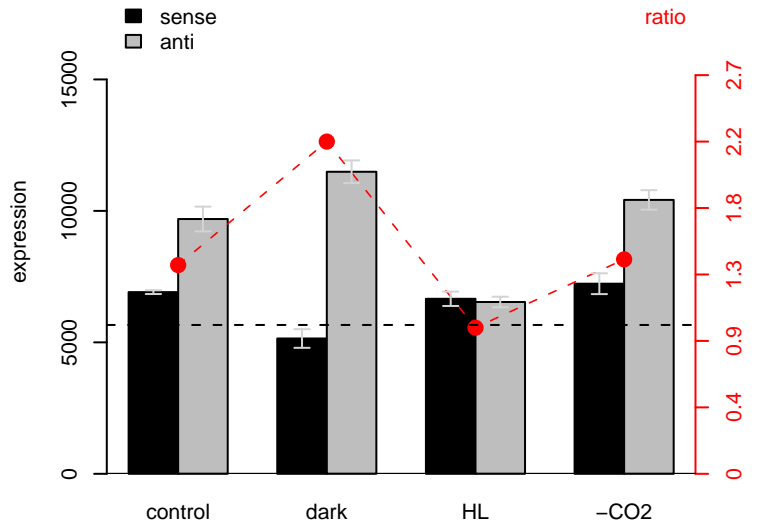
**slr0517****genome\_4161****abfB(slr0518)****genome\_4163****purL(slr0520)****genome\_4167**

**slr0521****genome\_4169****slr0522****genome\_4172****slr0522****genome\_4172**

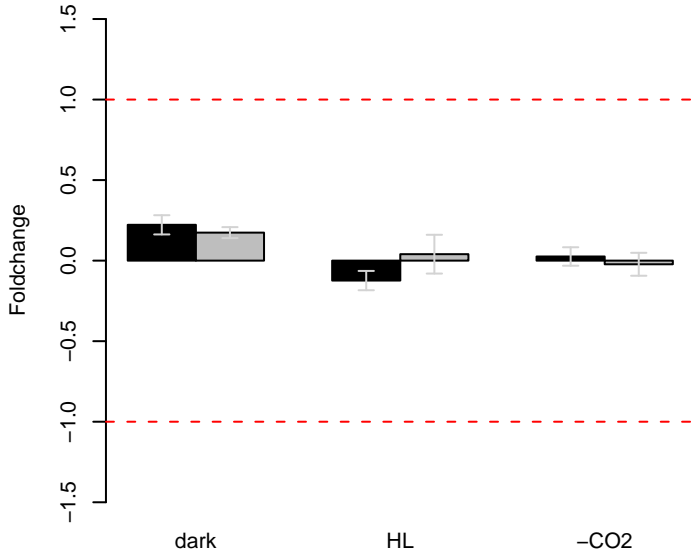
**prsA(sll0469)**



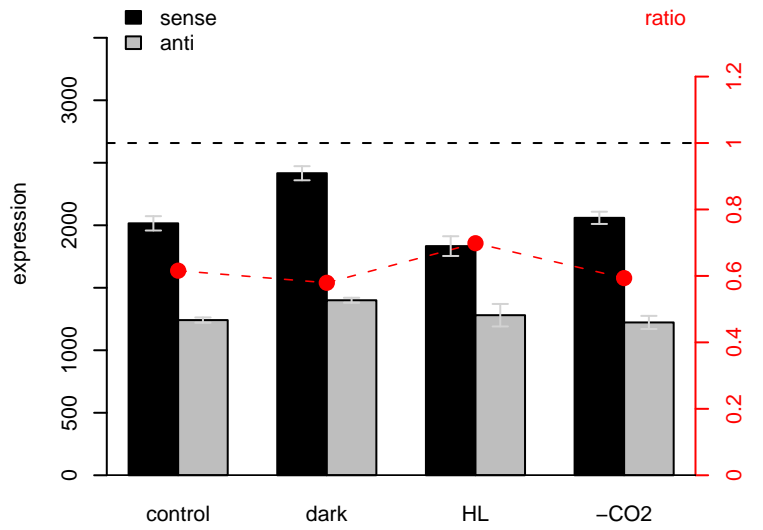
**genome\_4180**



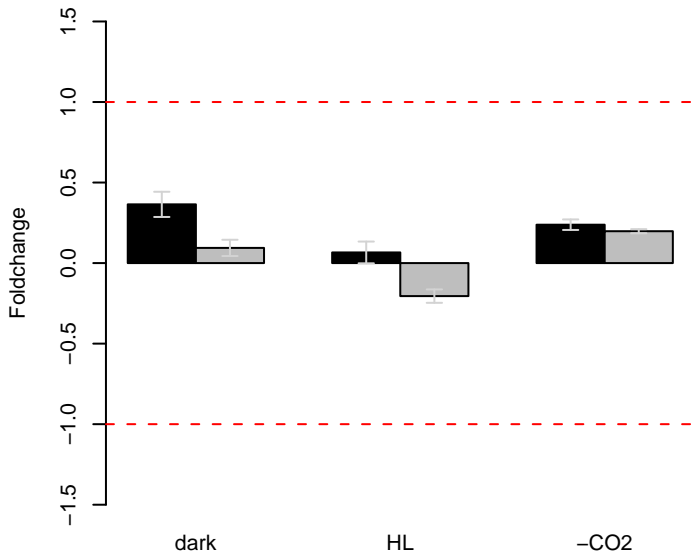
**sll0590**



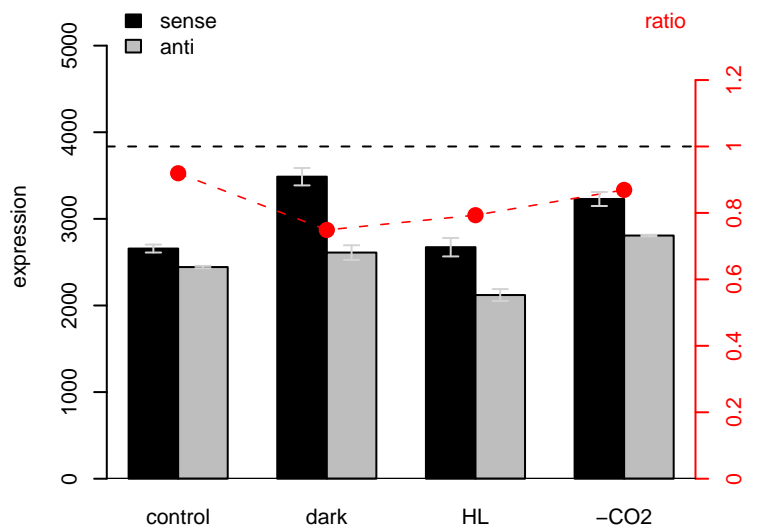
**genome\_4197**



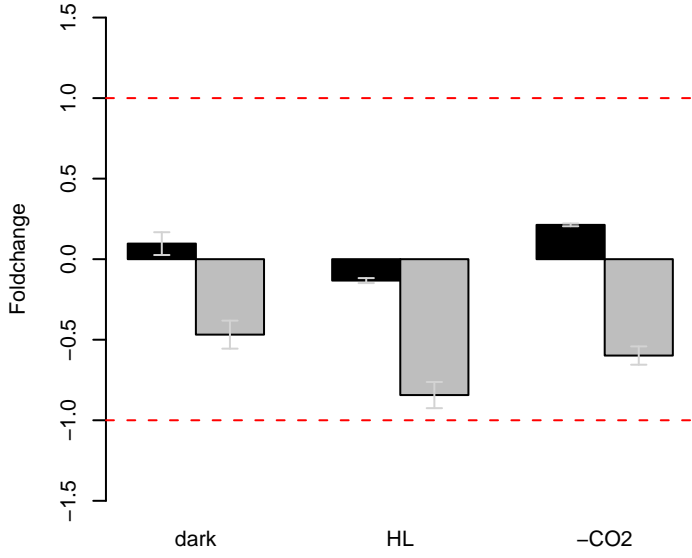
**cbiP(slr0618)**



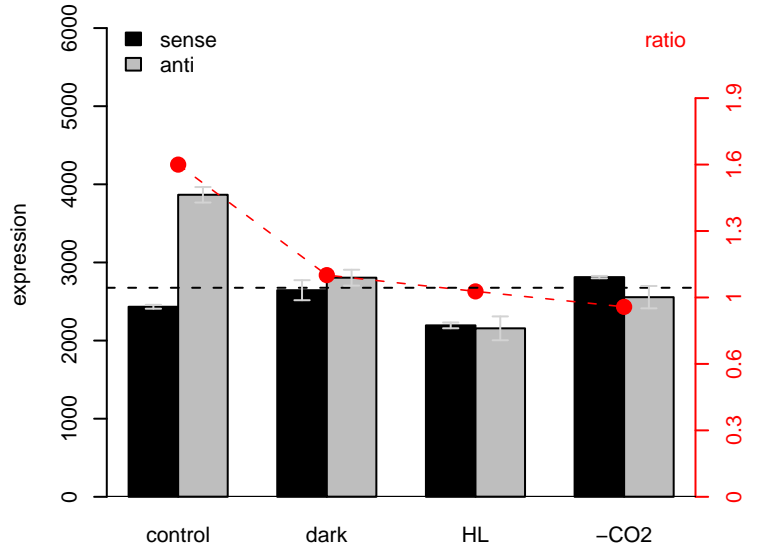
**genome\_4199**



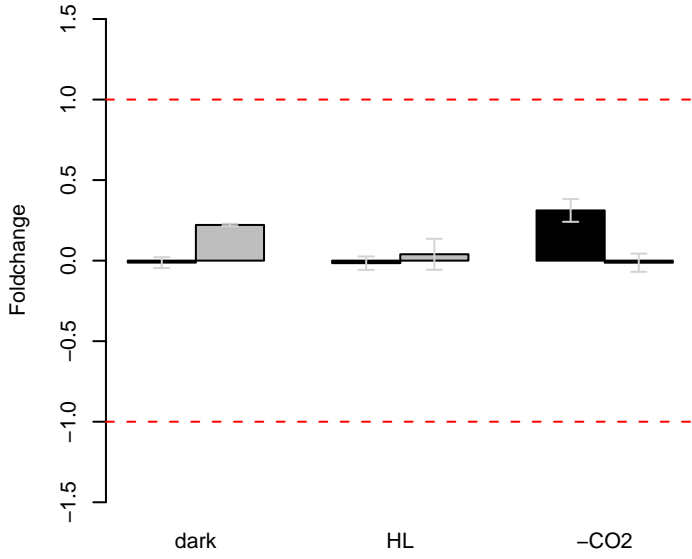
**pykF(sII0587)**



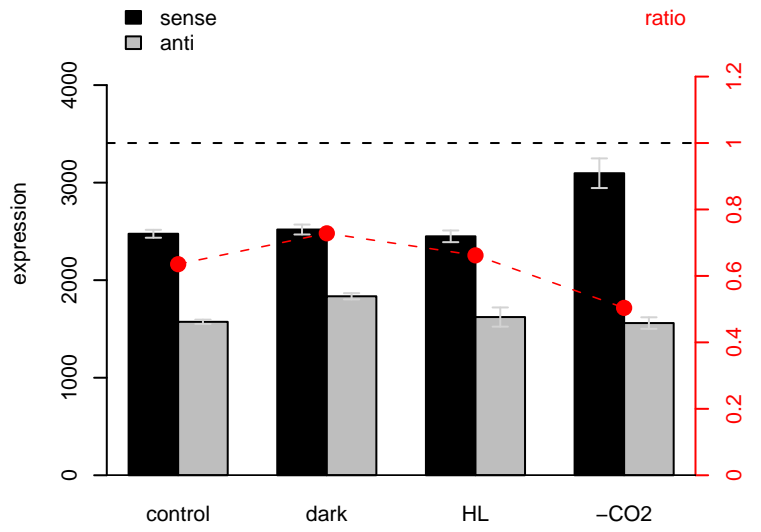
**genome\_4204**



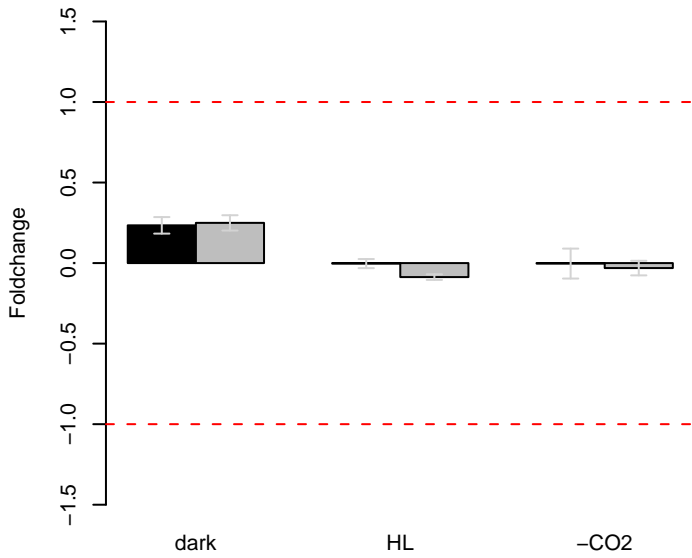
**sII0585**



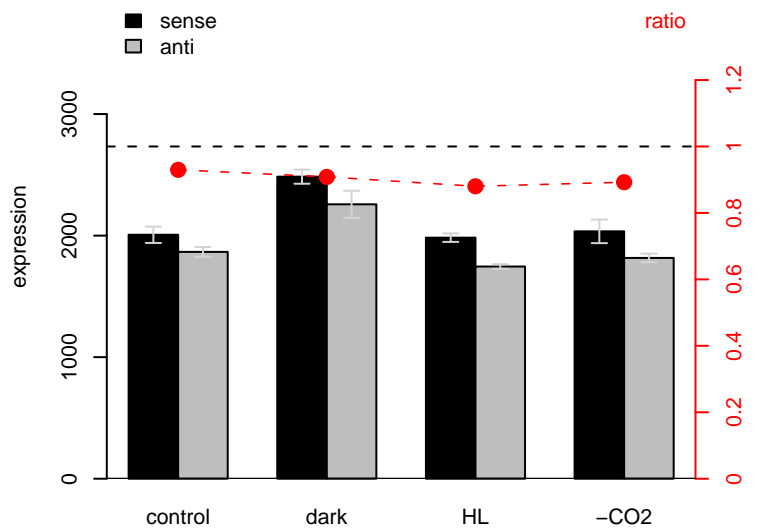
**genome\_4210**



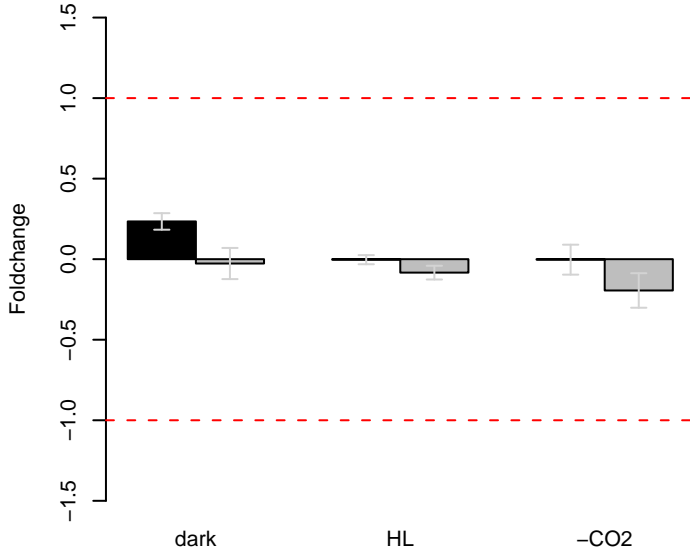
**eda(sII0107)**



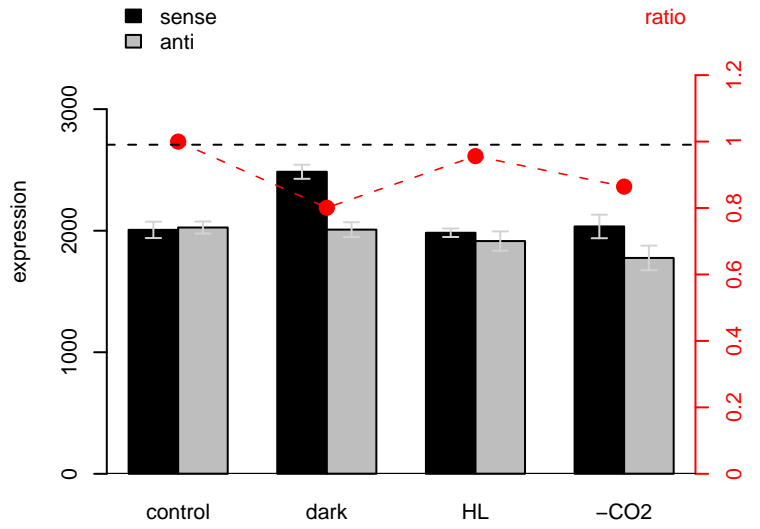
**genome\_4219**



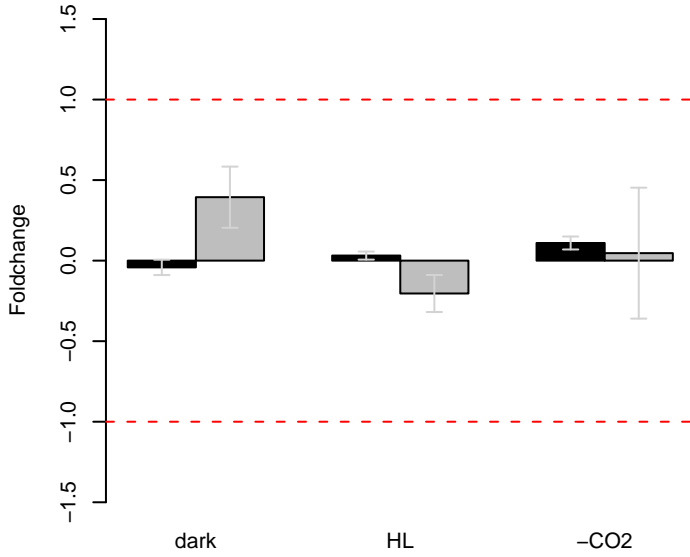
**eda(sll0107)**



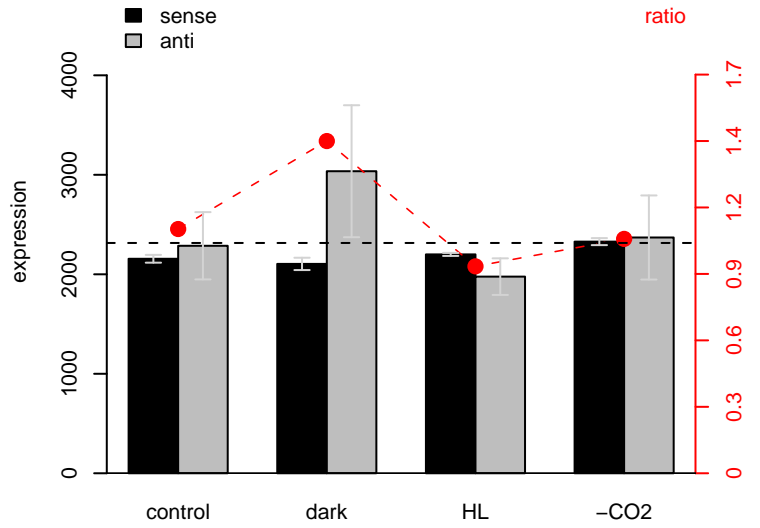
**genome\_4219**



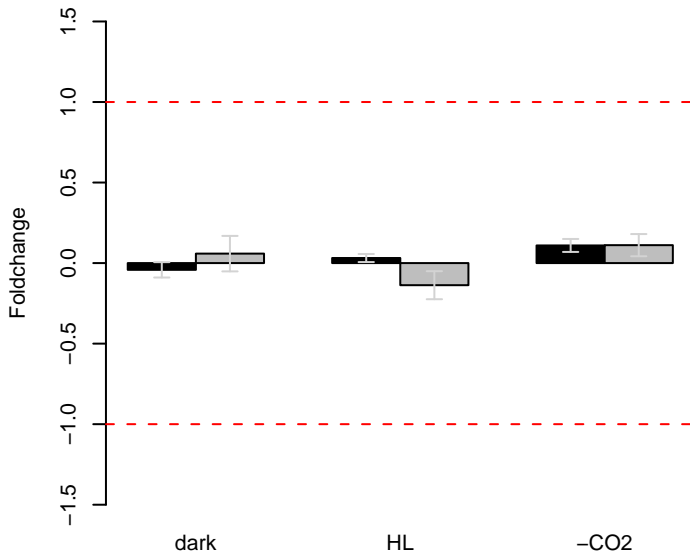
**slr0104**



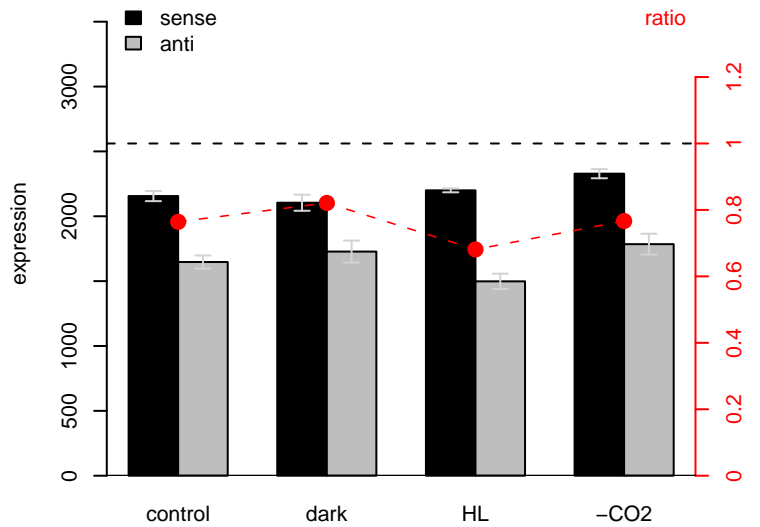
**genome\_4223**



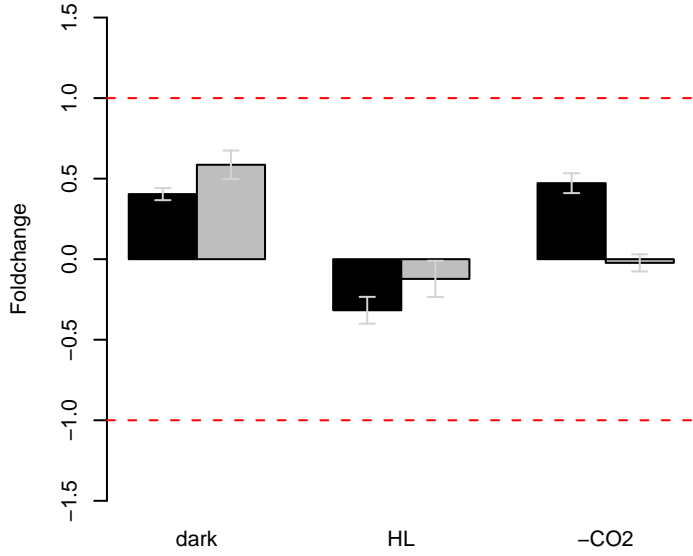
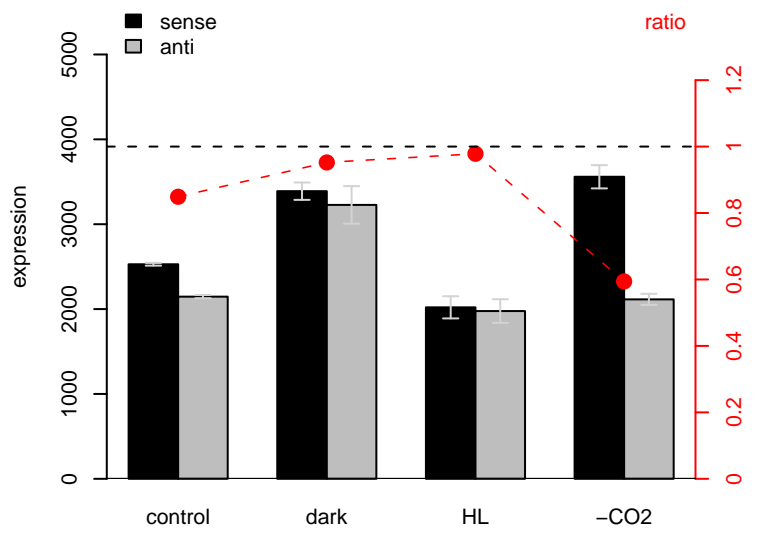
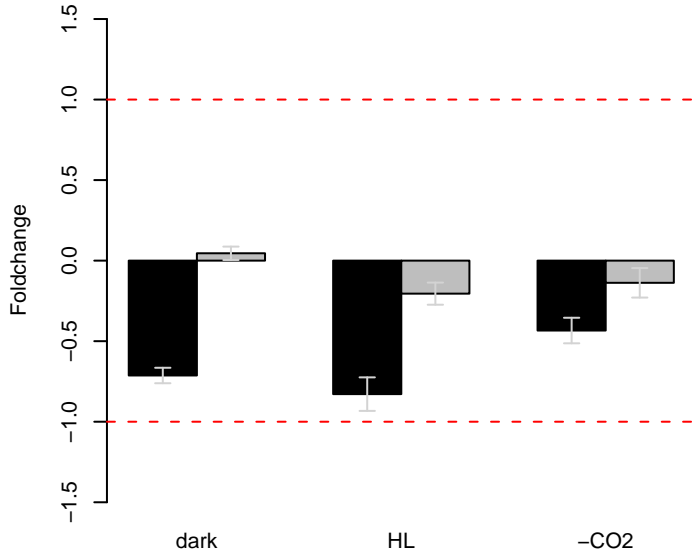
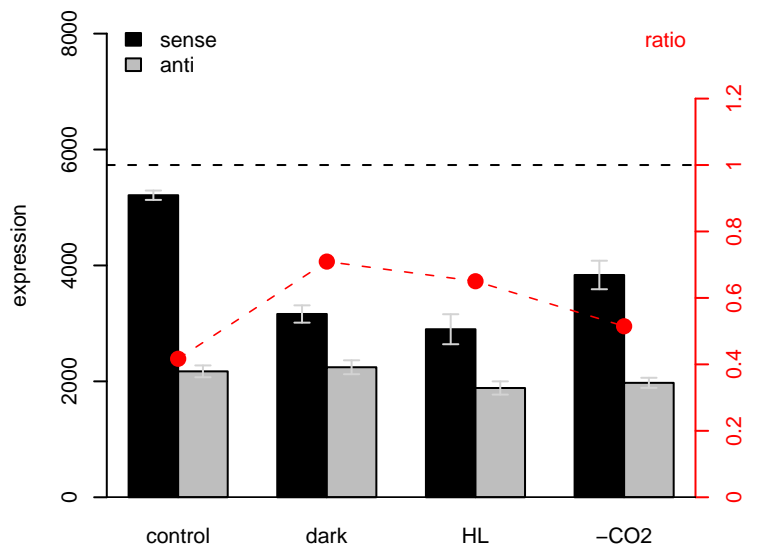
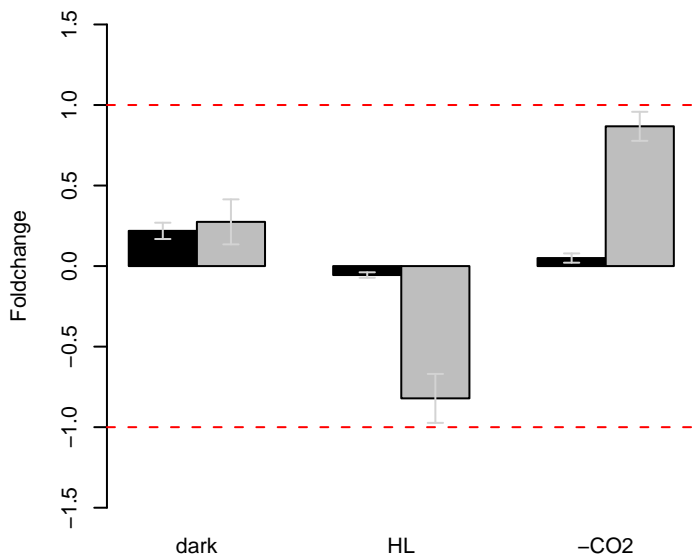
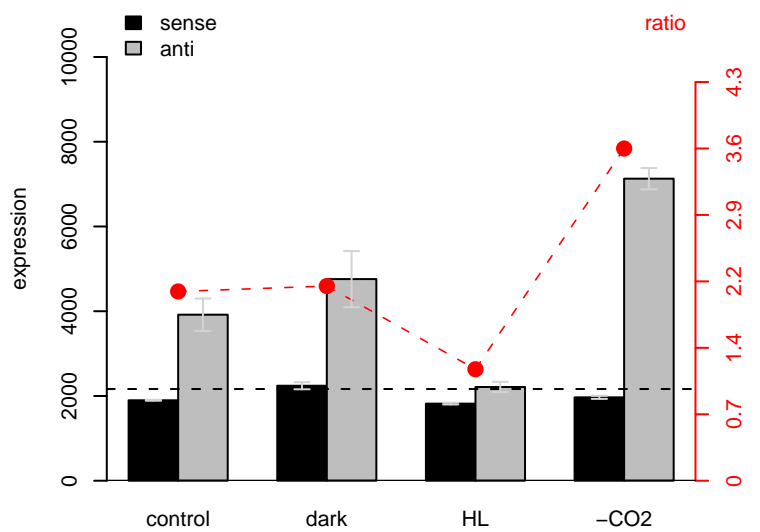
**slr0104**

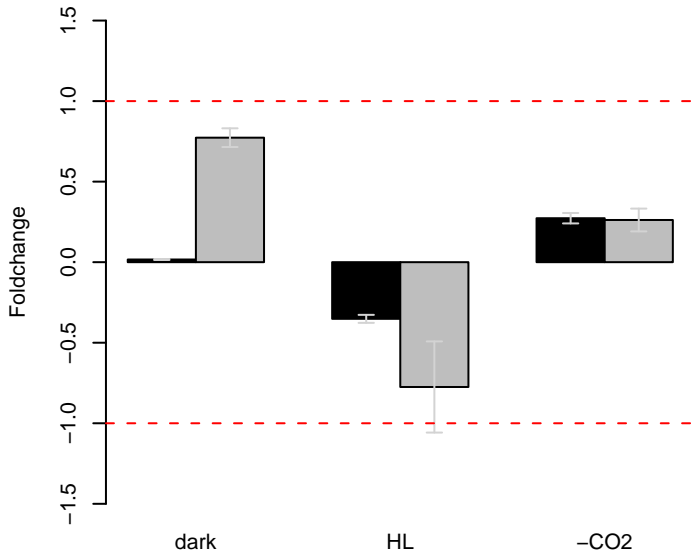
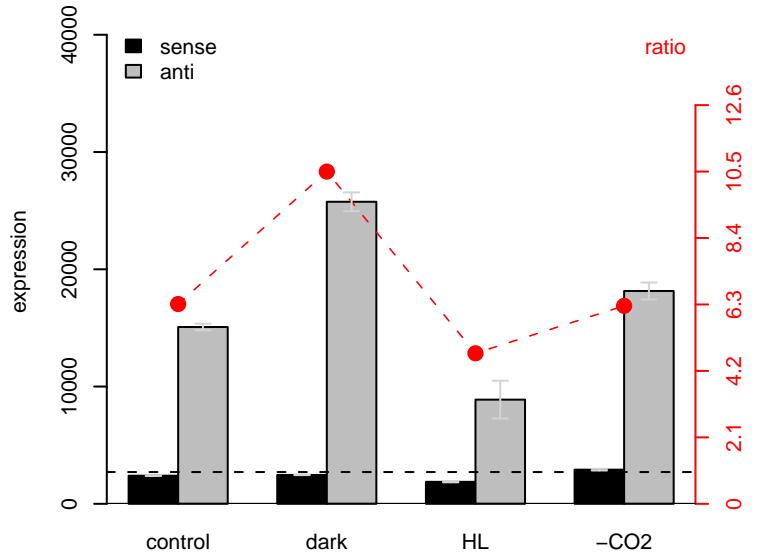
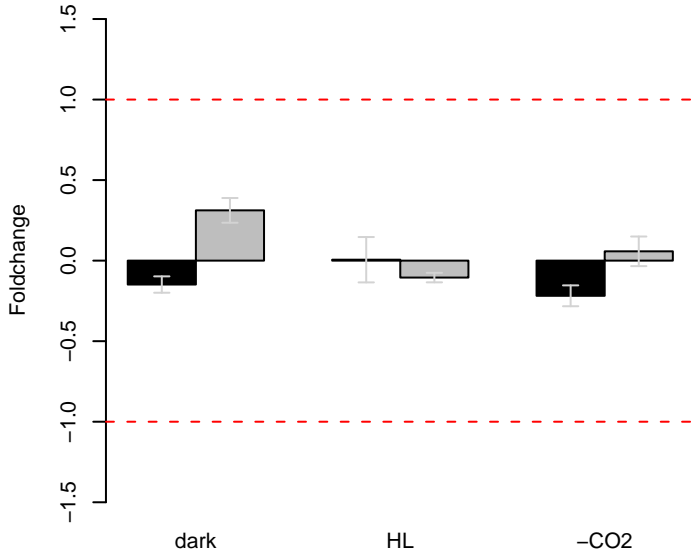
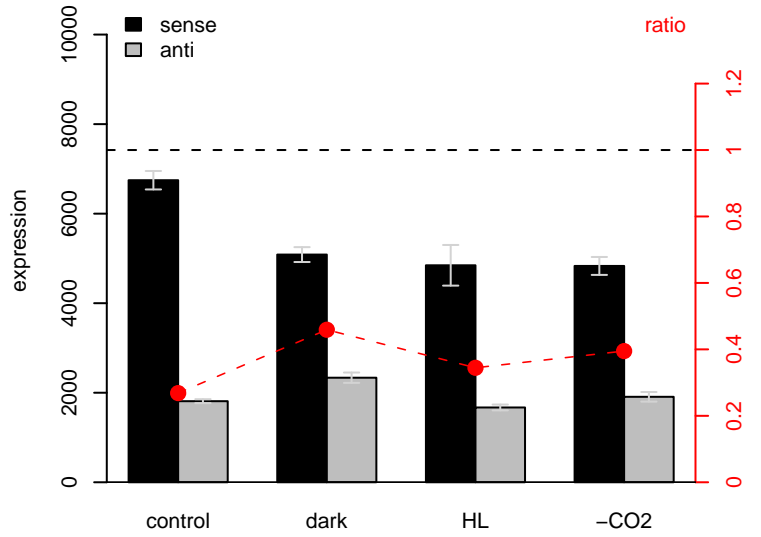
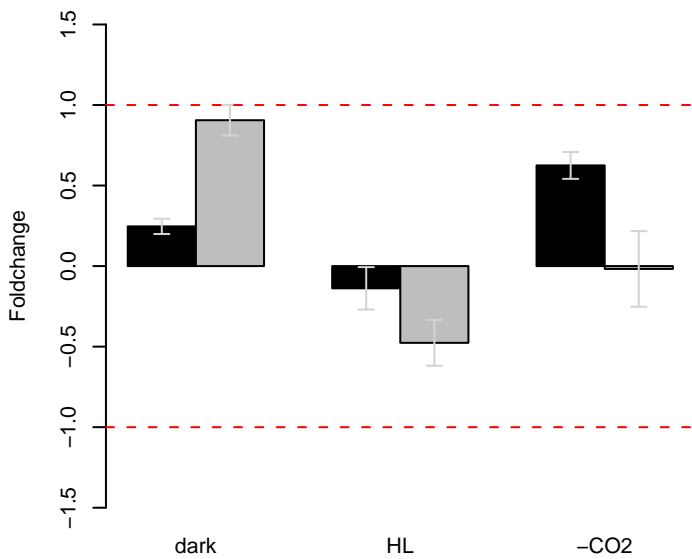
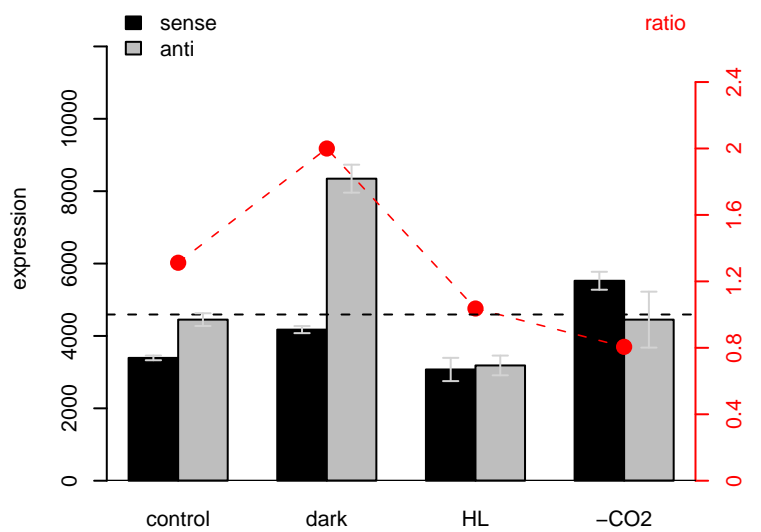


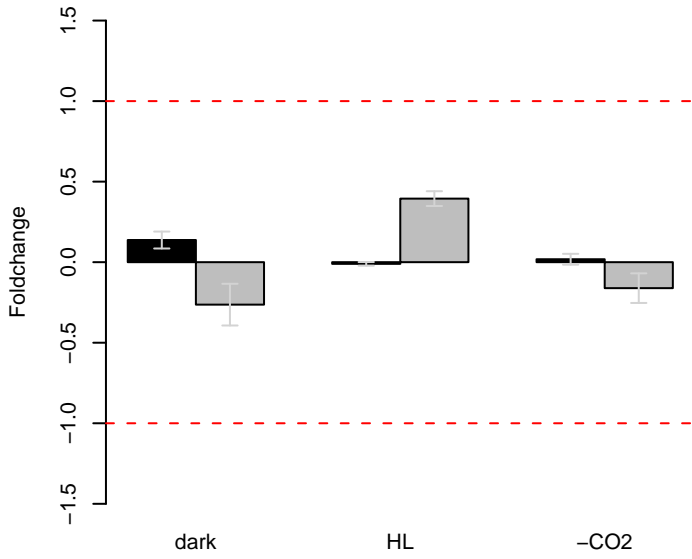
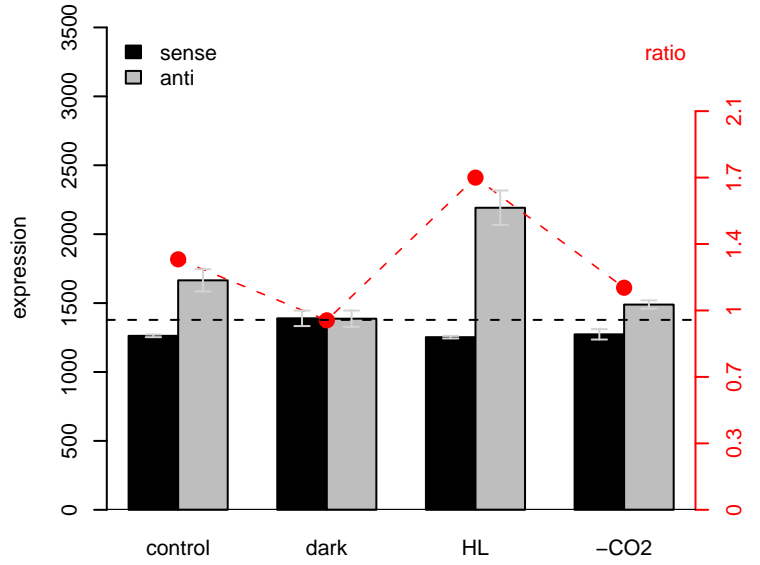
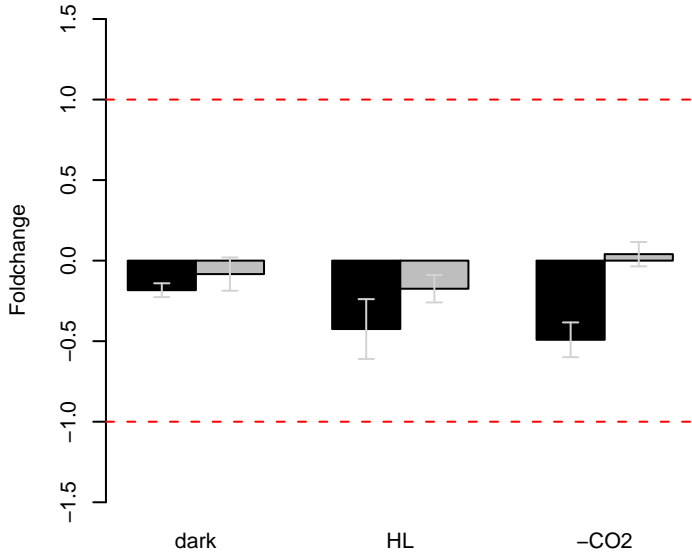
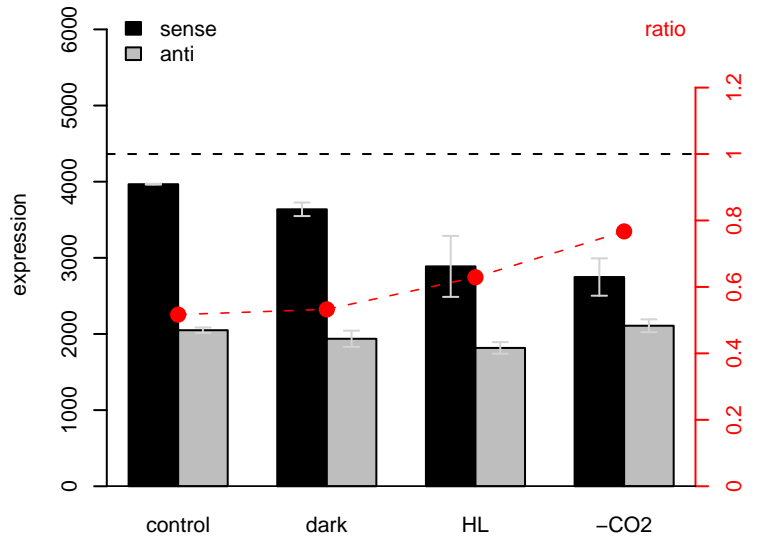
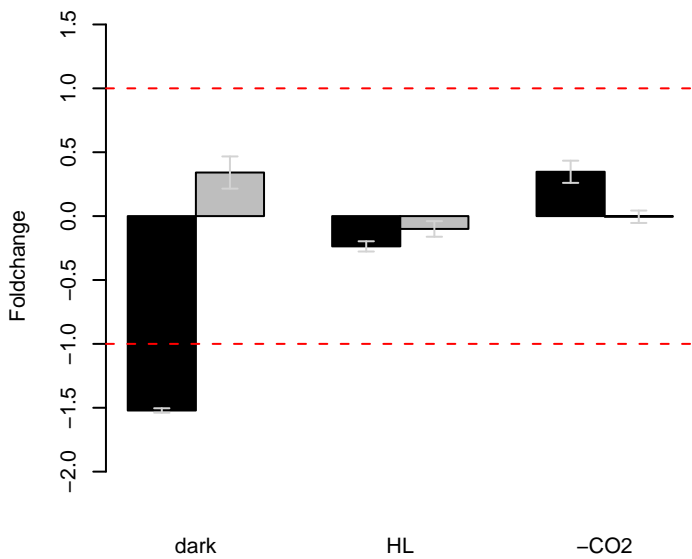
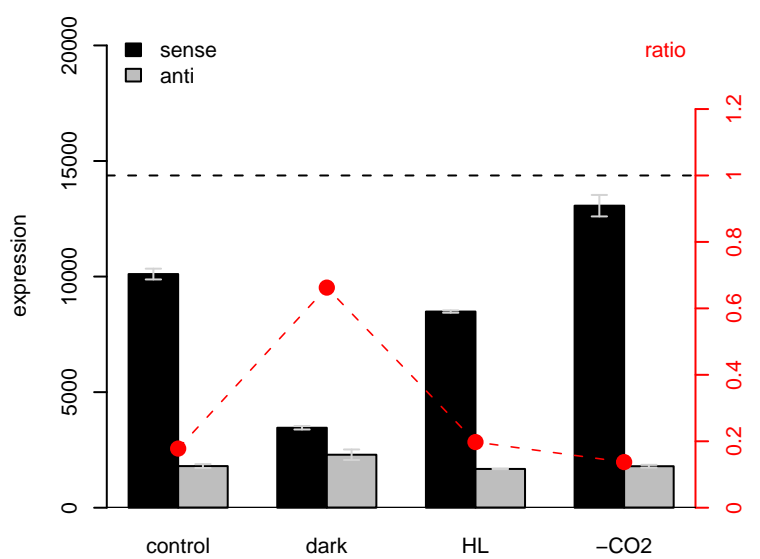
**genome\_4223**



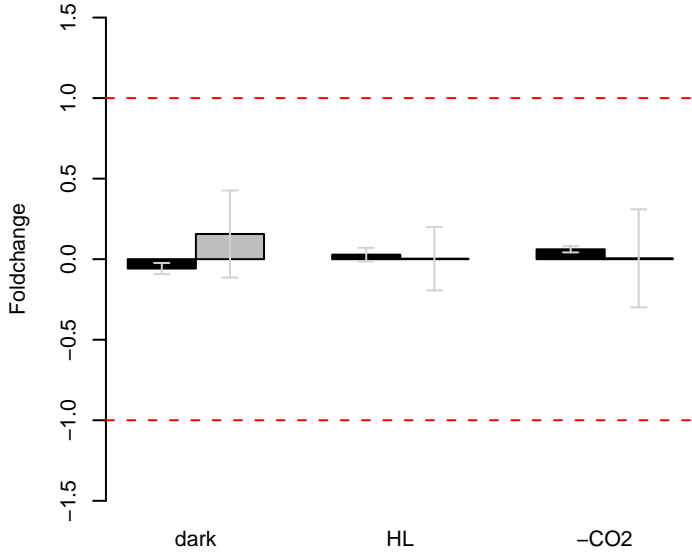


**sli0103****genome\_4226****slr0105****genome\_4229****sli0095****genome\_4240**

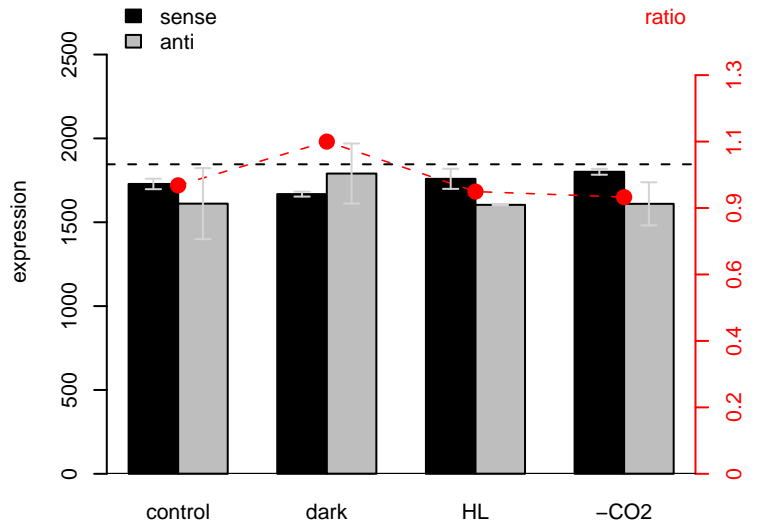
**sli0094****genome\_4242****slr0110****genome\_4244****slr0112****genome\_4247**

**sli7001****pSYSA\_1****slr1302****genome\_425****thiC(slr0118)****genome\_4265**

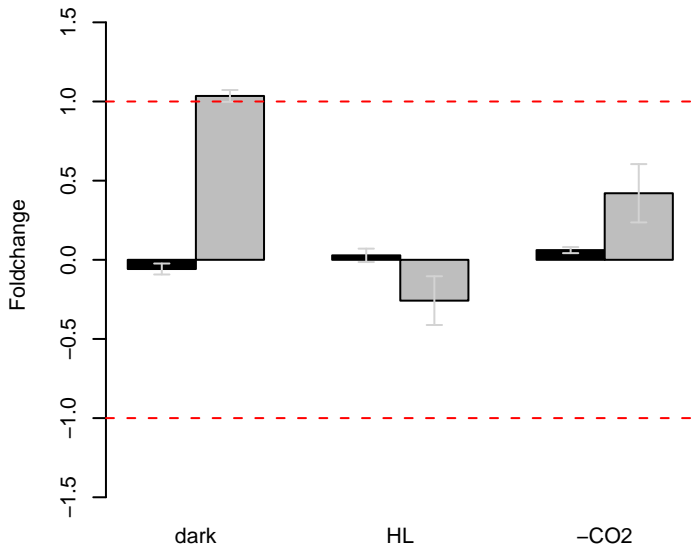
**ppk(sII0290)**



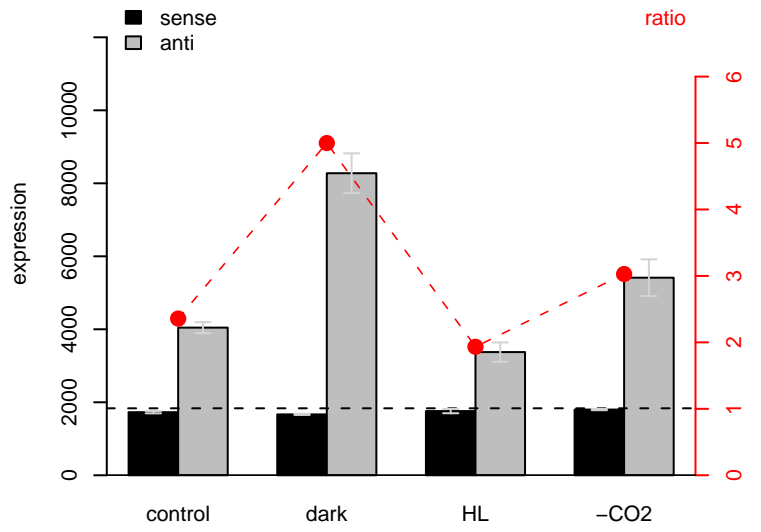
**genome\_4271**



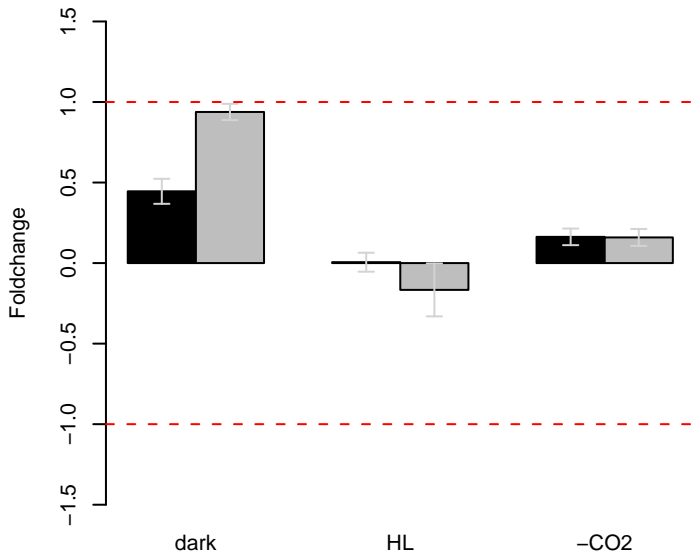
**ppk(sII0290)**



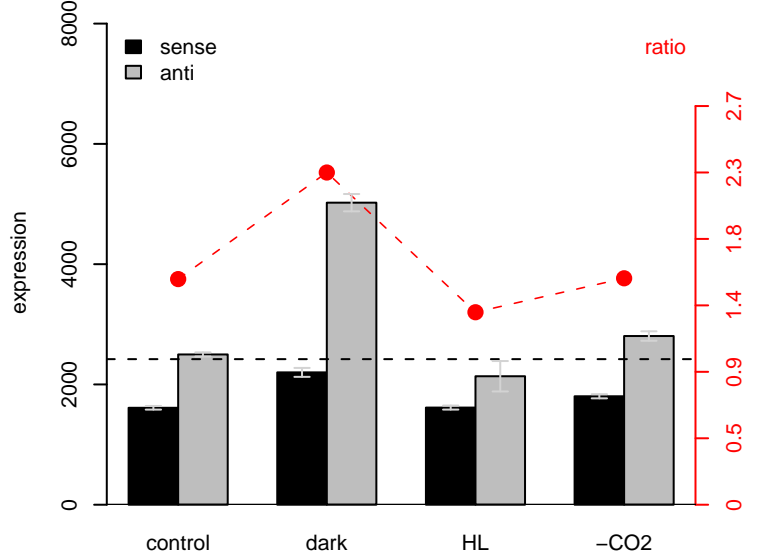
**genome\_4271**



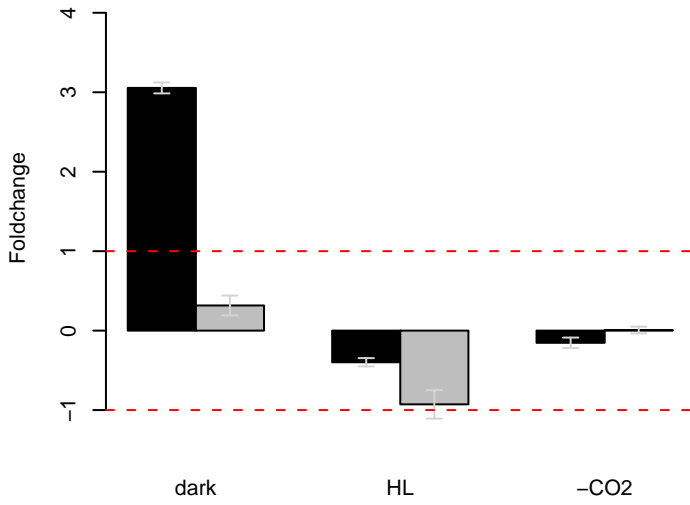
**slr0300**



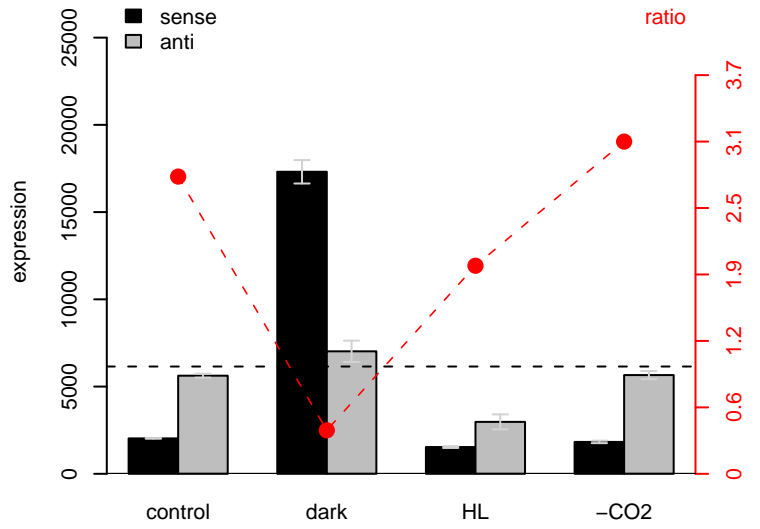
**genome\_4279**



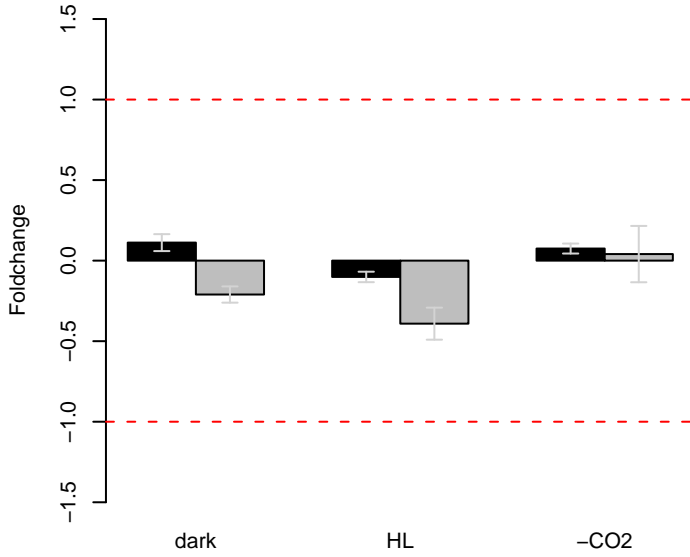
**ppsA(slr0301)**



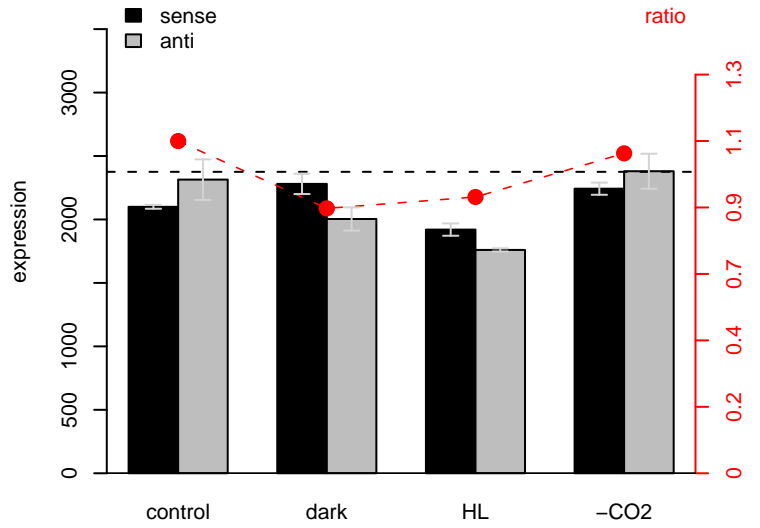
**genome\_4281**



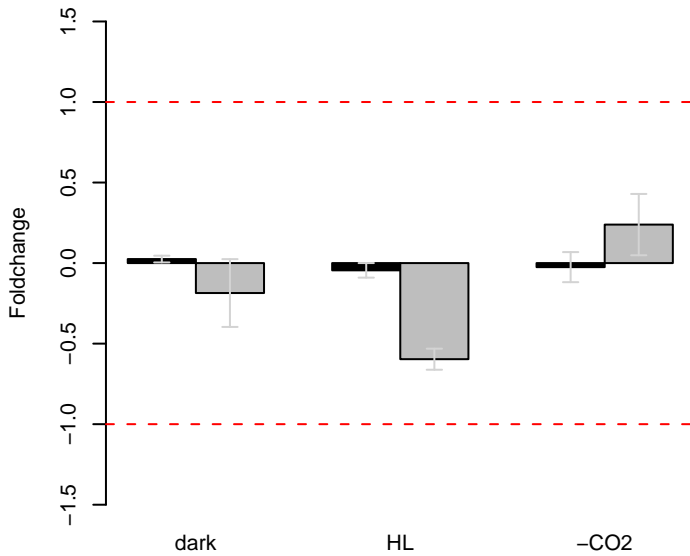
**slr0302**



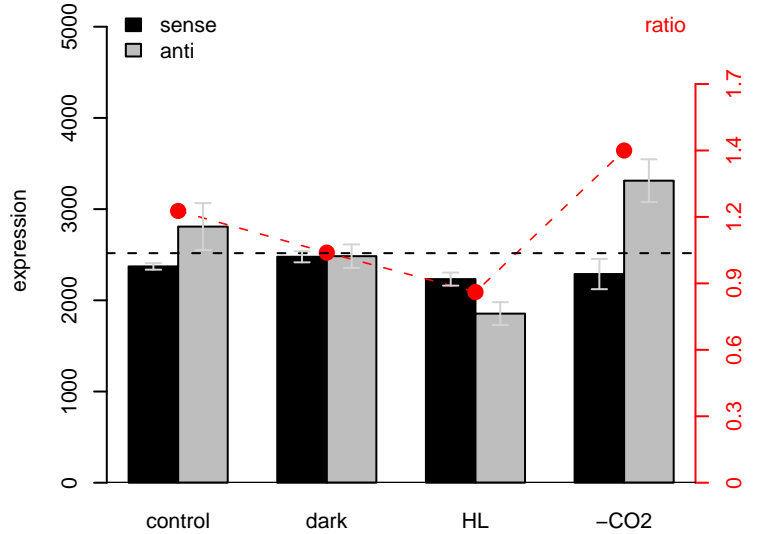
**genome\_4283**

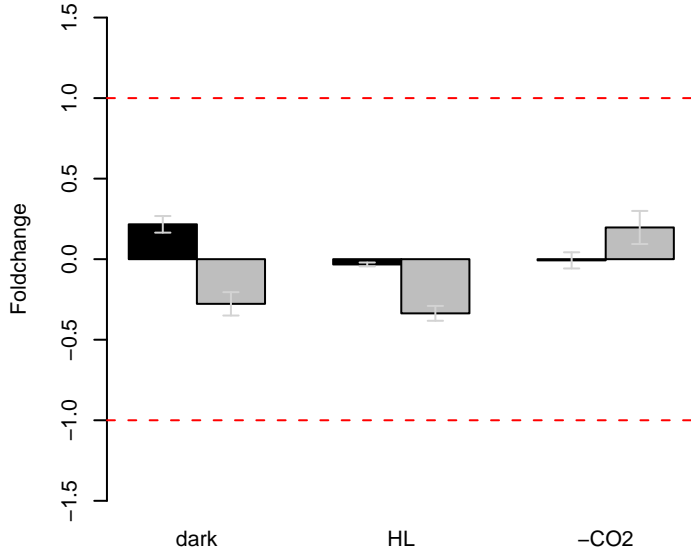
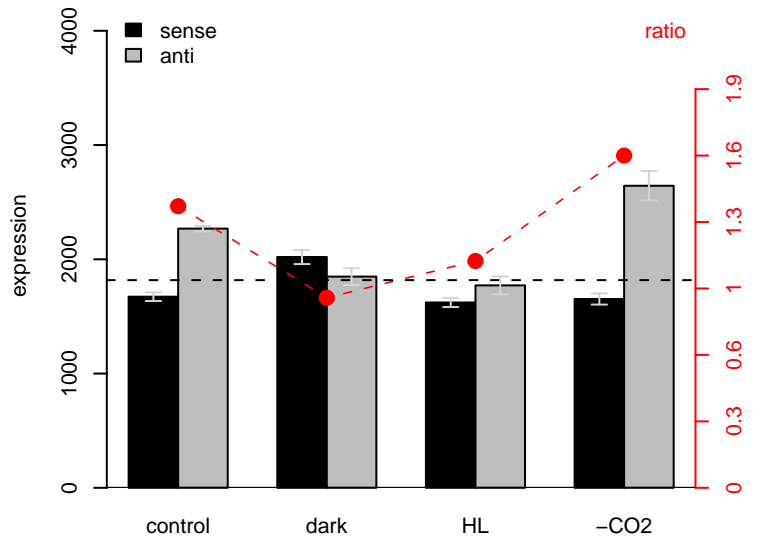
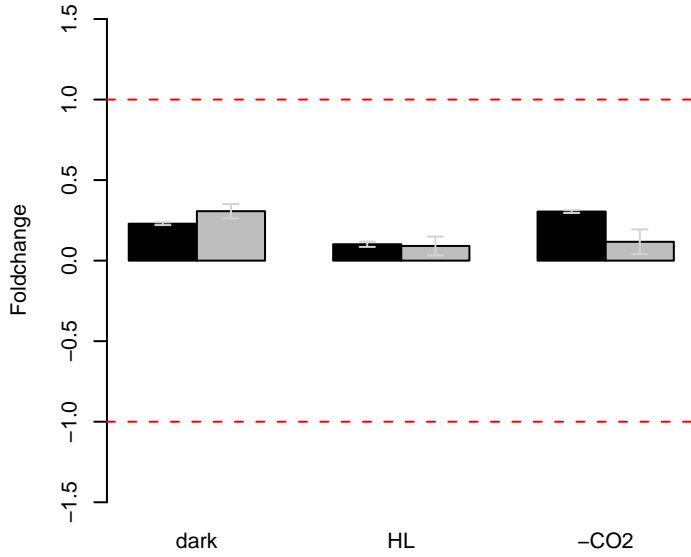
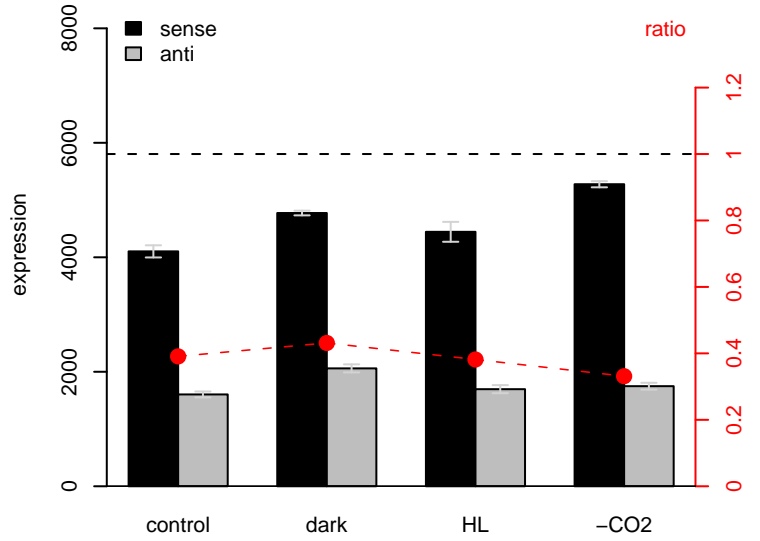
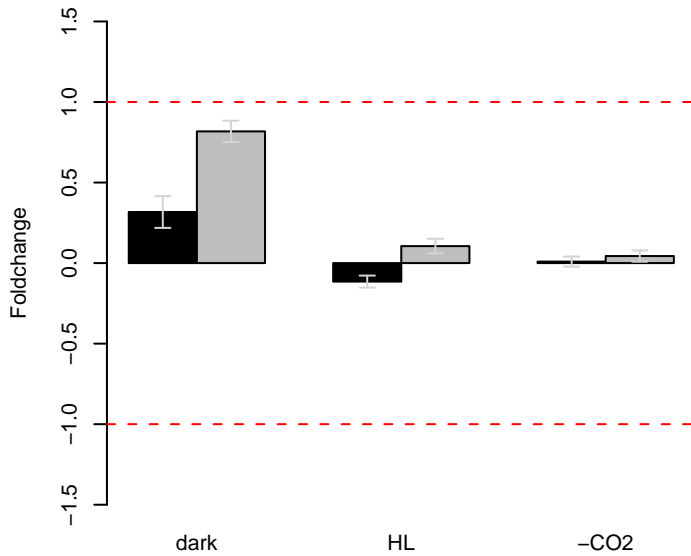
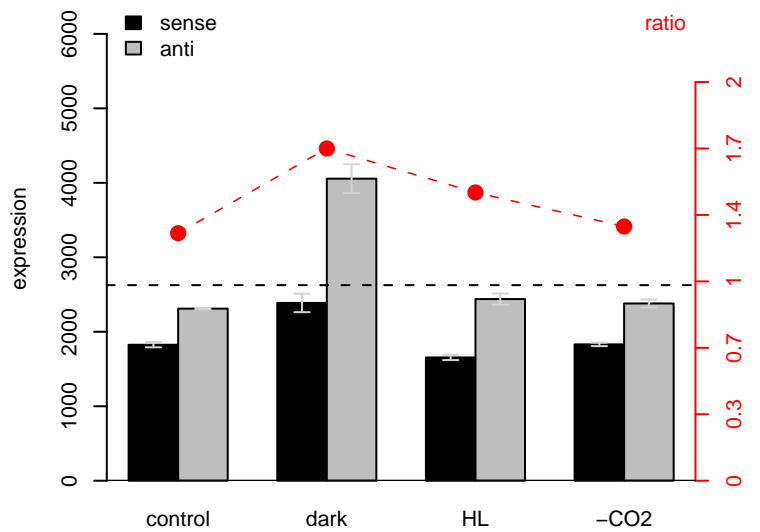


**slr1305**

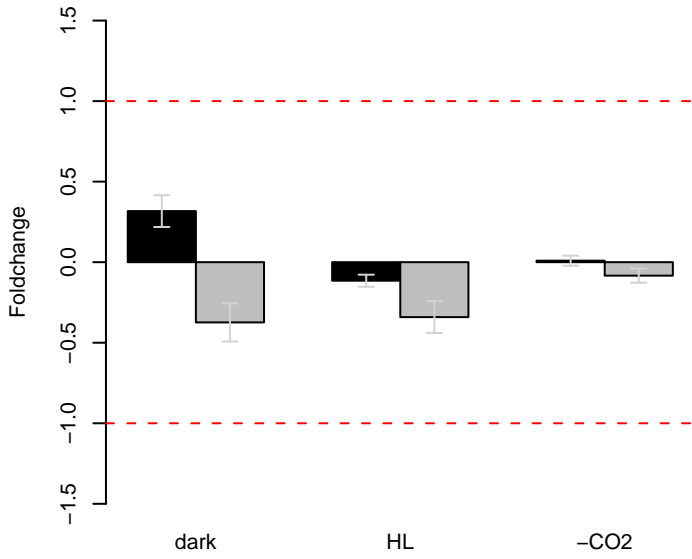


**genome\_429**

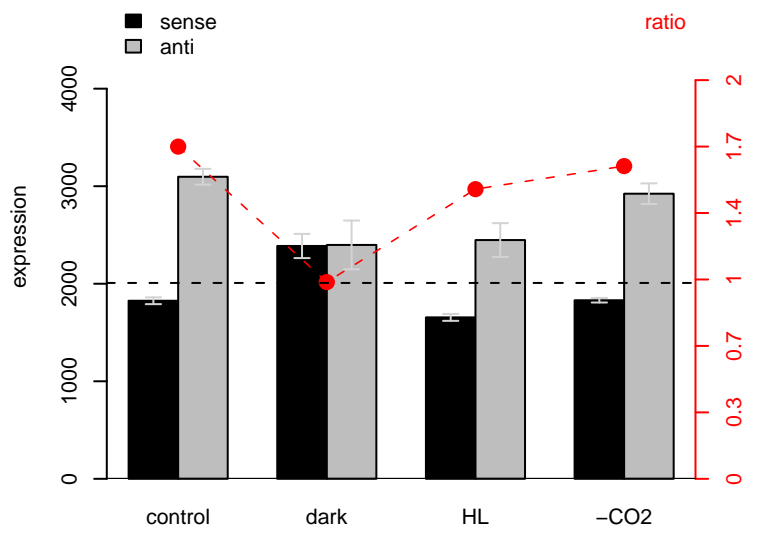


**slr0317****genome\_4312****sli0800****genome\_4318****sli0798****genome\_4326**

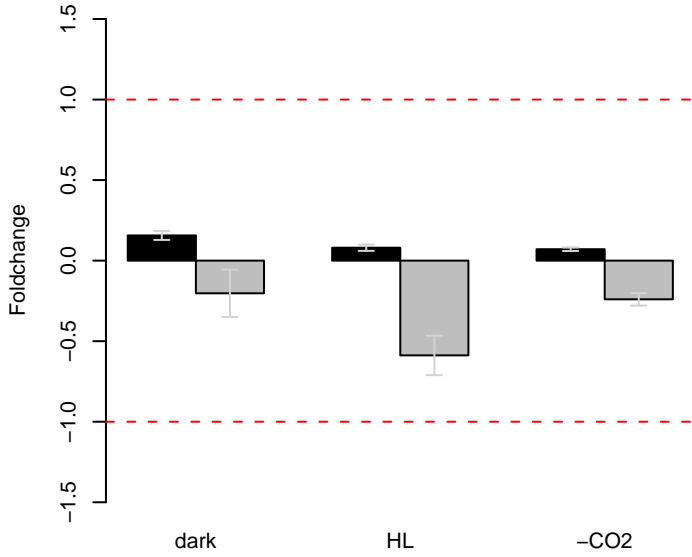
**sli0798**



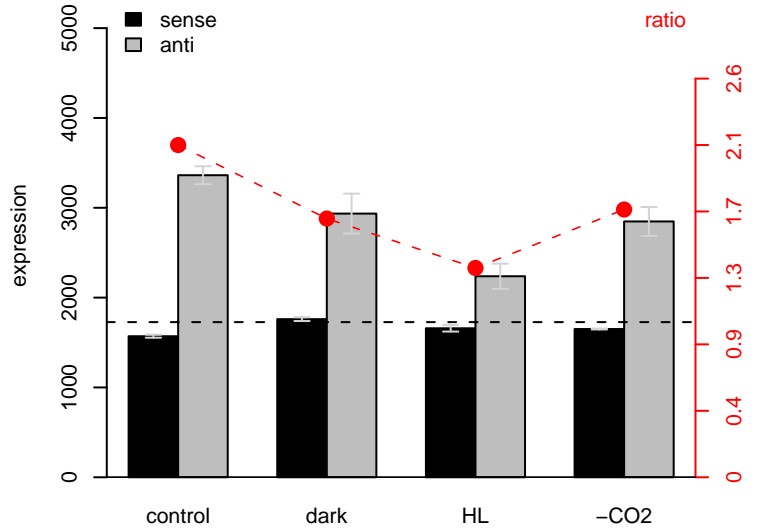
**genome\_4326**



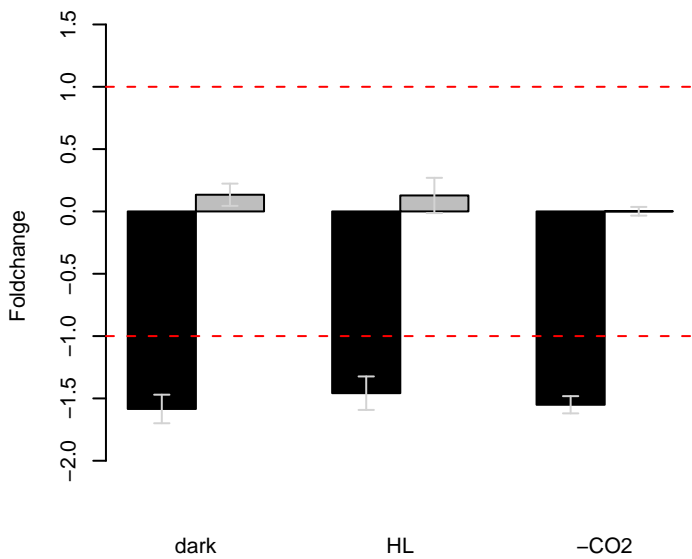
**slr0798**



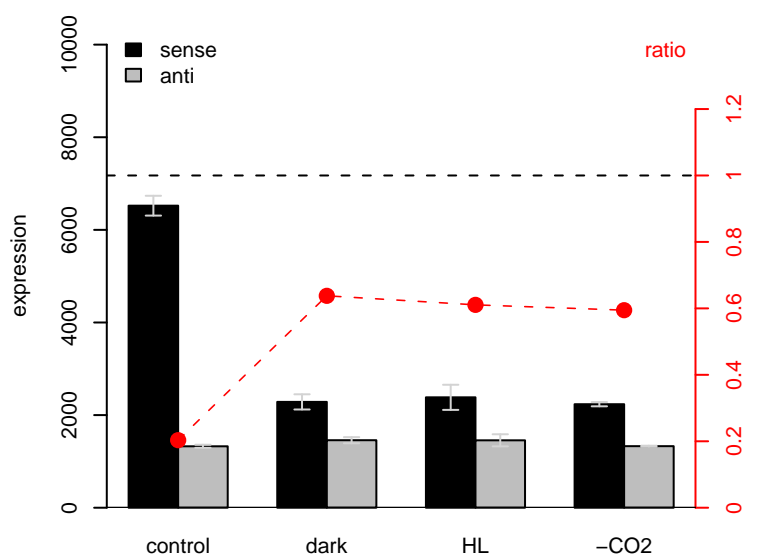
**genome\_4339**

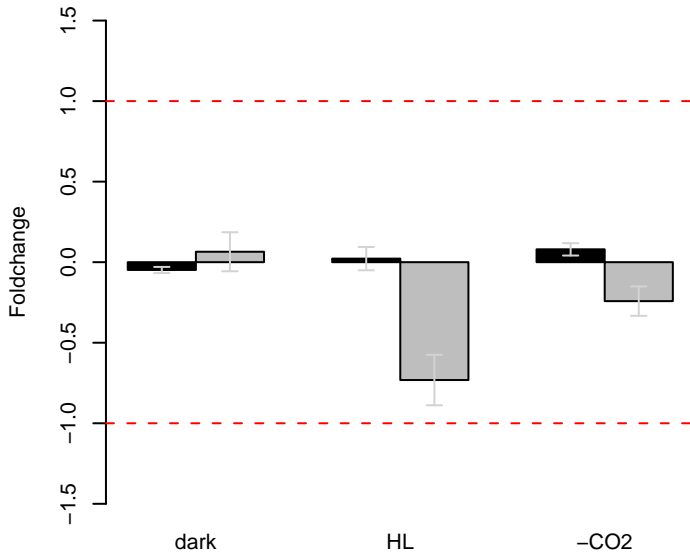
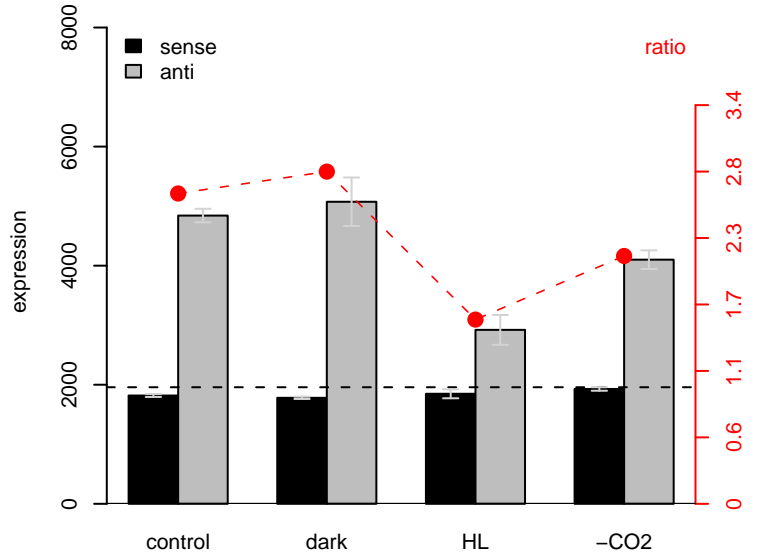
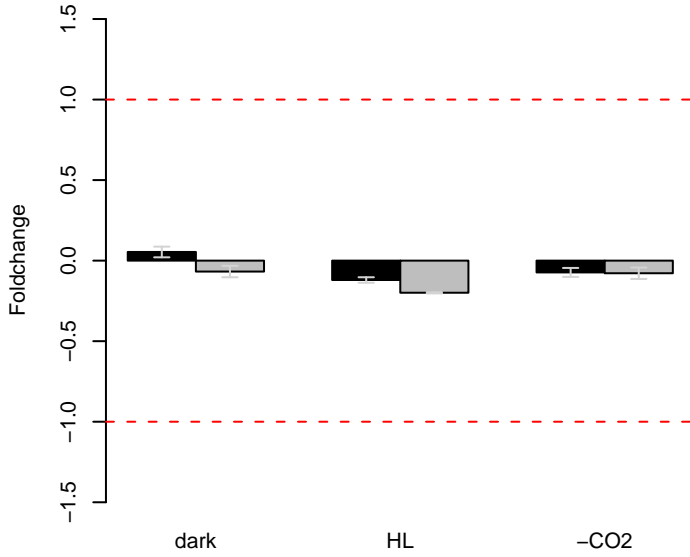
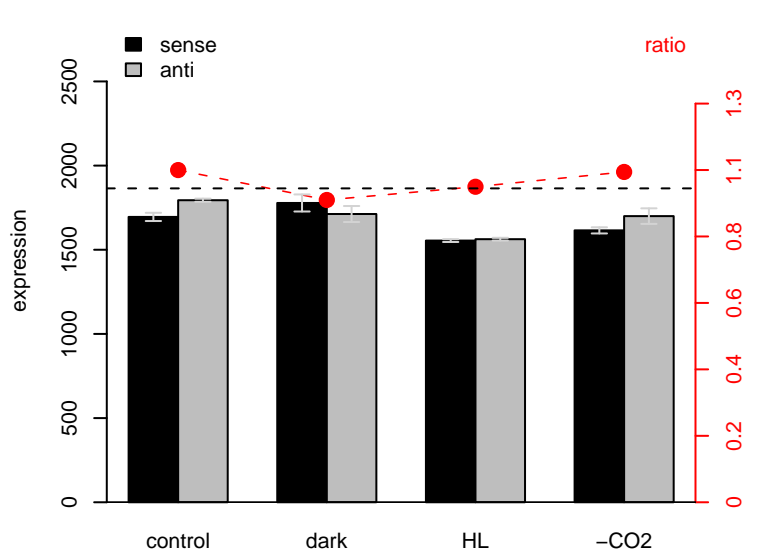
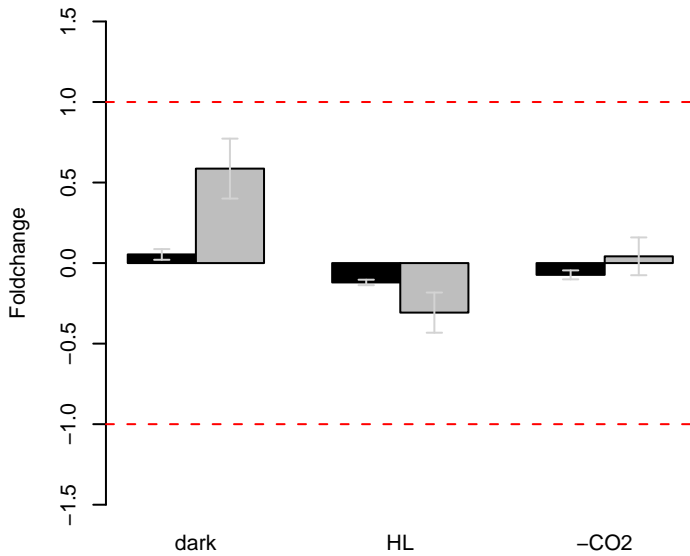
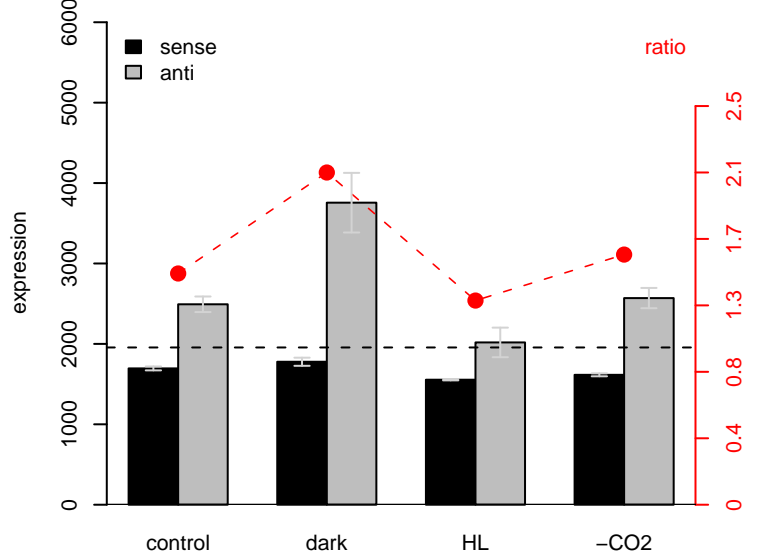


**hemF(sli1185)**

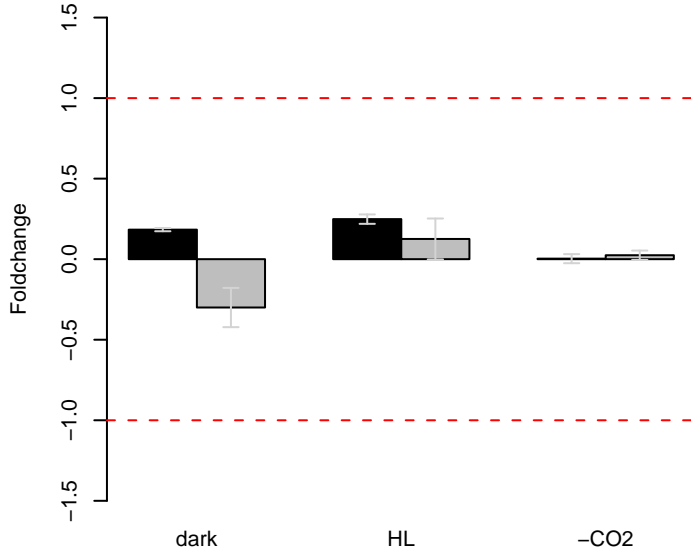
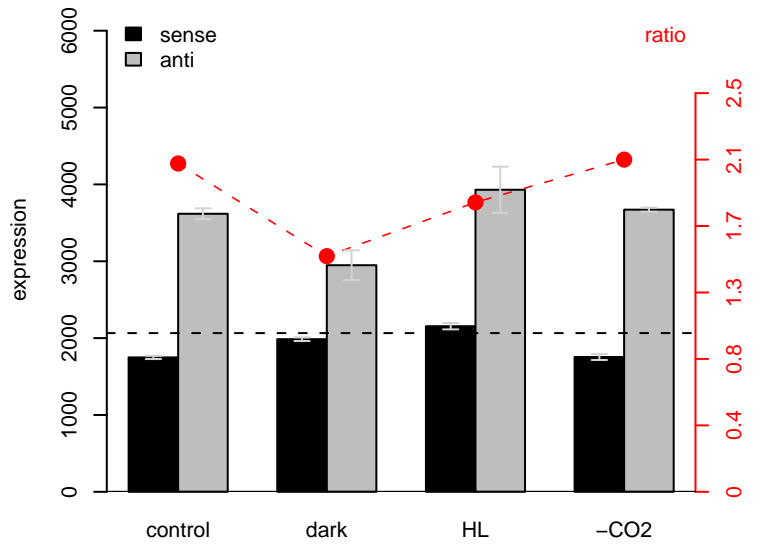
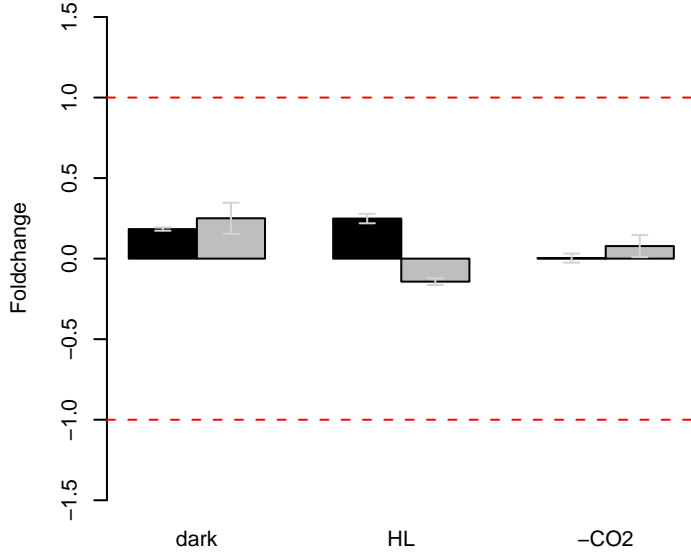
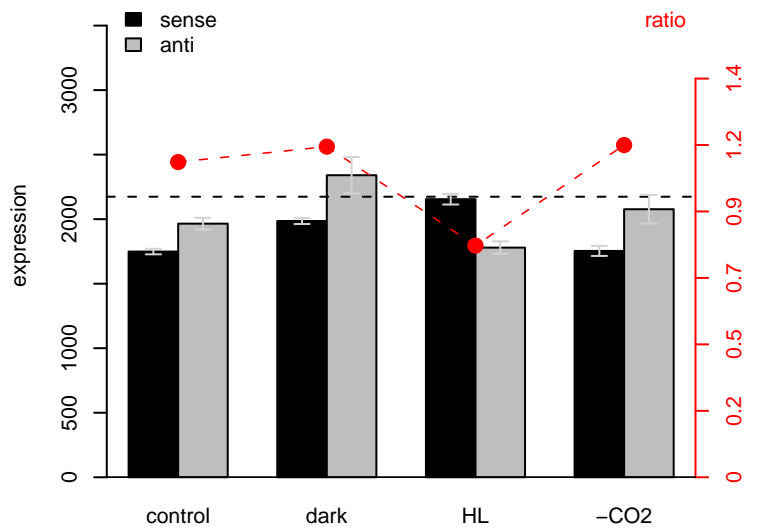
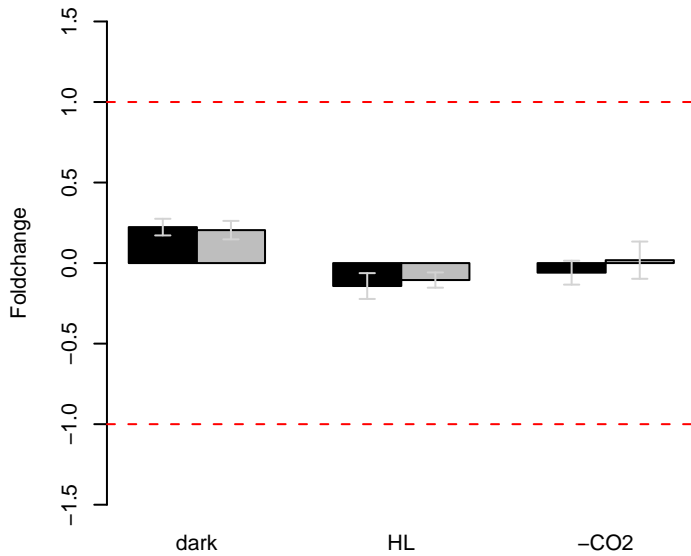
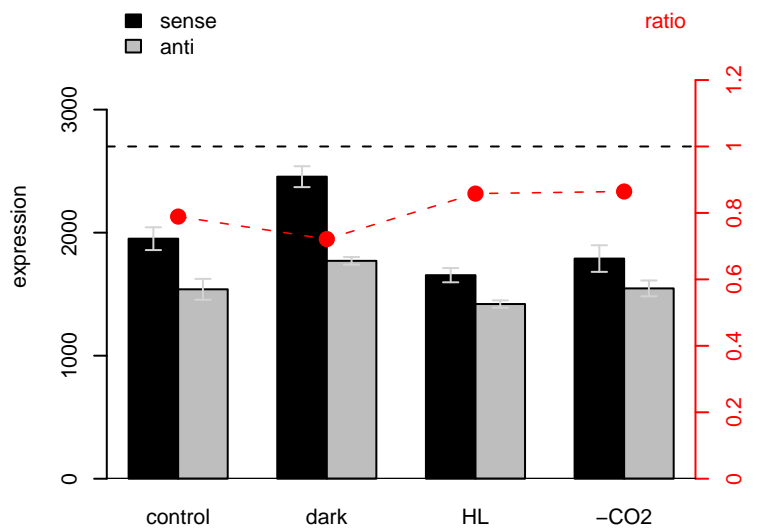


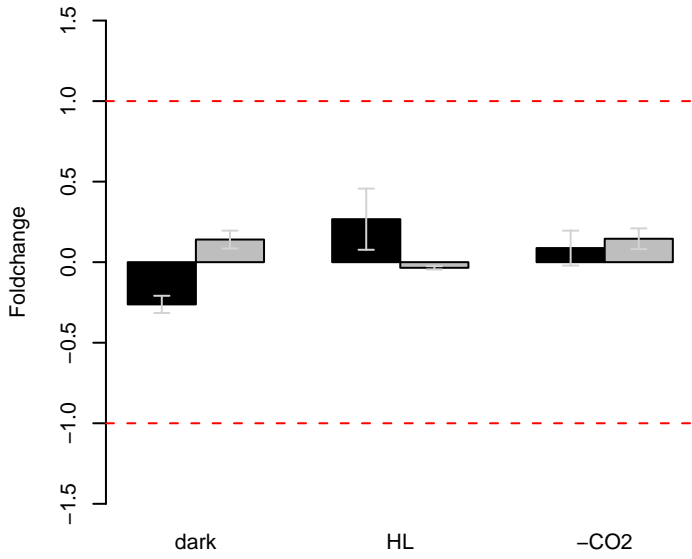
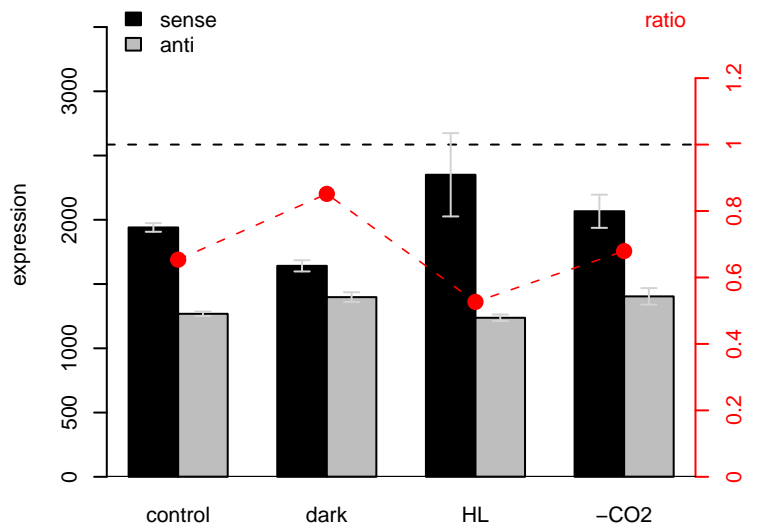
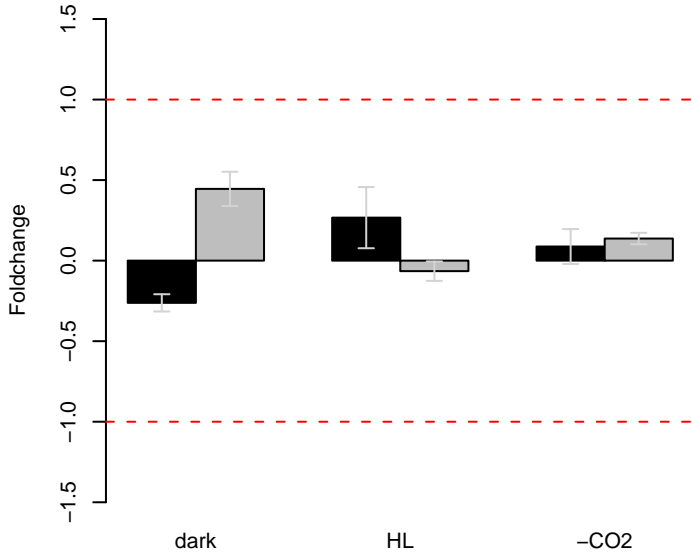
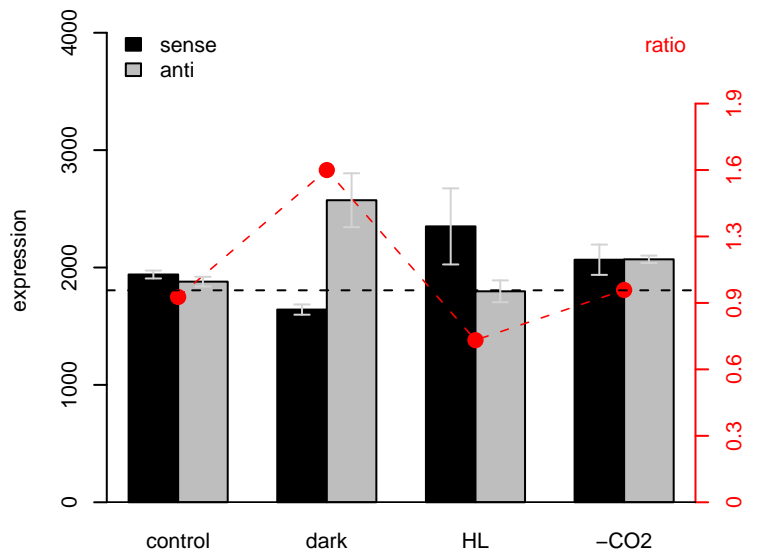
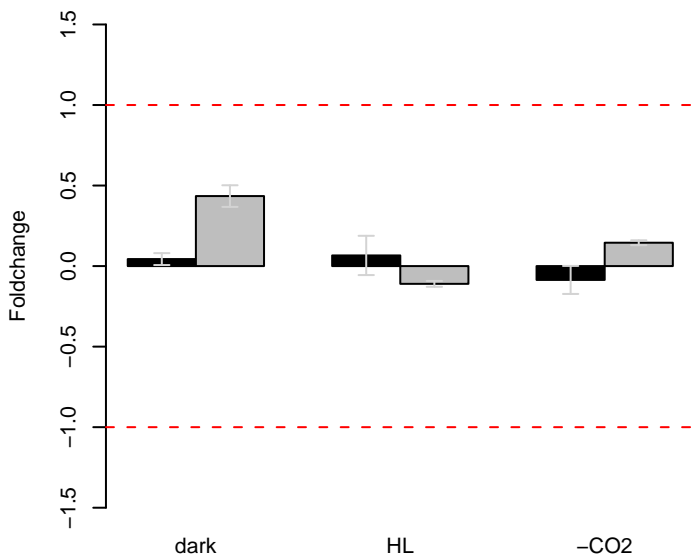
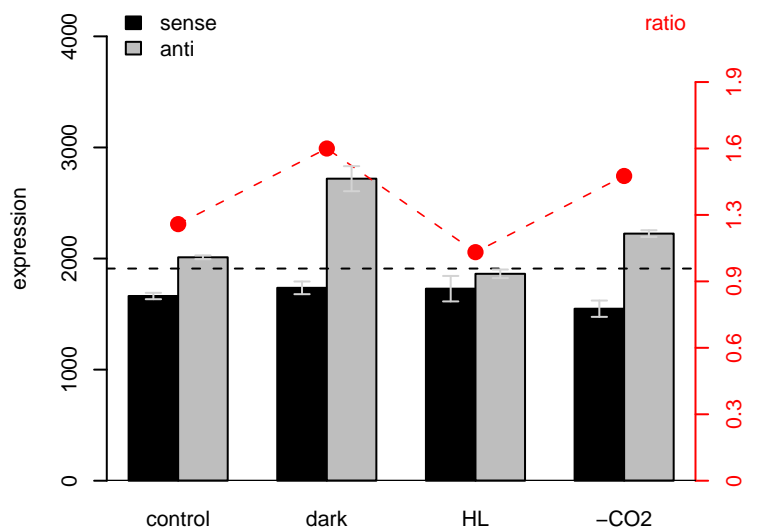
**genome\_435**



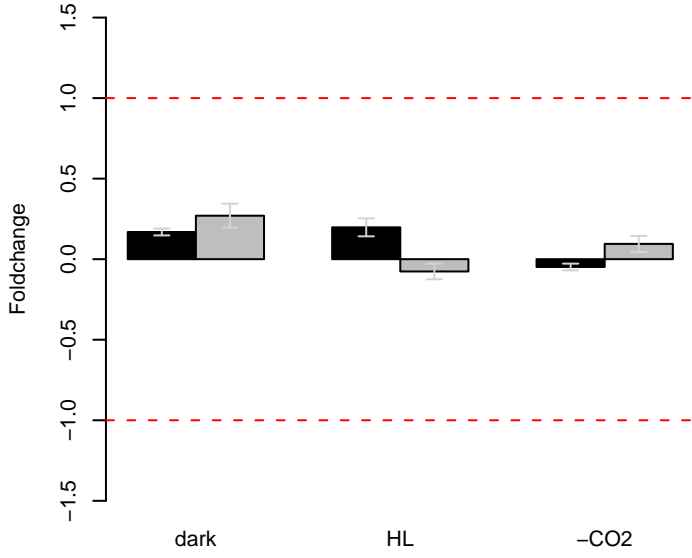
**sli0779****genome\_4359****sli0778****genome\_4361****sli0778****genome\_4361**



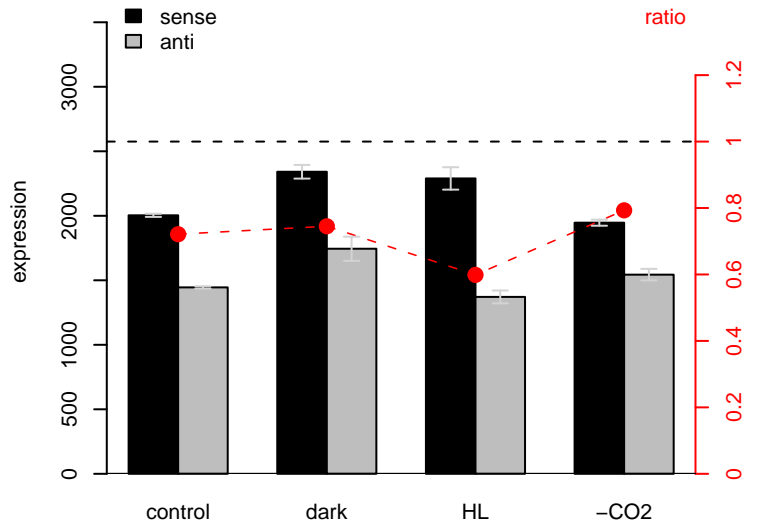
**slr0702****genome\_4373****slr0702****genome\_4373****slr0678****genome\_4376**

**sli0672****genome\_4386****sli0672****genome\_4386****slr1307****genome\_438**

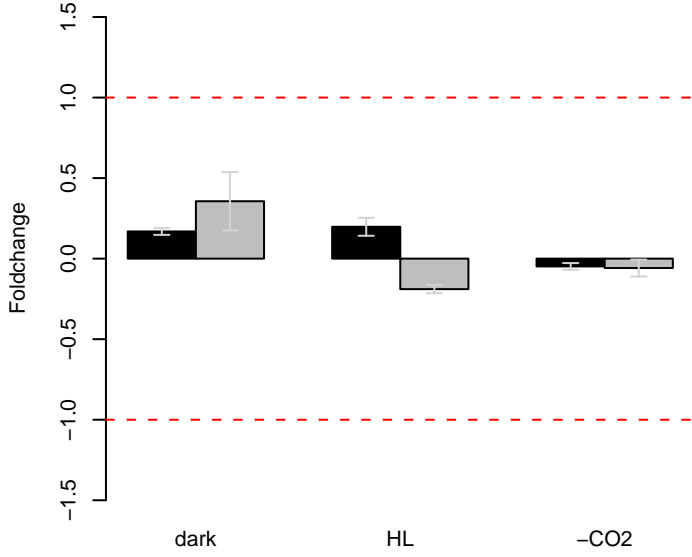
**polA(slr0707)**



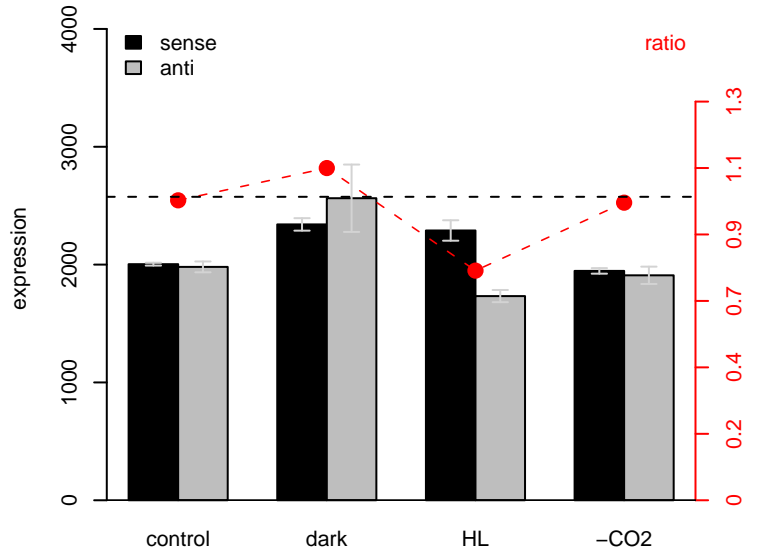
**genome\_4392**



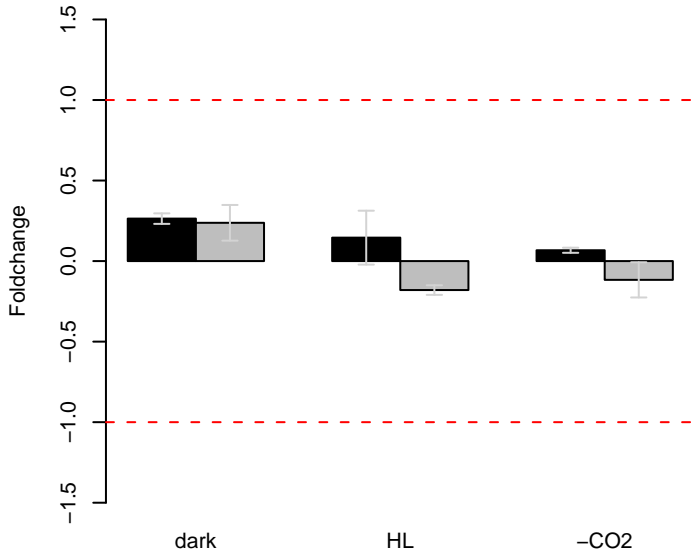
**polA(slr0707)**



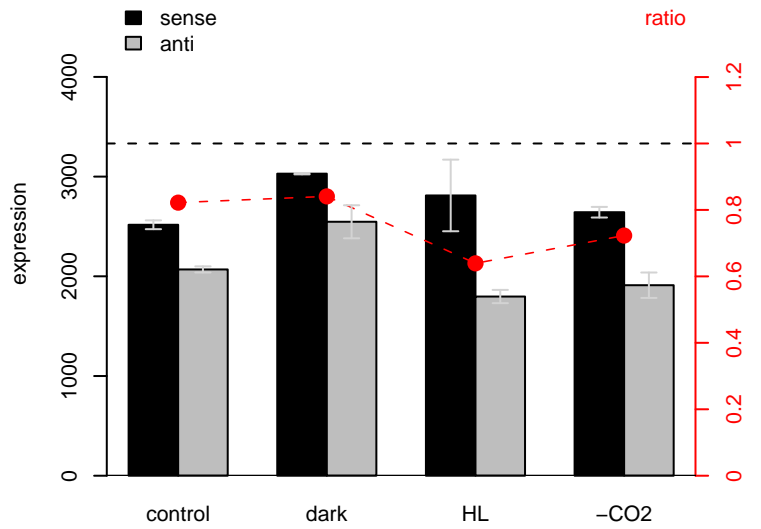
**genome\_4392**



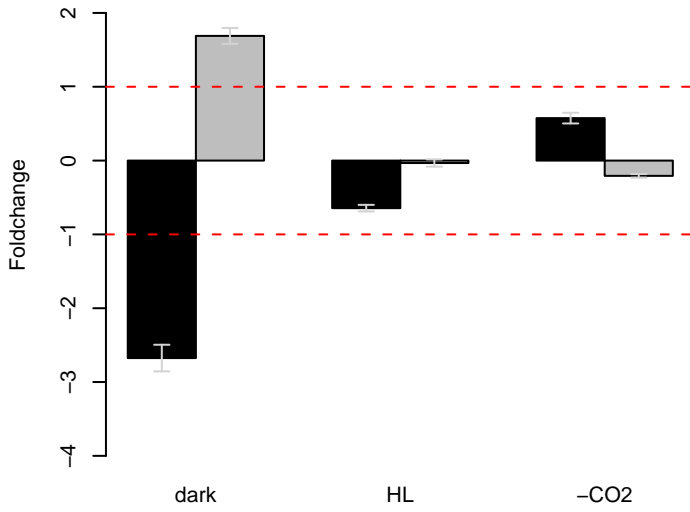
**gdhA(slr0710)**



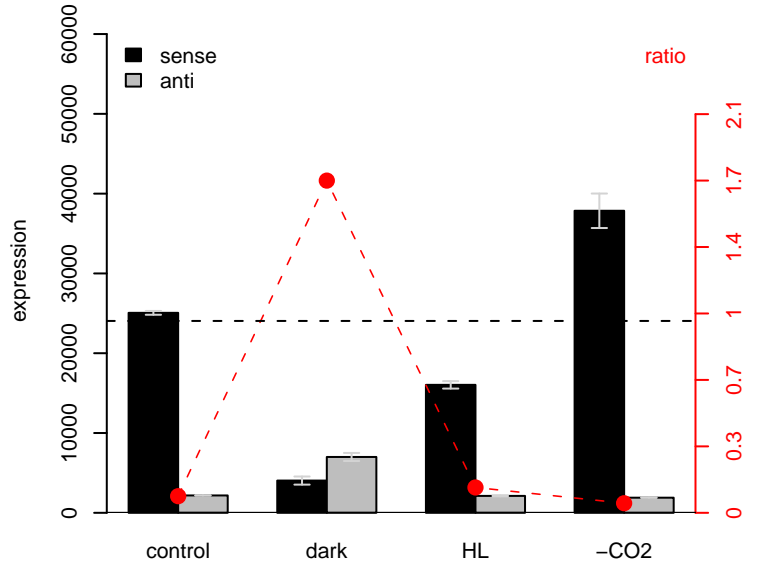
**genome\_4406**



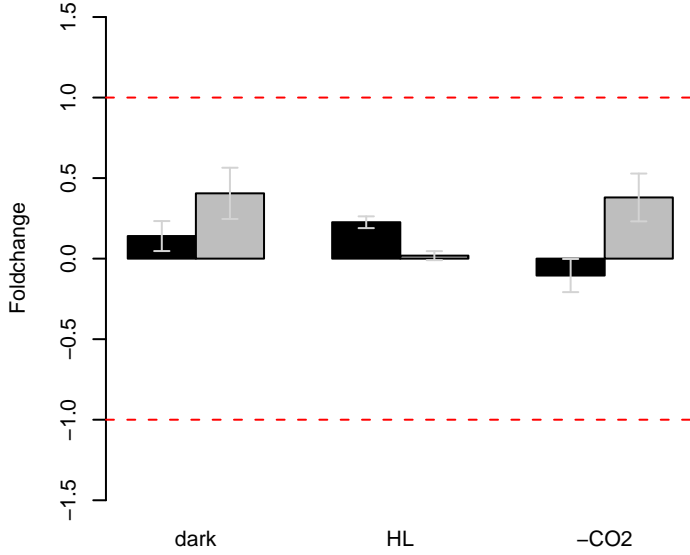
**ycf35(sll0661)**



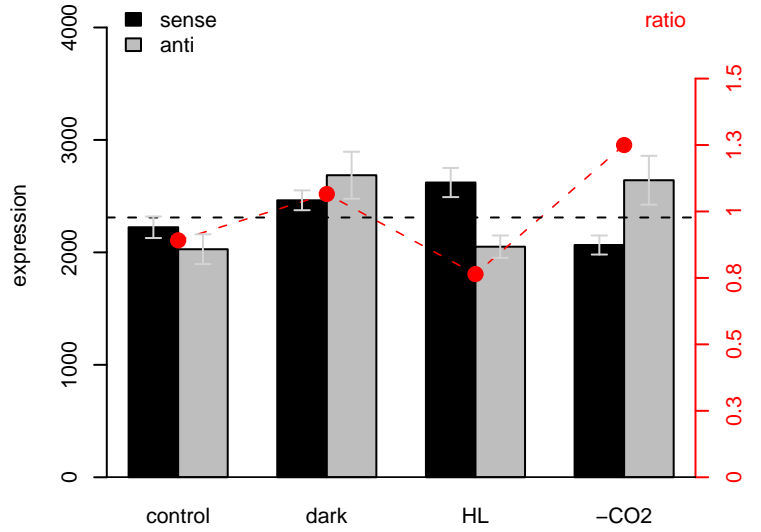
**genome\_4412**



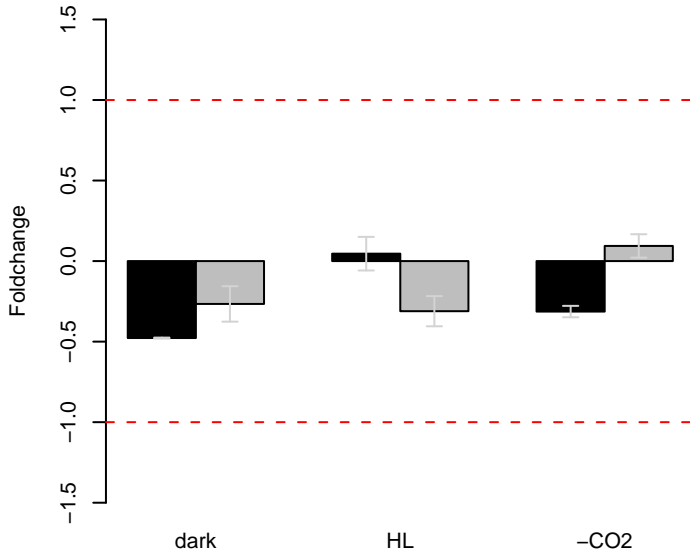
**tgt(slr0713)**



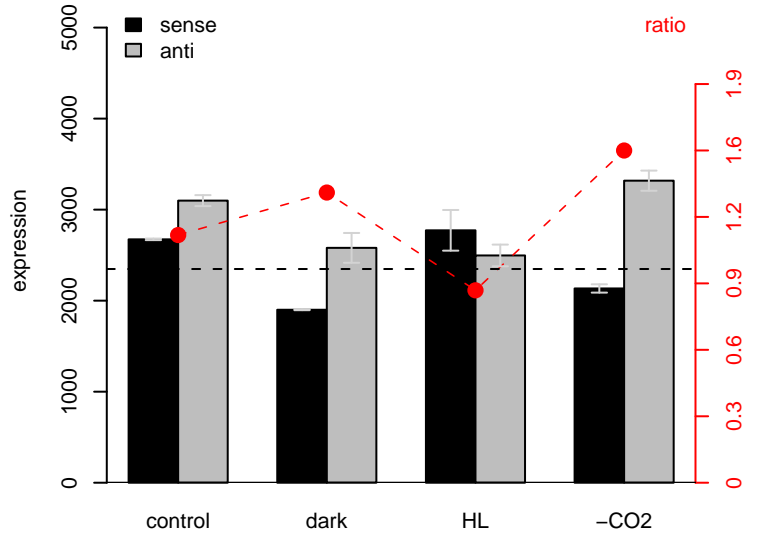
**genome\_4419**

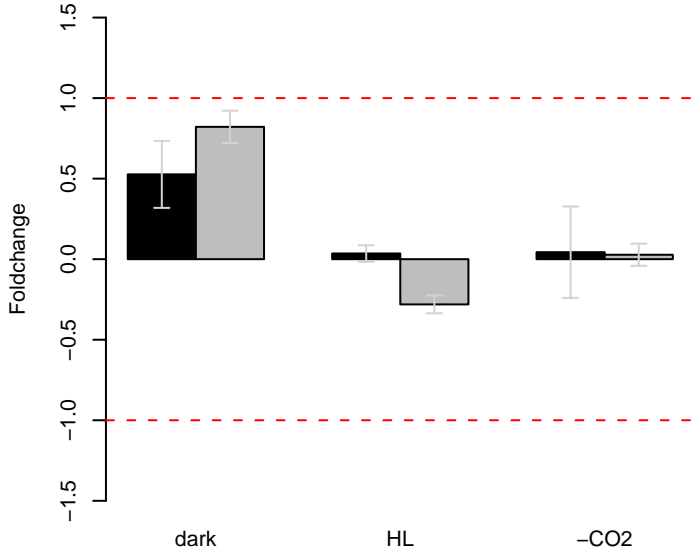
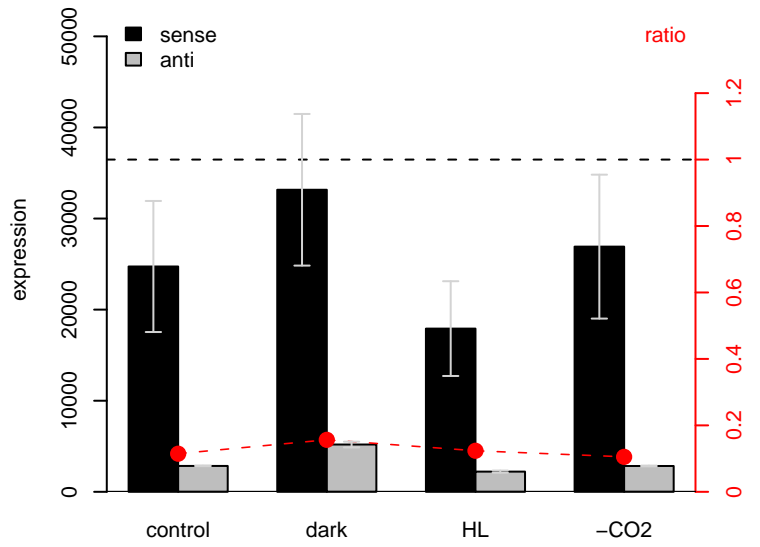
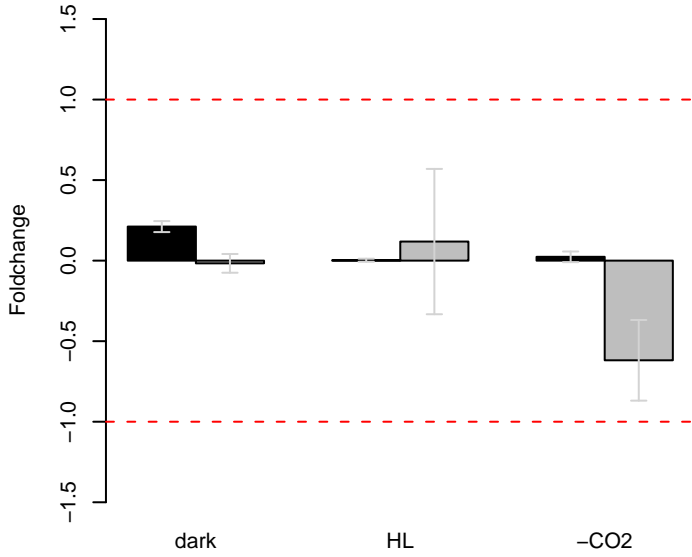
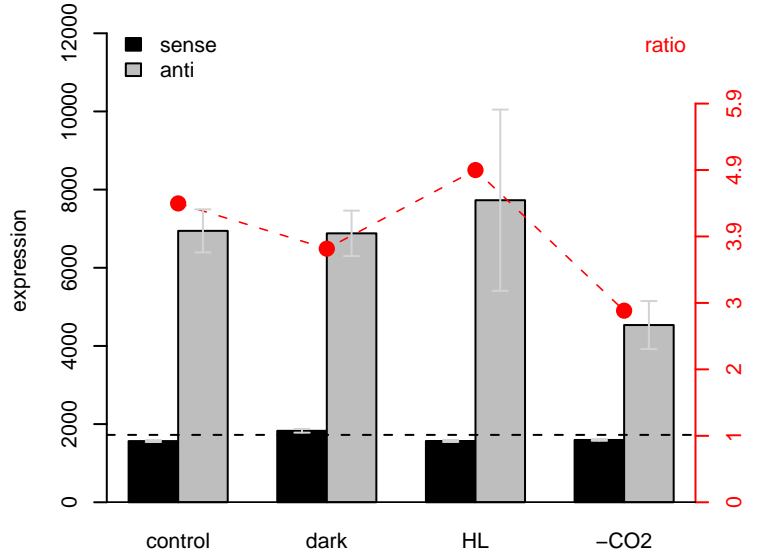
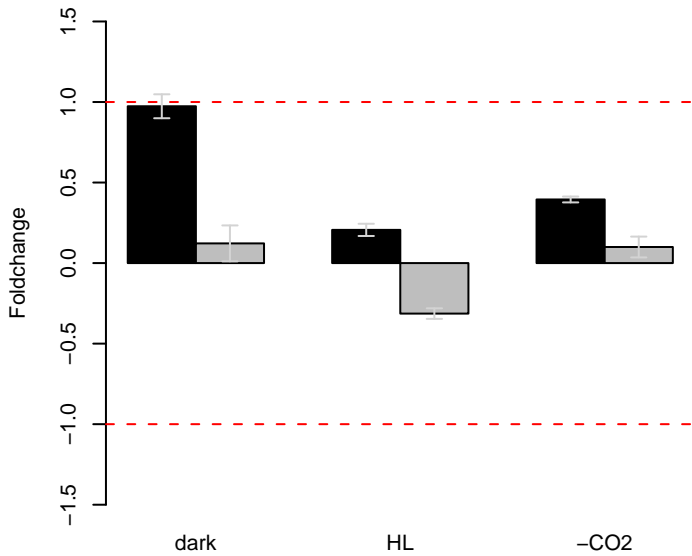
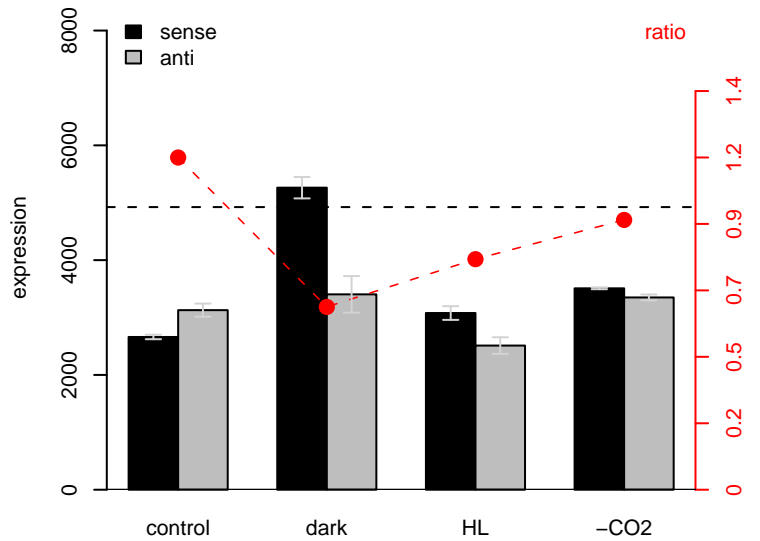


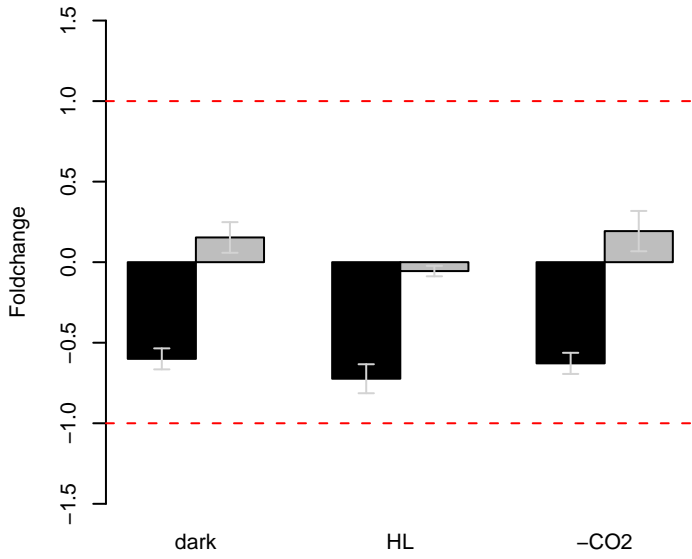
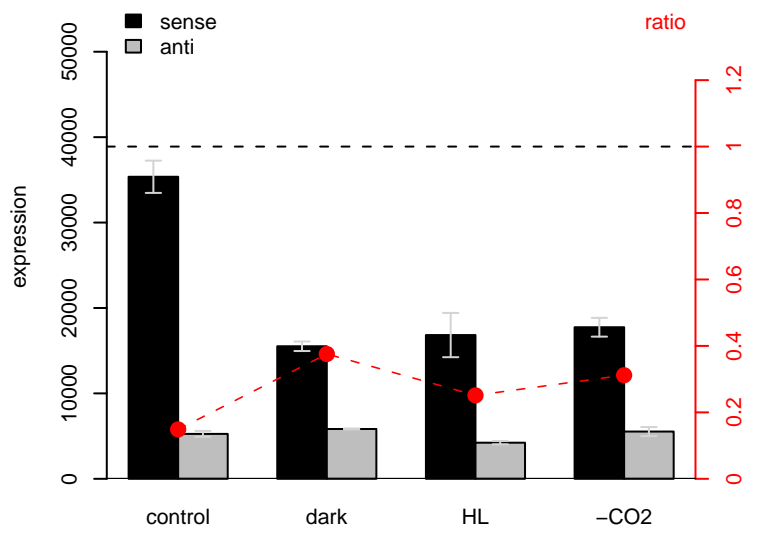
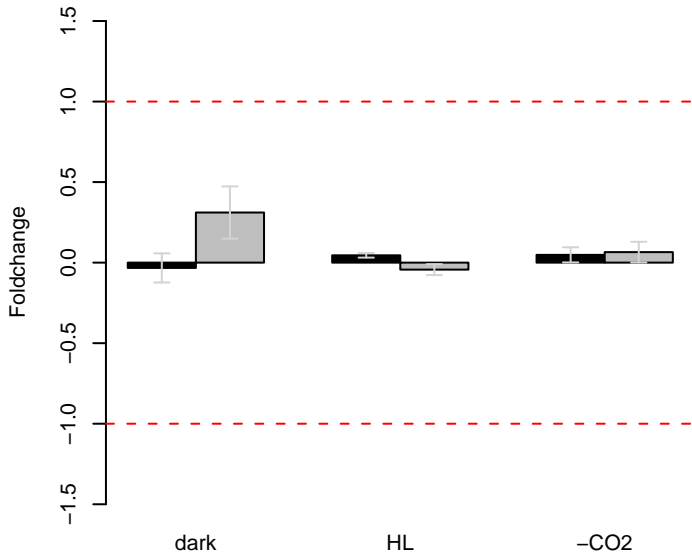
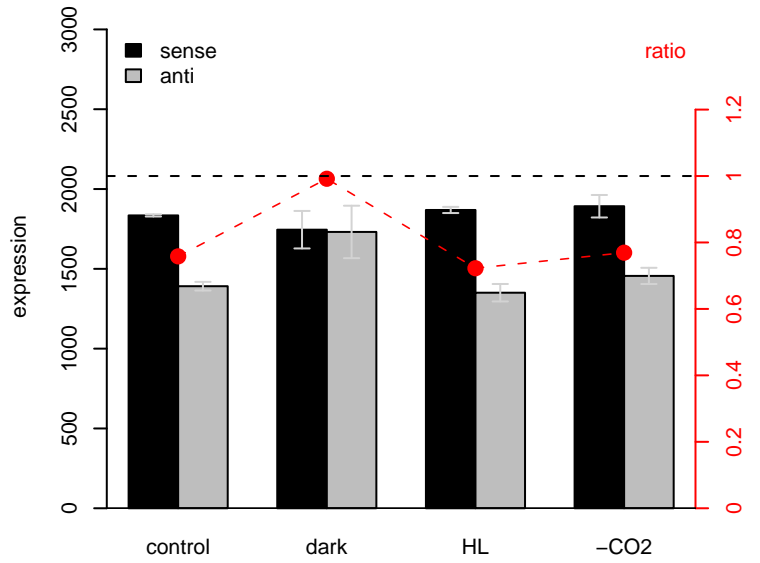
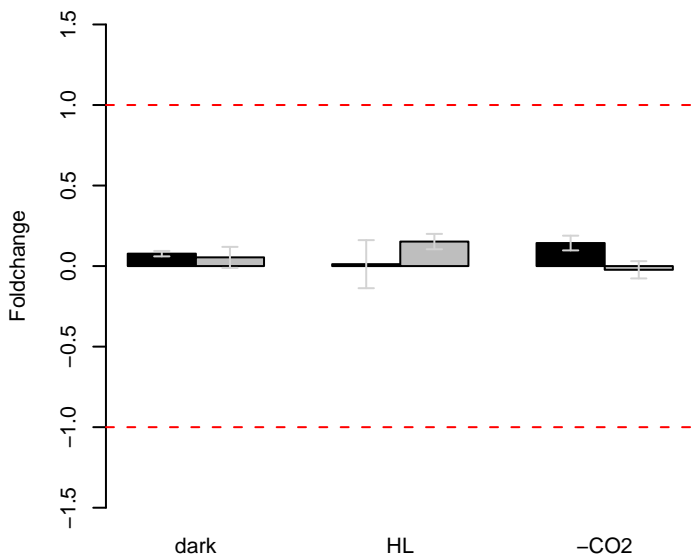
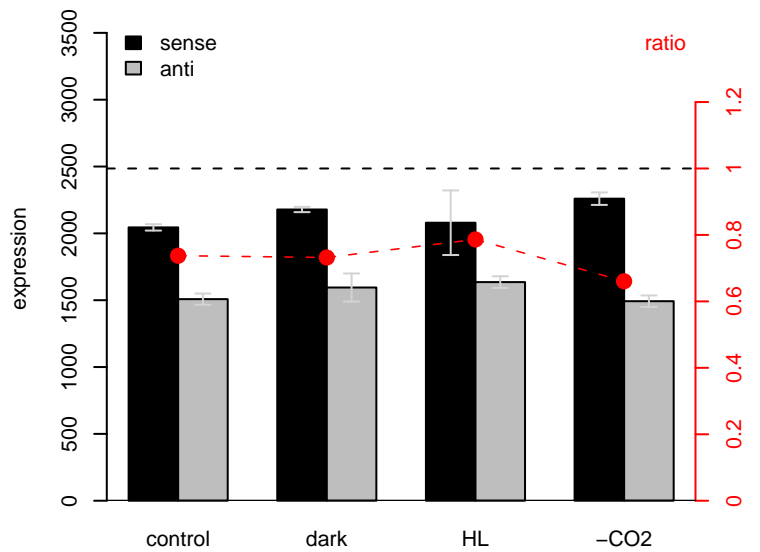
**mraY(sll0657)**

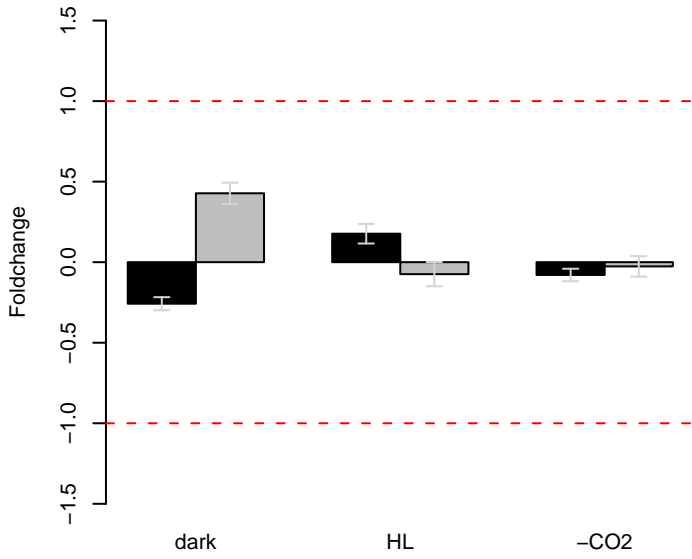
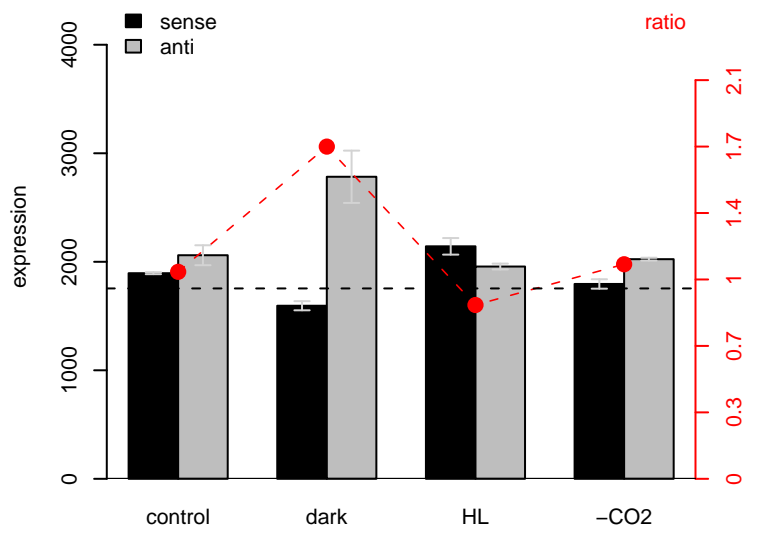
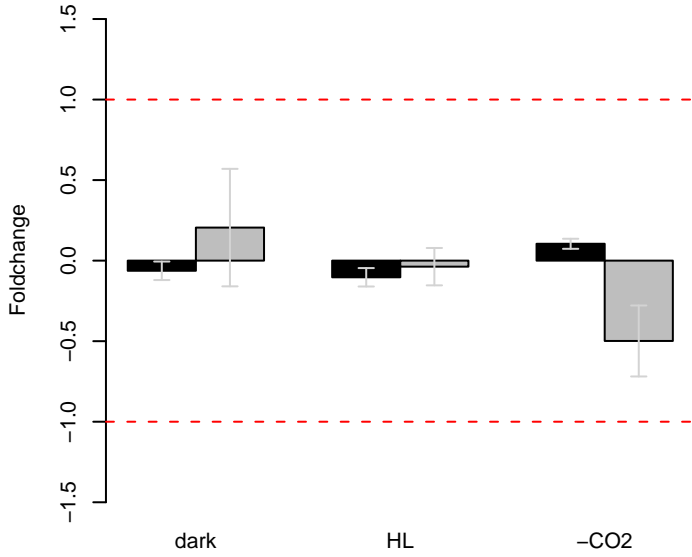
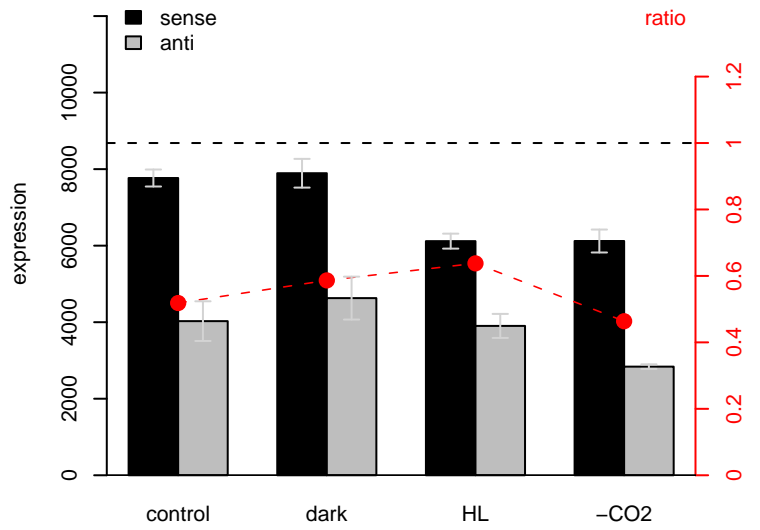
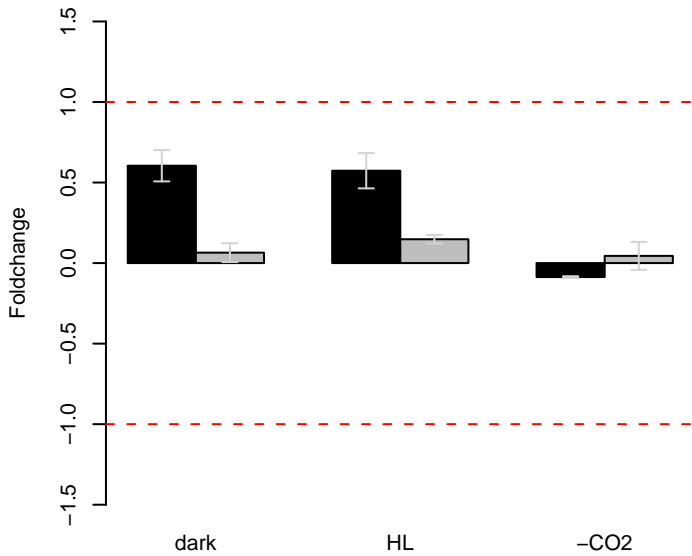
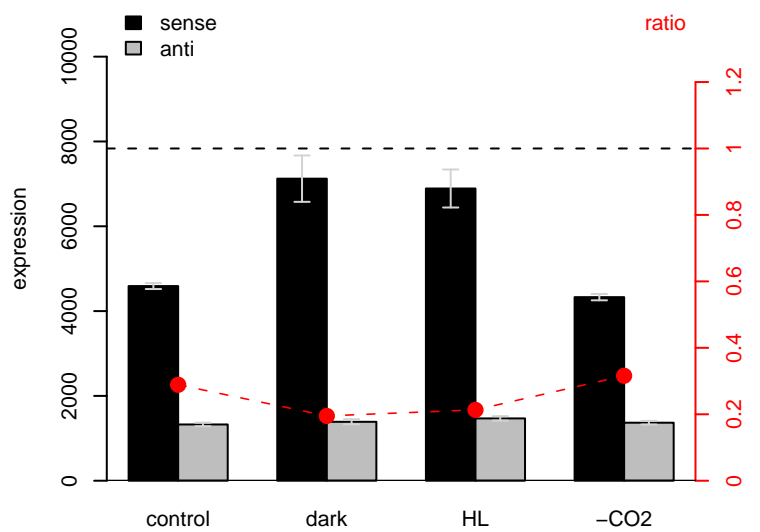


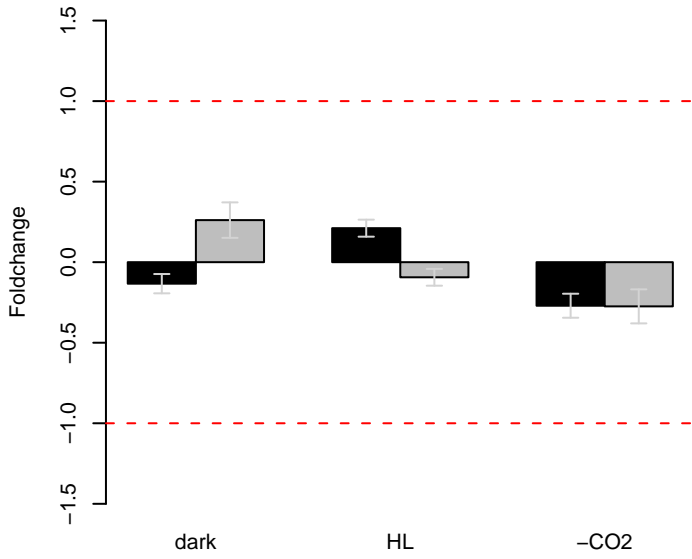
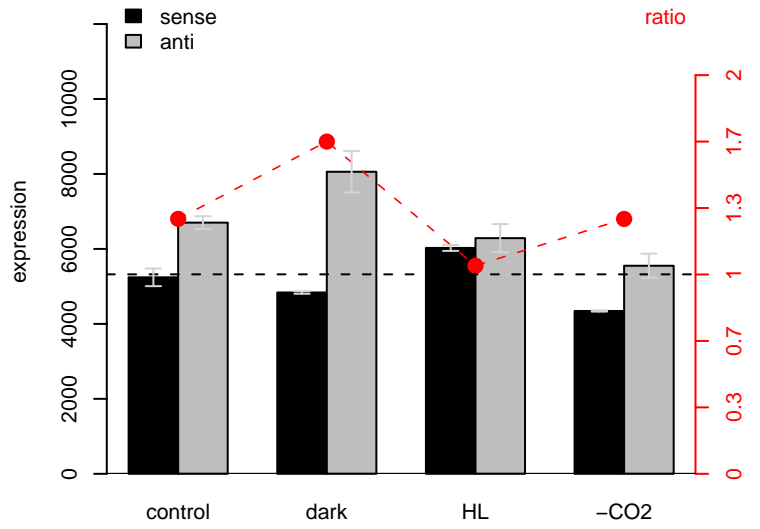
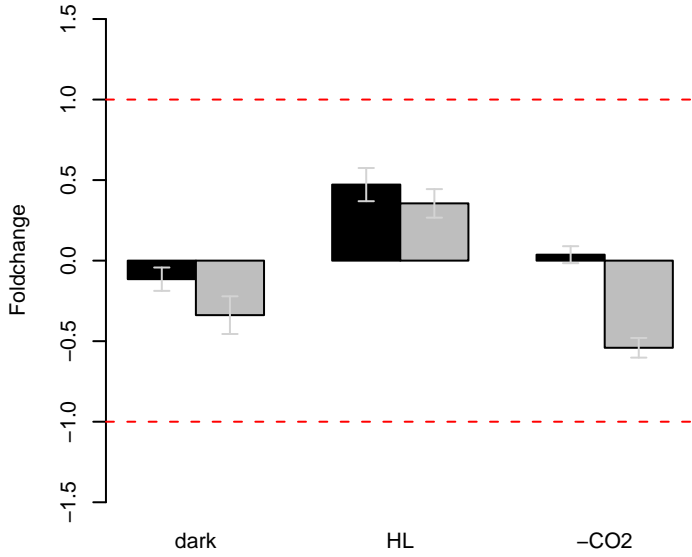
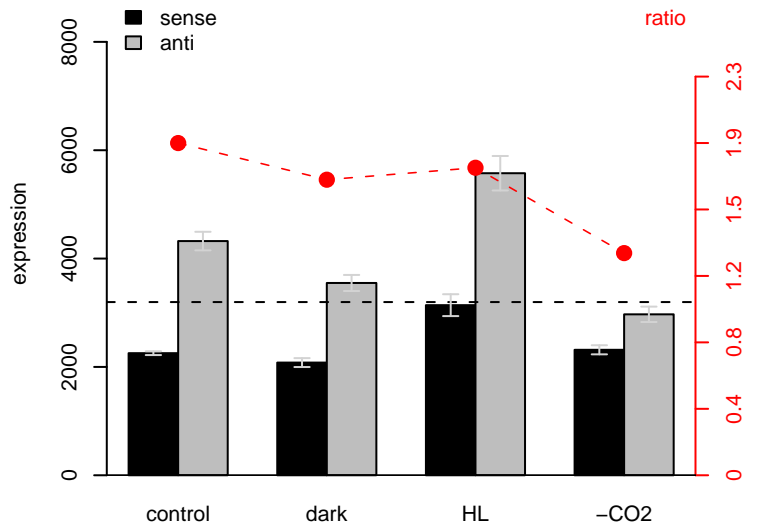
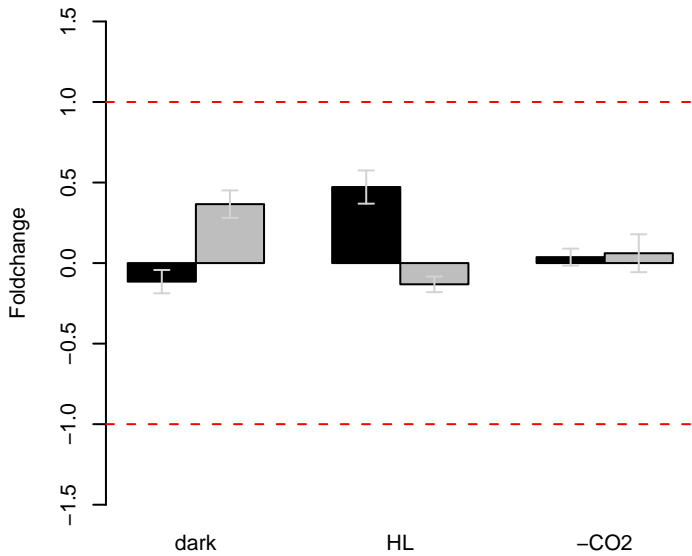
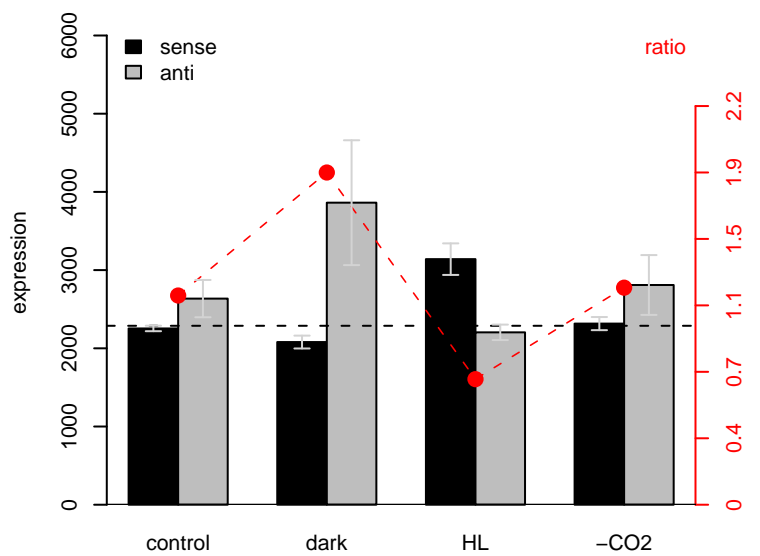
**genome\_4424**



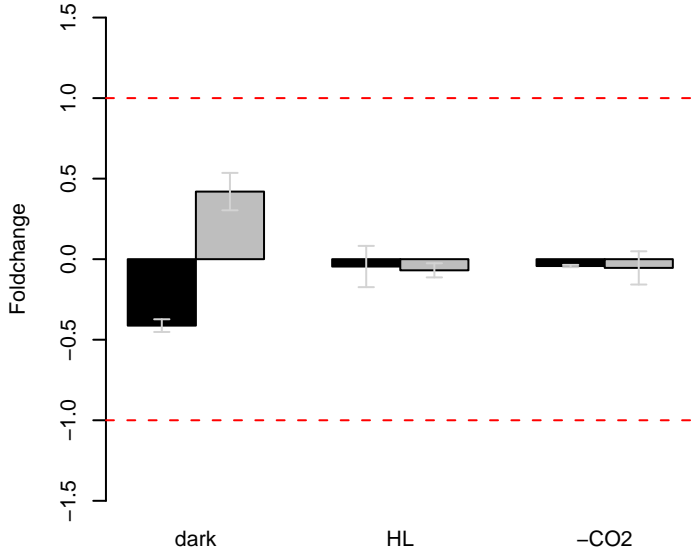
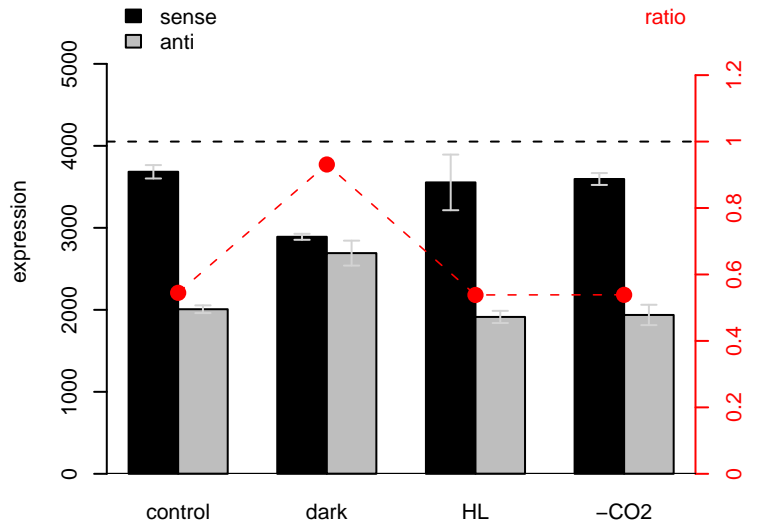
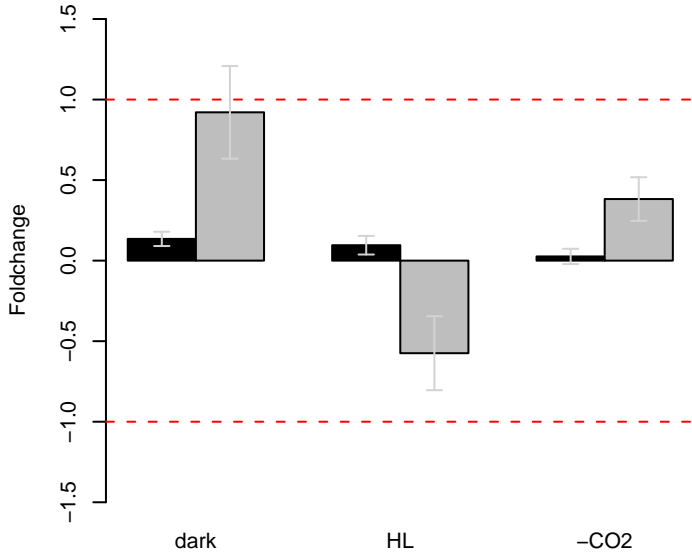
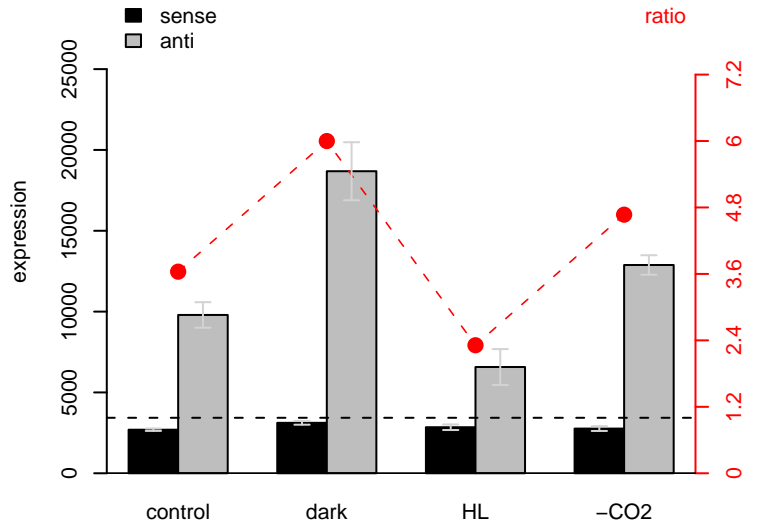
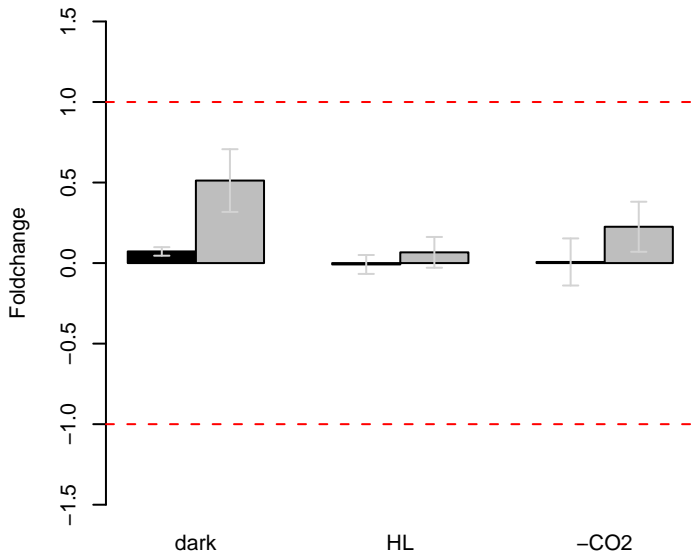
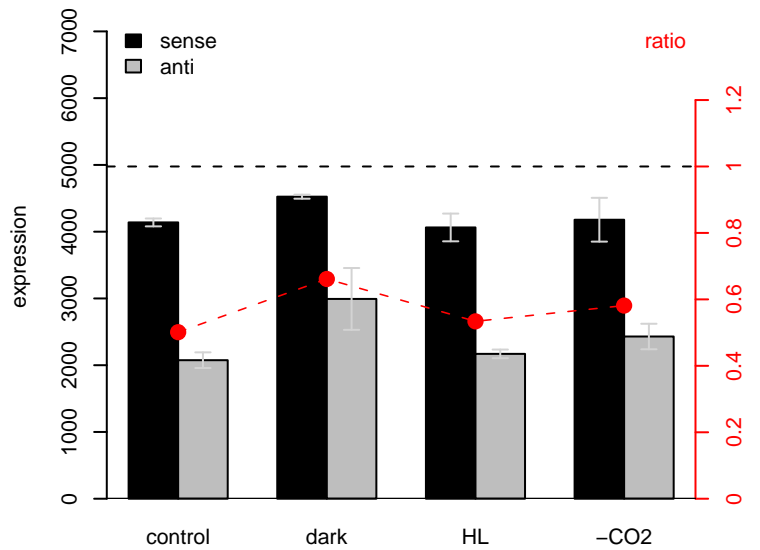
**6803t04****genome\_444****sli0739****genome\_4433****sli0048****genome\_4440**

**sli0047****genome\_4442****sps(sli0045)****genome\_4444****slr0023****genome\_4446**

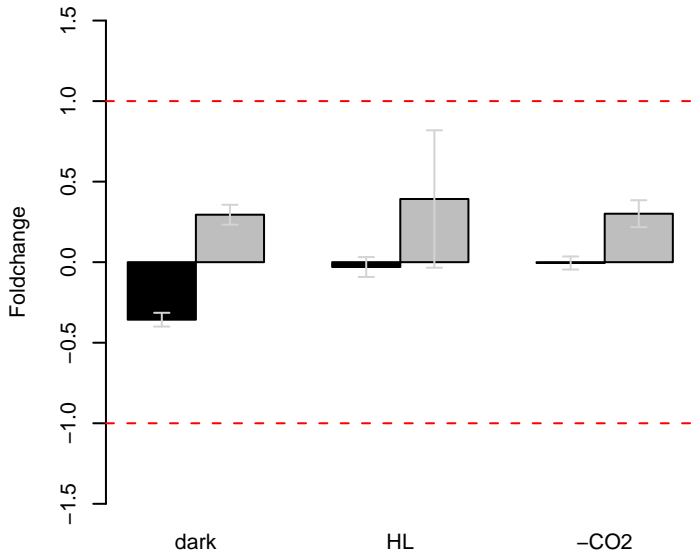
**sli0044****genome\_4448****slr0031****genome\_4459****ilvE(slr0032)****genome\_4461**

**slr0033****genome\_4463****sli0037****genome\_4466****sli0037****genome\_4466**

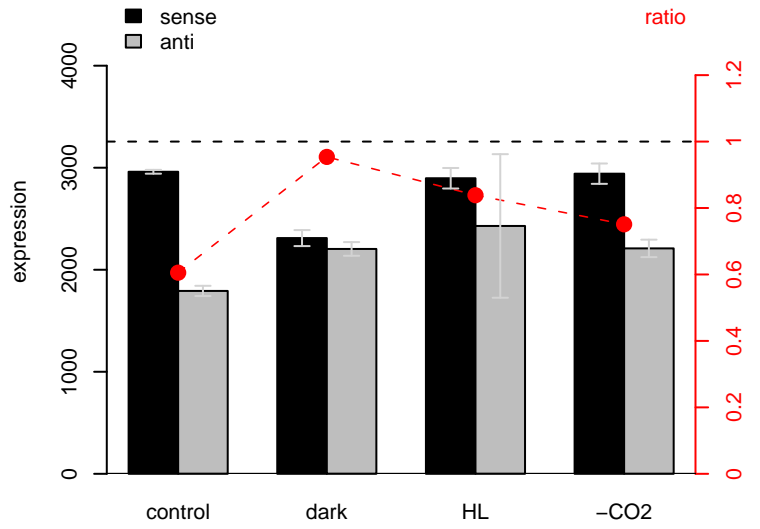


**slr0963****genome\_446****slr0033****genome\_4472****slr0038****genome\_4479**

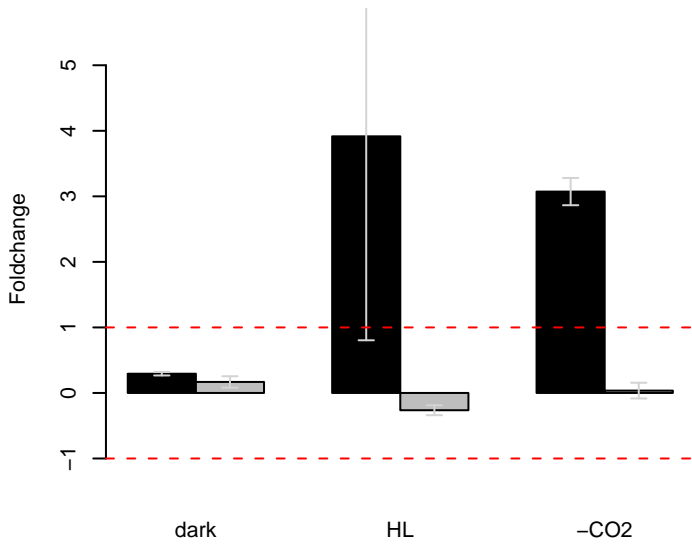
**slr0039**



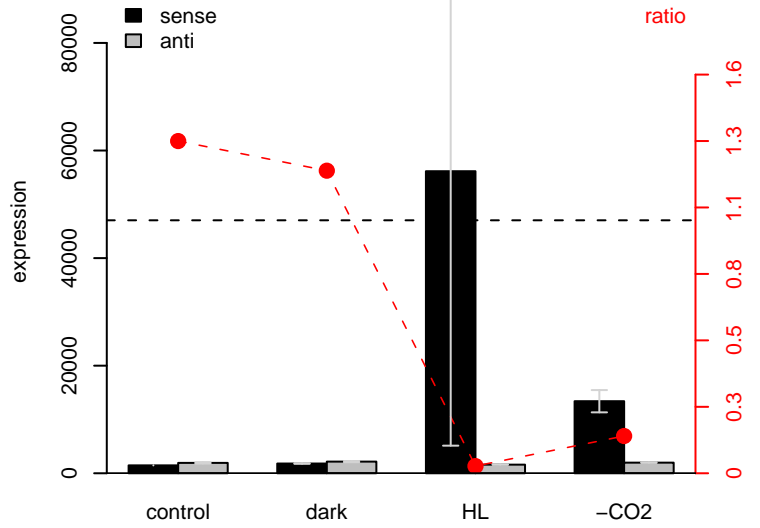
**genome\_4481**



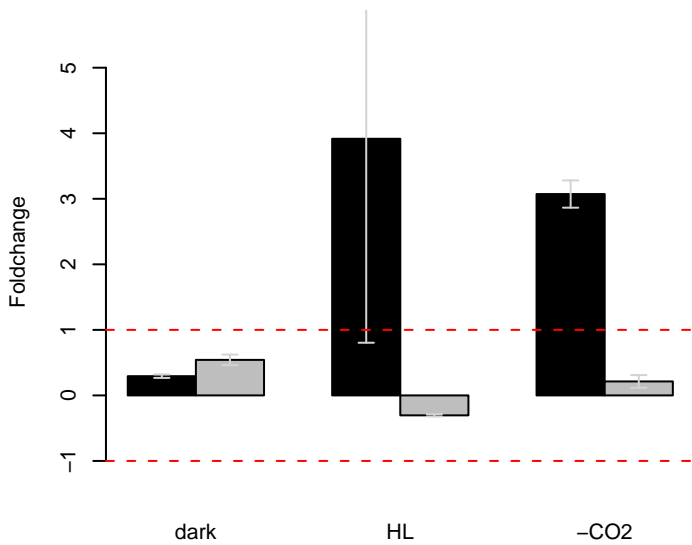
**cmpA(slr0040)**



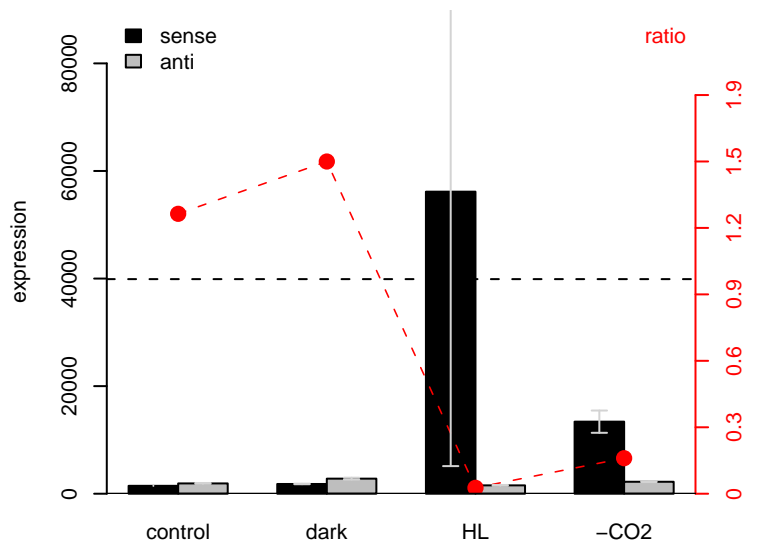
**genome\_4484**



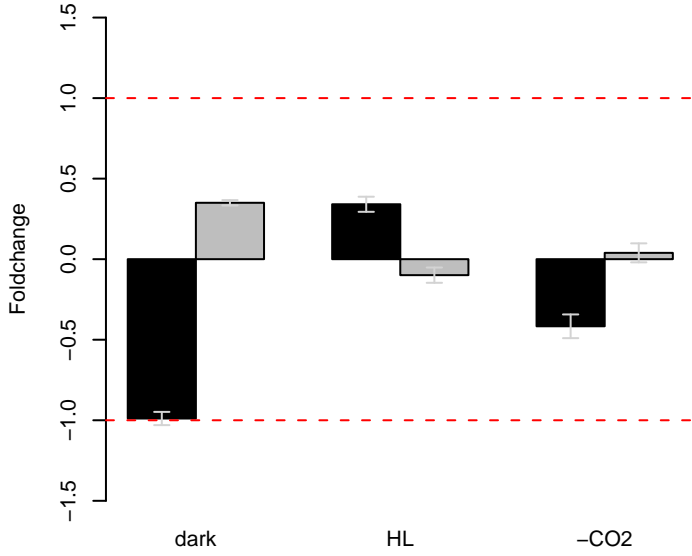
**cmpA(slr0040)**



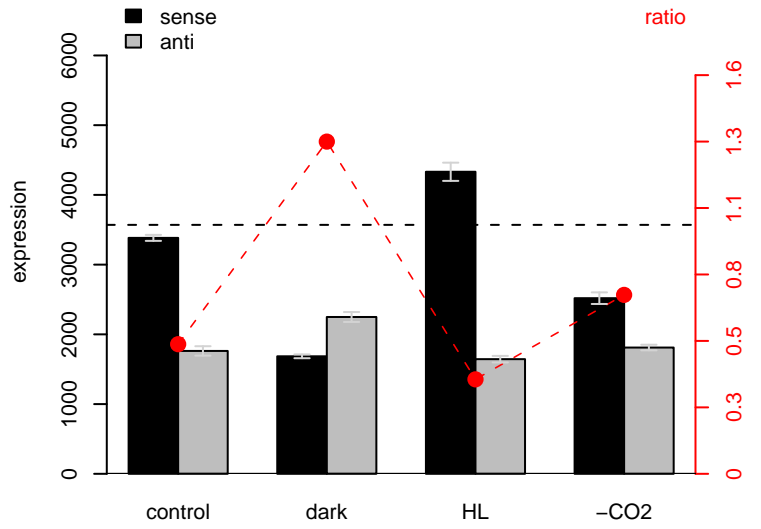
**genome\_4484**



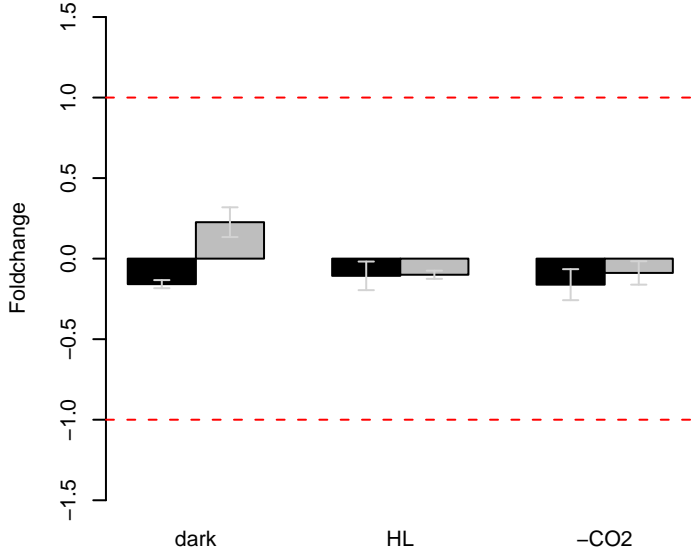
**ndhF(sll0026)**



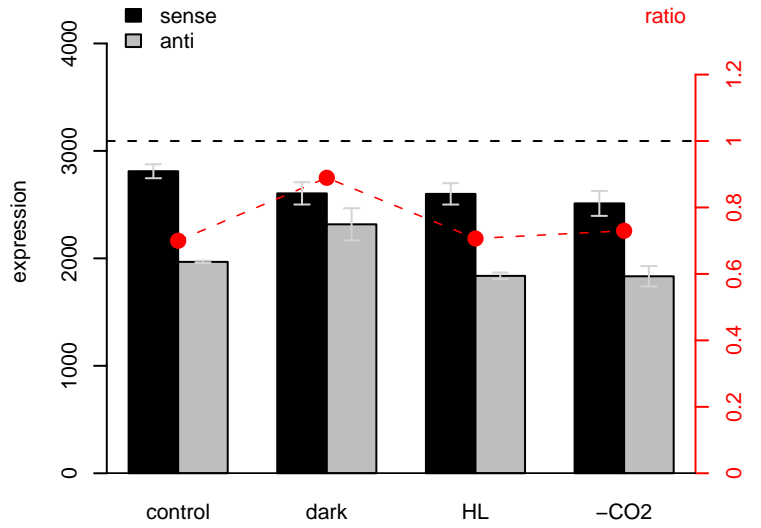
**genome\_4494**



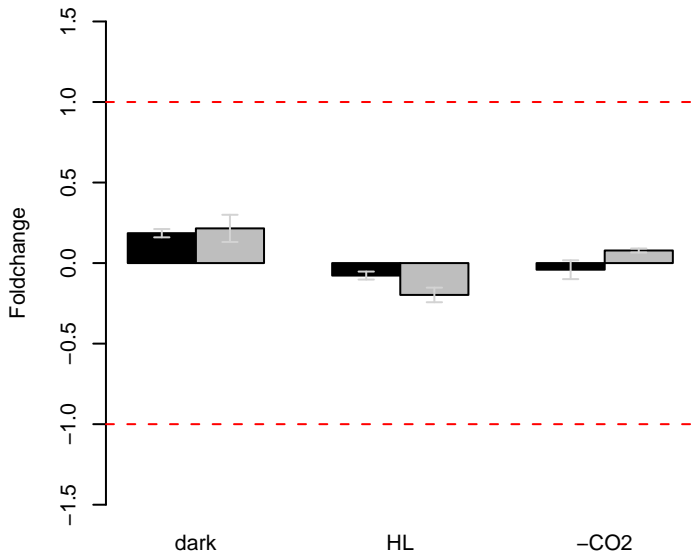
**murE(slr0528)**



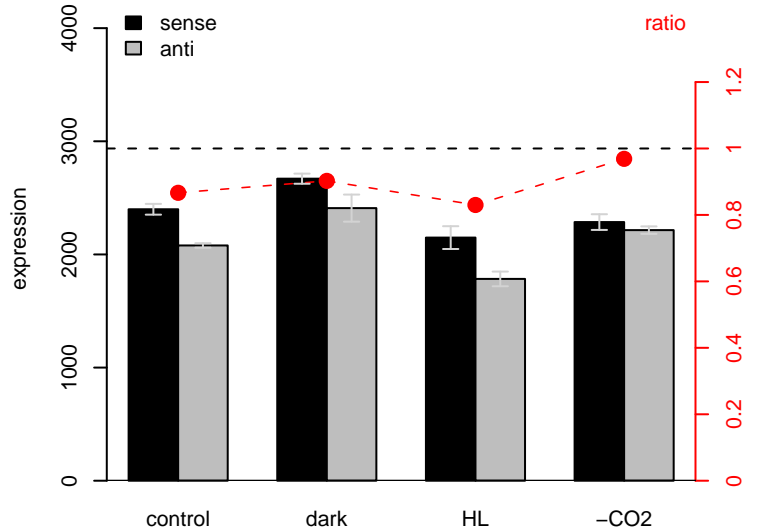
**genome\_4501**



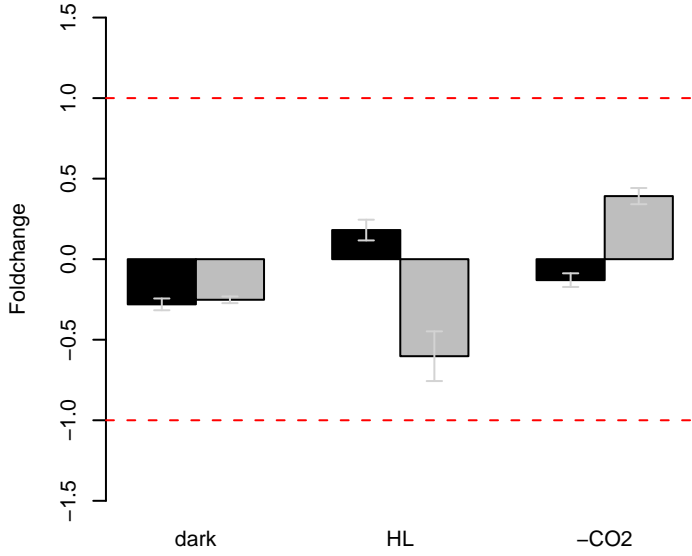
**sll0514**



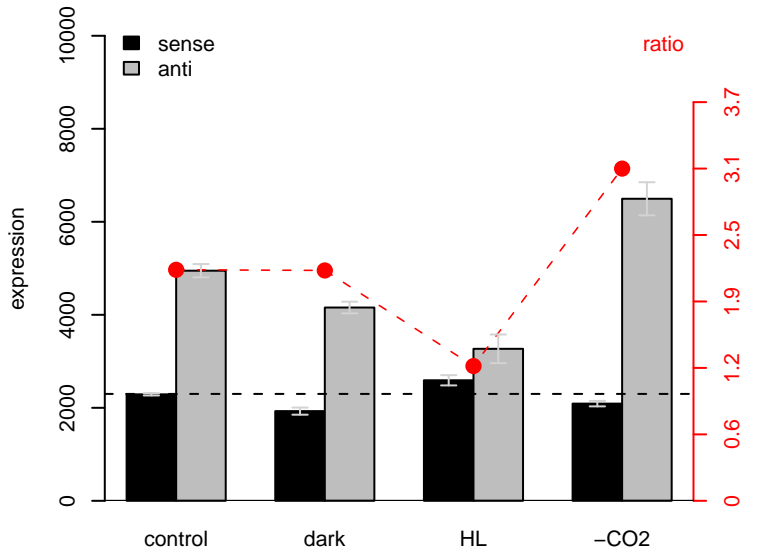
**genome\_4503**



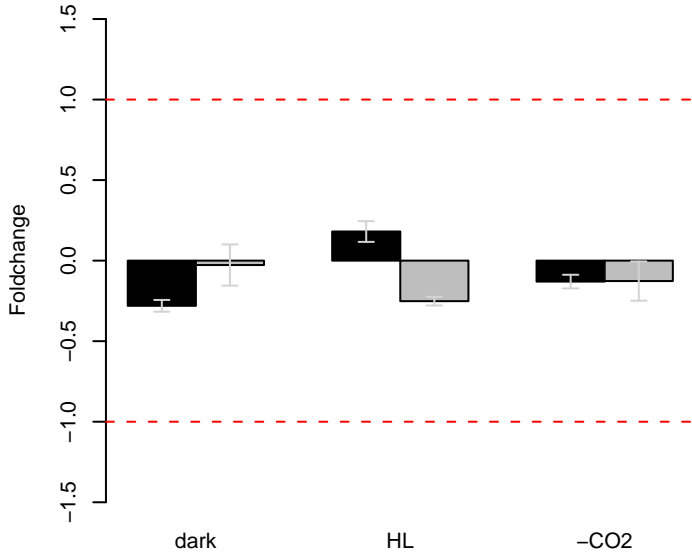
**slt(slr0534)**



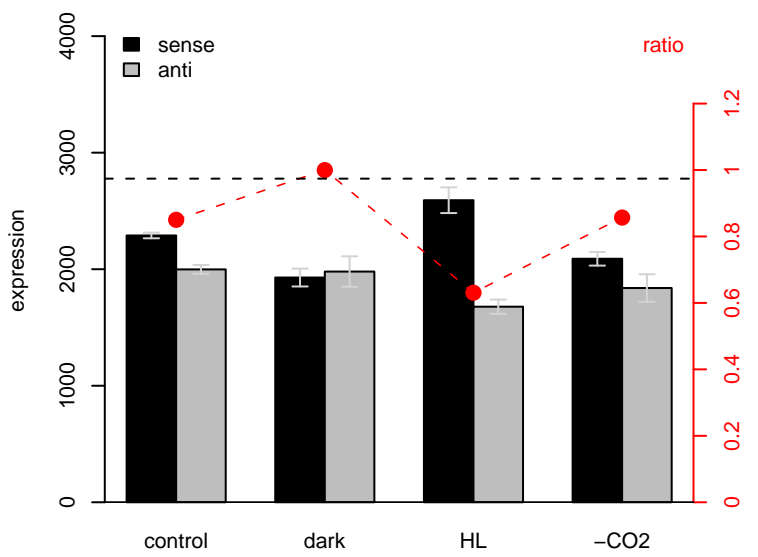
**genome\_4513**



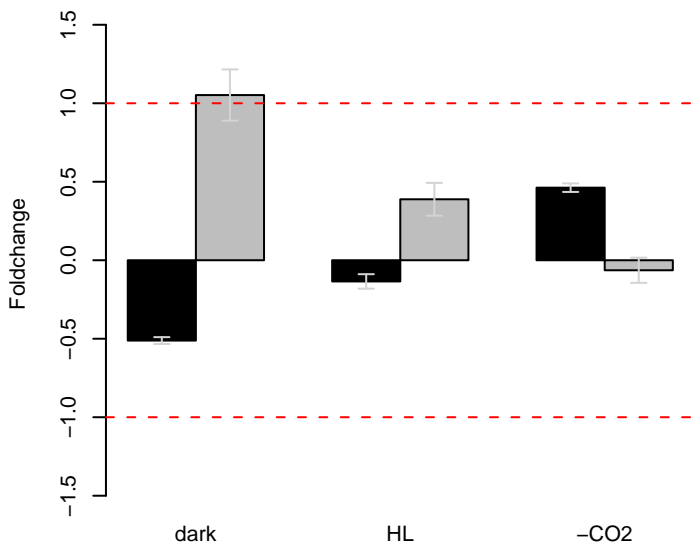
**slt(slr0534)**



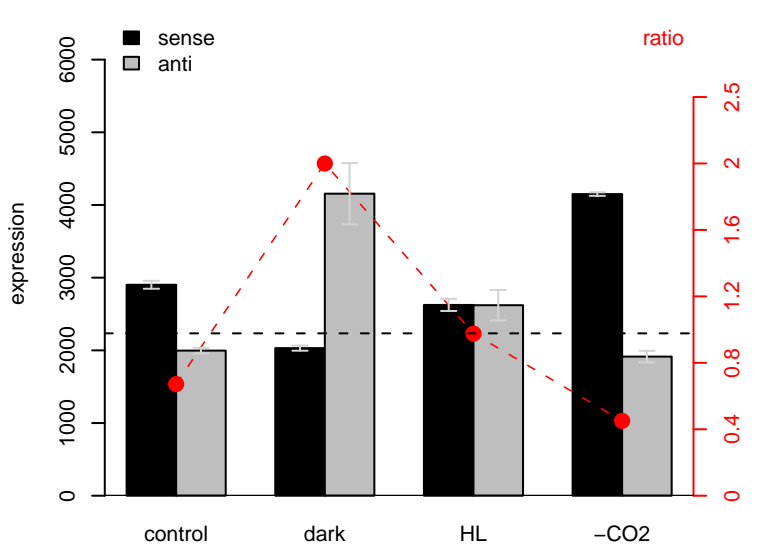
**genome\_4513**



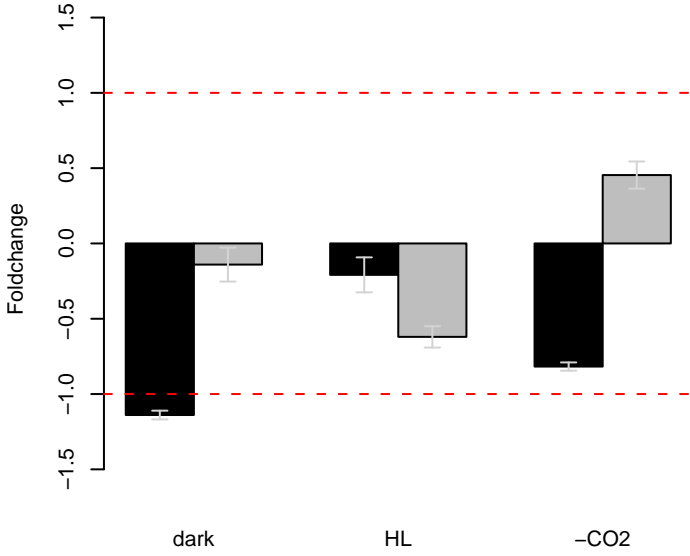
**slr0535**



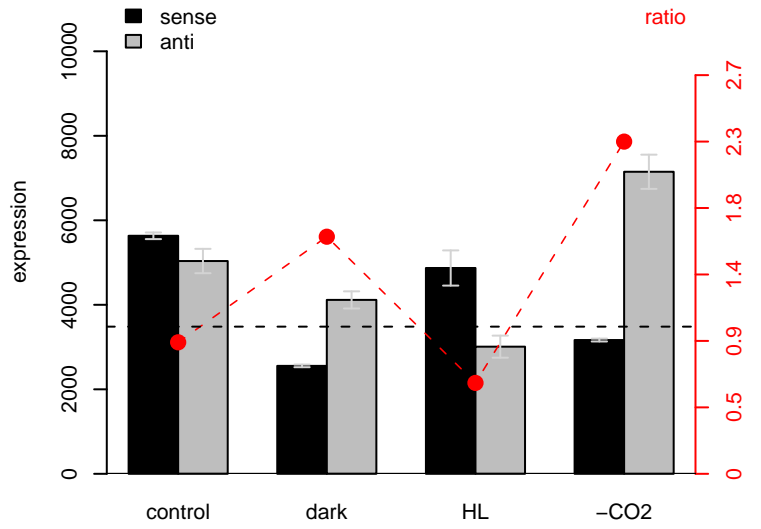
**genome\_4515**



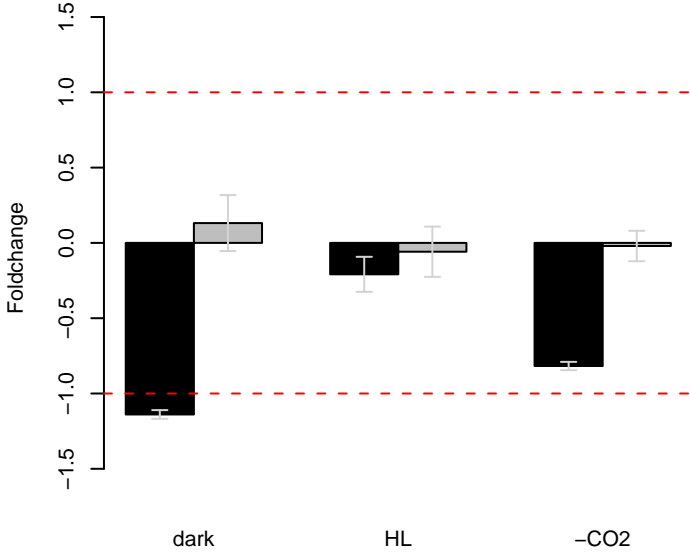
hemE(slr0536)



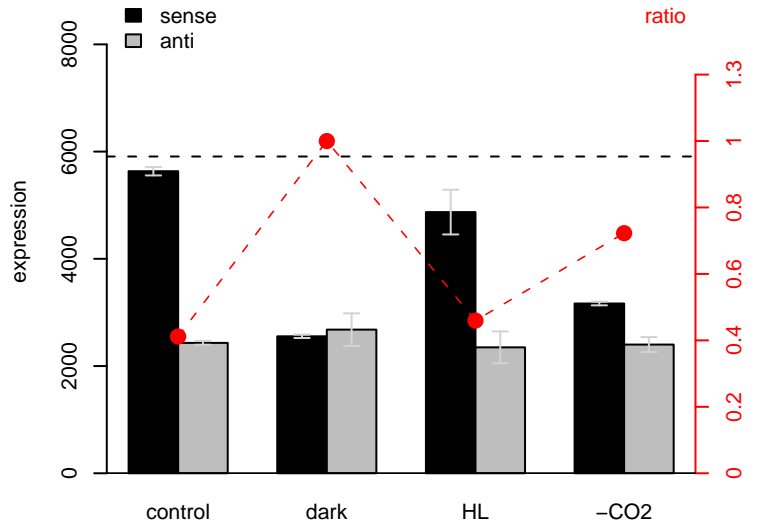
genome\_4517



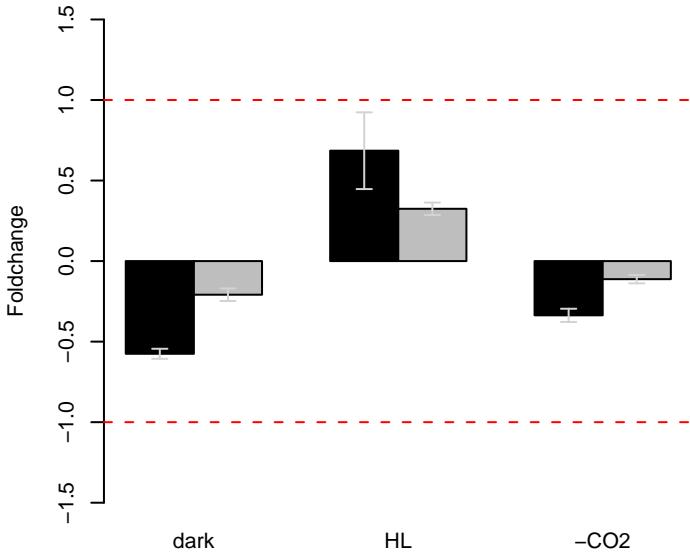
hemE(slr0536)



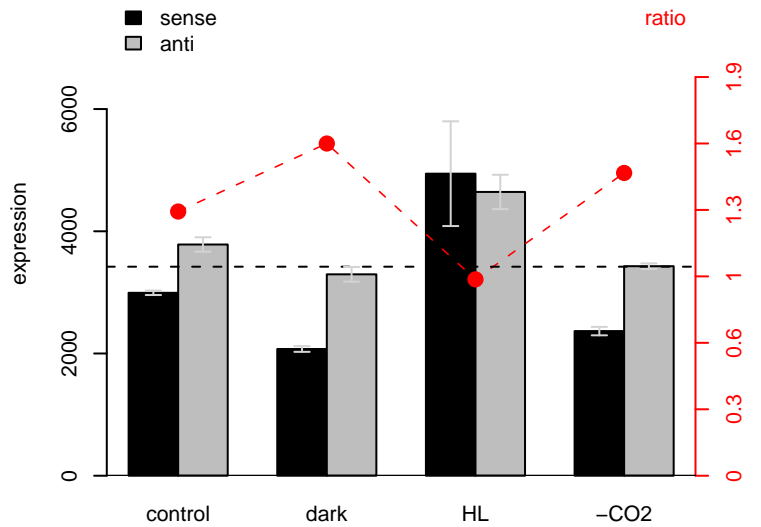
genome\_4517



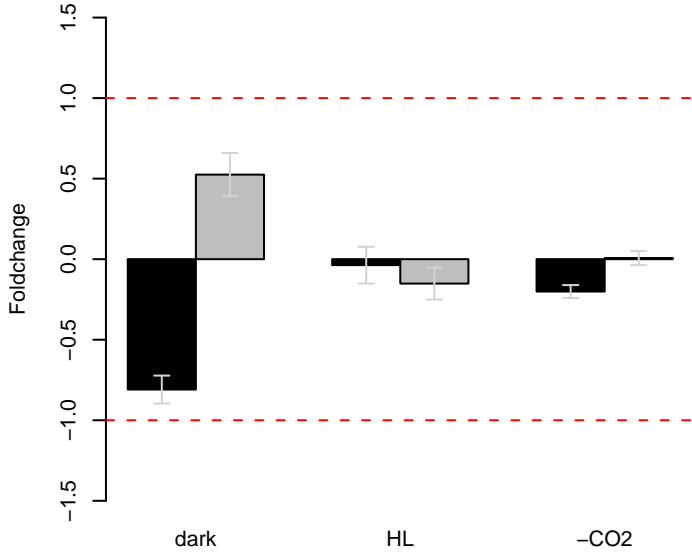
slr0537



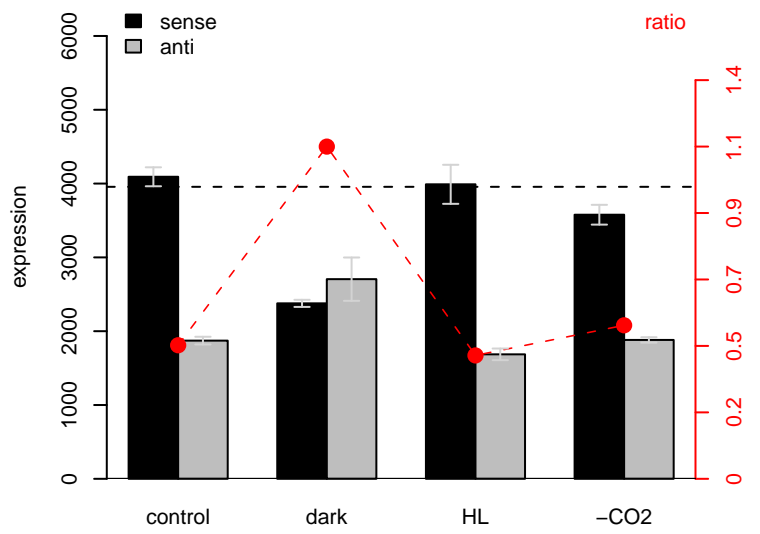
genome\_4523



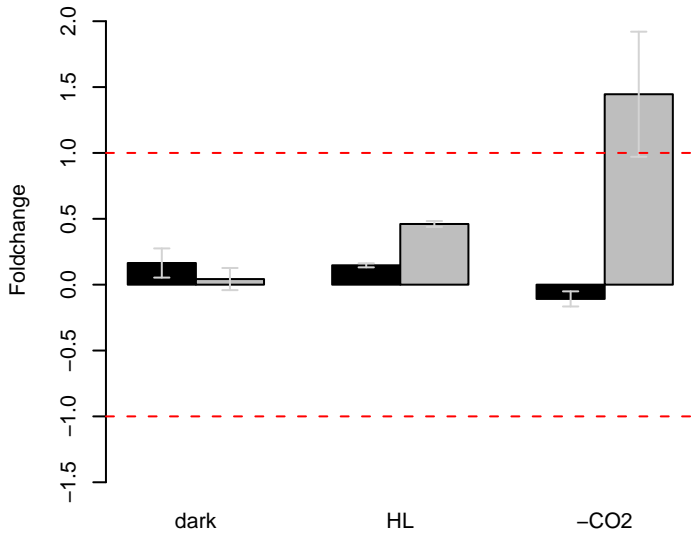
**lysA(sll0504)**



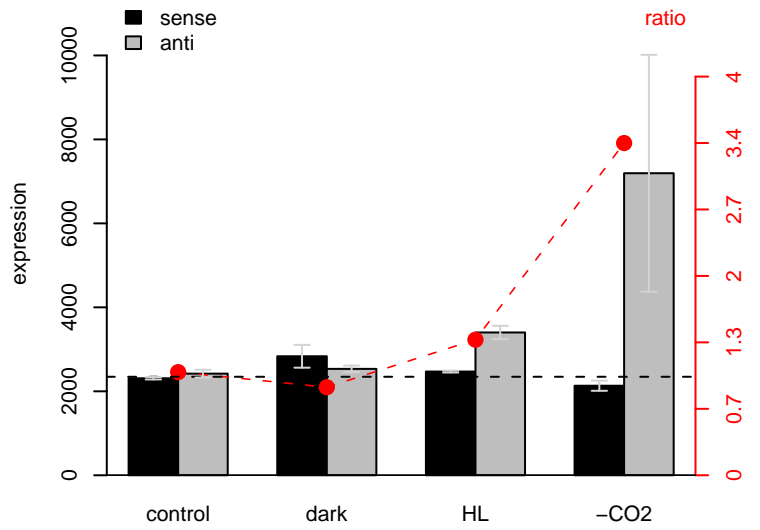
**genome\_4528**



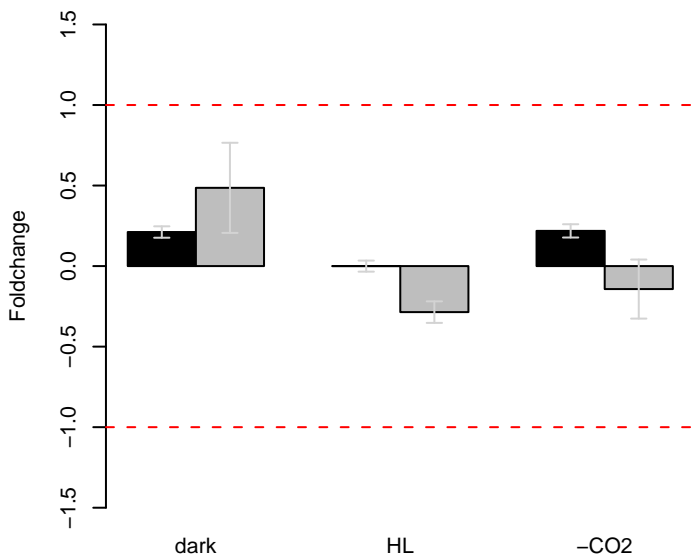
**sll0503**



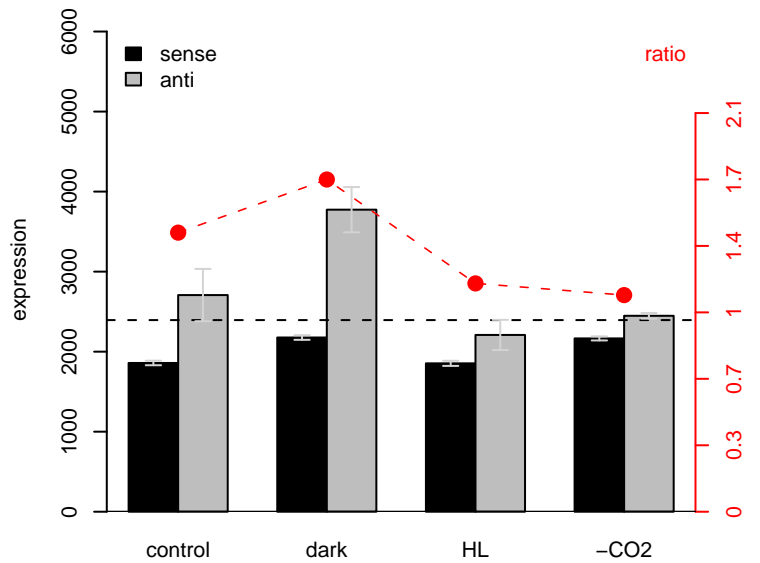
**genome\_4530**

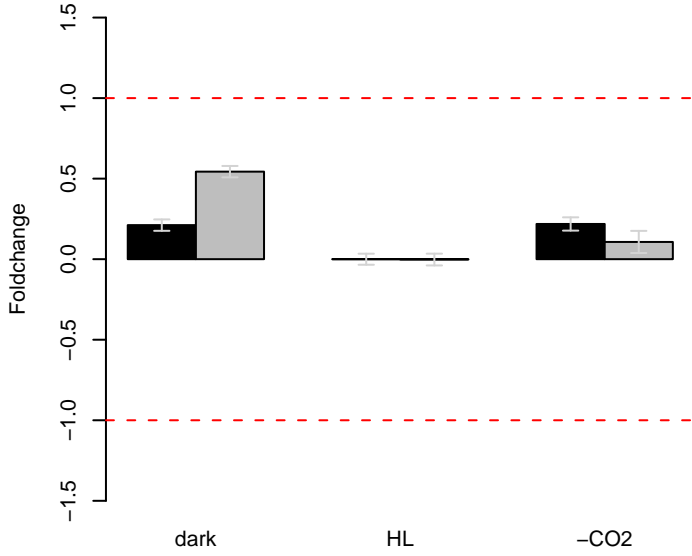
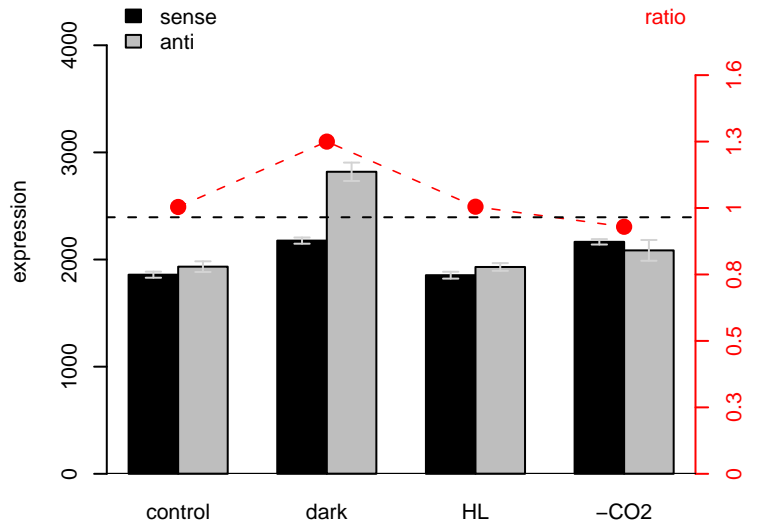
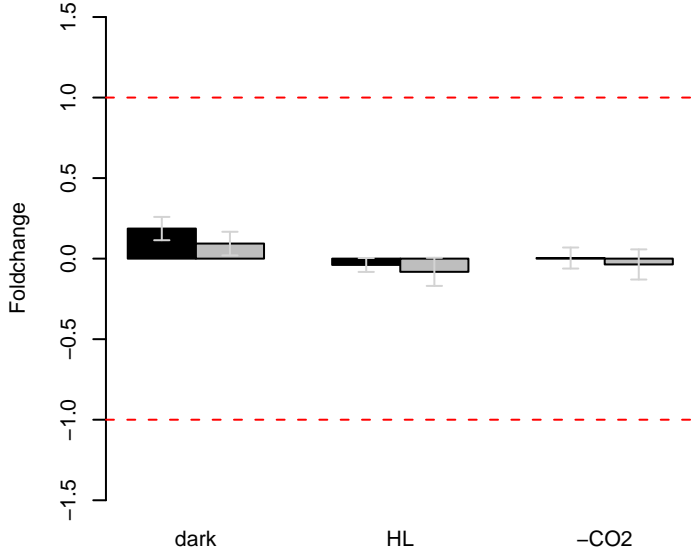
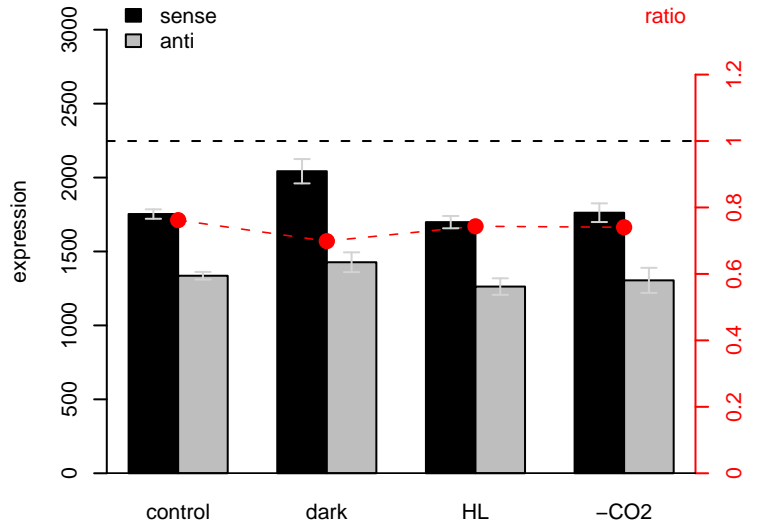
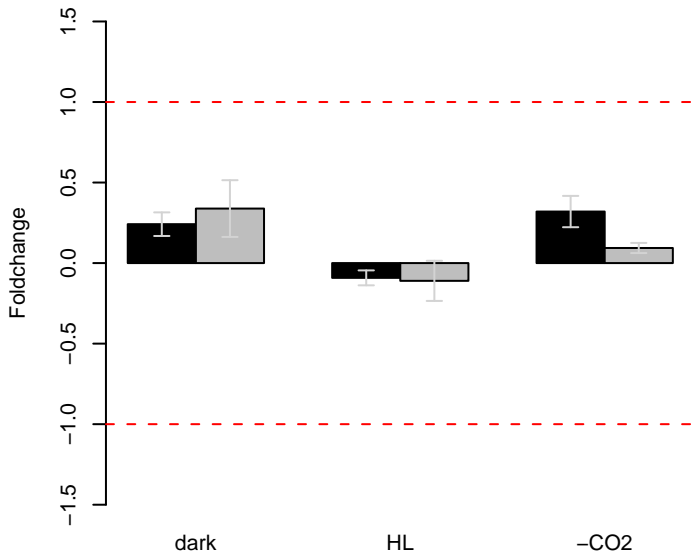
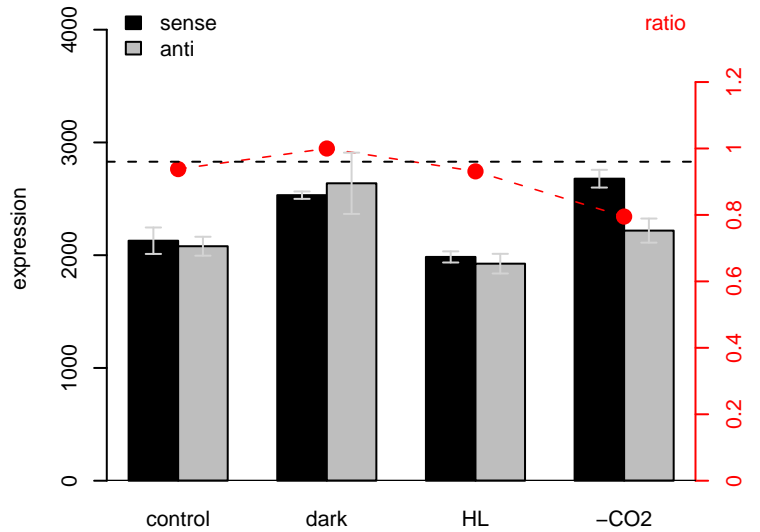


**slr0541**

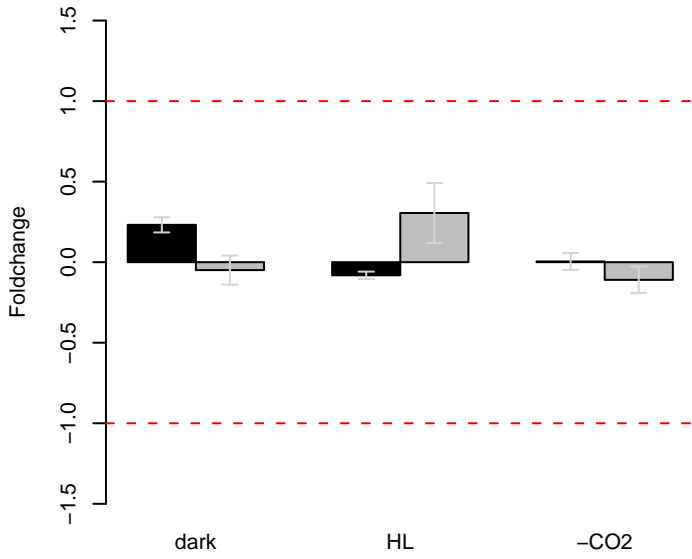


**genome\_4534**

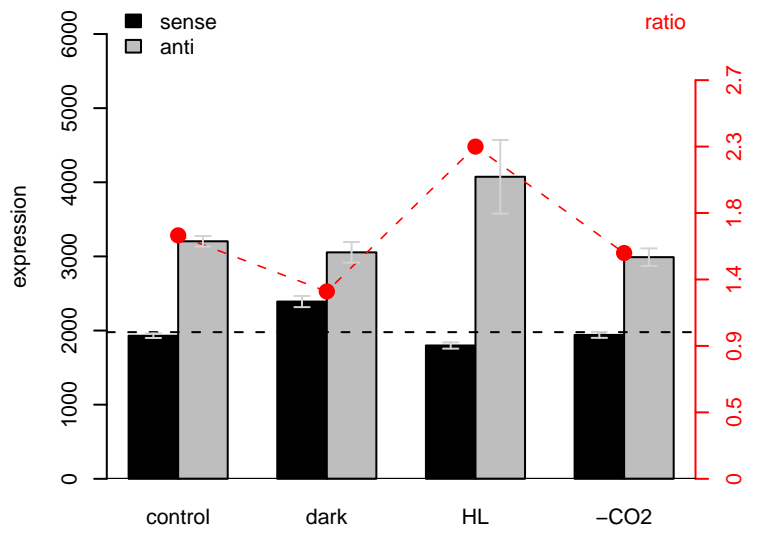


**slr0541****genome\_4534****slr0499****genome\_4539****slr0544****genome\_4541**

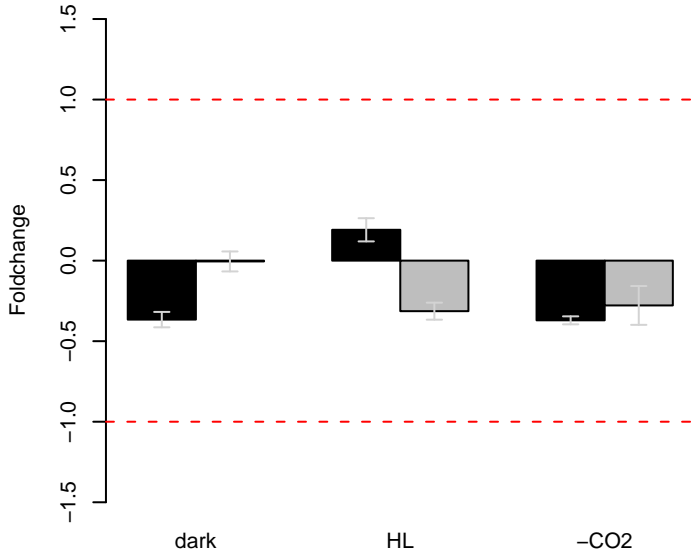
**sli0494**



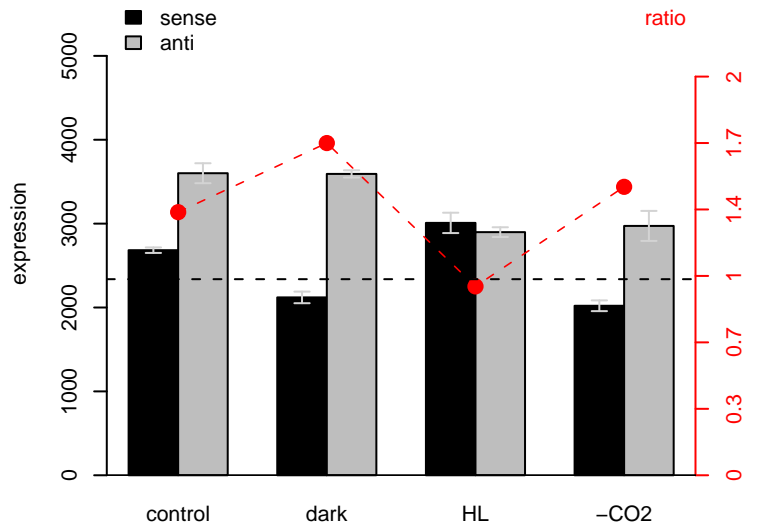
**genome\_4549**



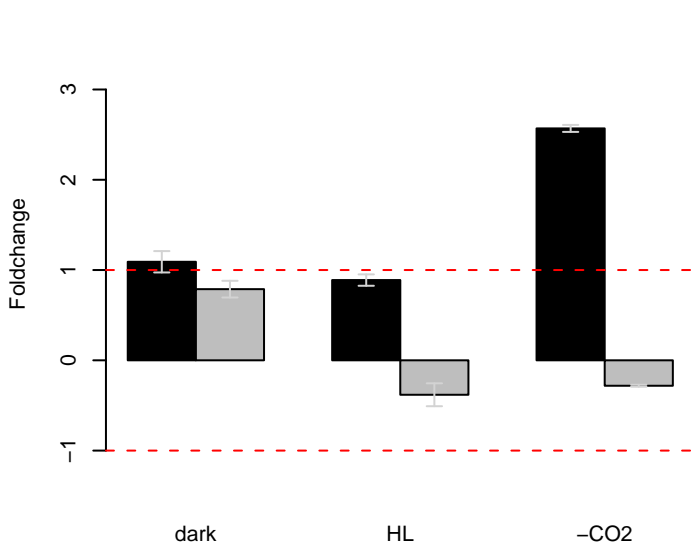
**glmU(sli0899)**



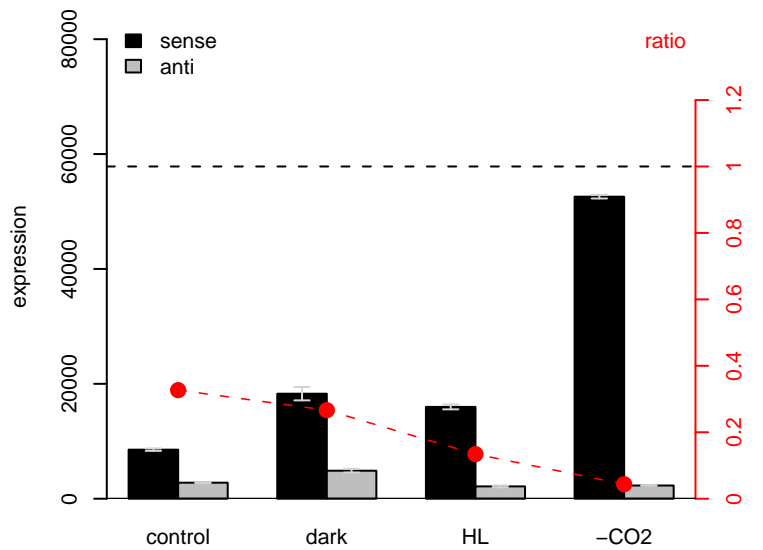
**genome\_4563**



**ssr1562**

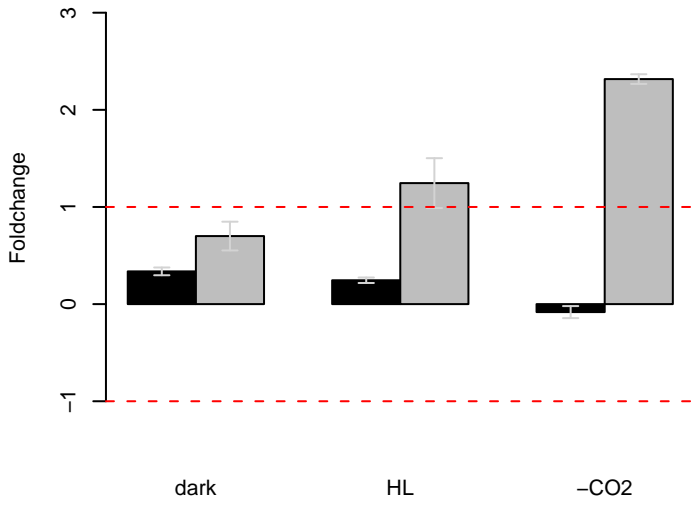


**genome\_4566**

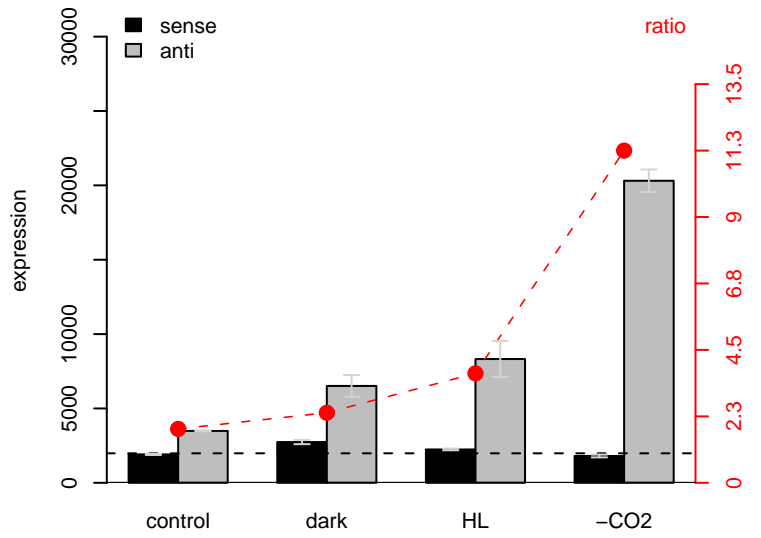




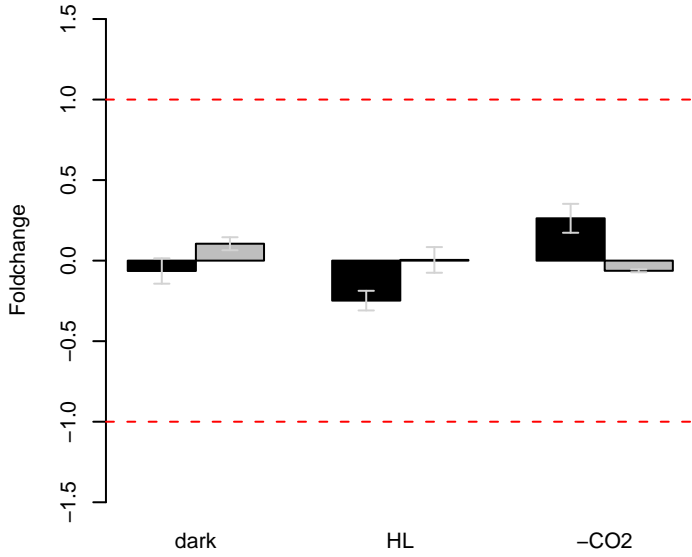
**slr0898**



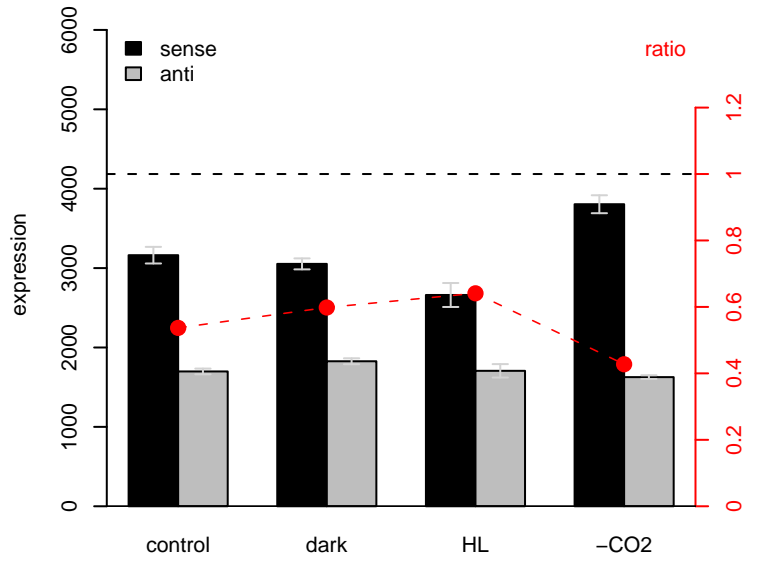
**genome\_4568**



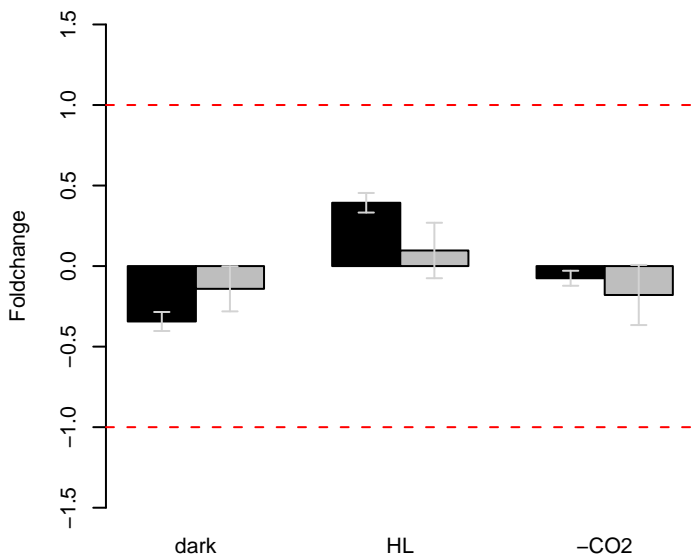
**slr0971**



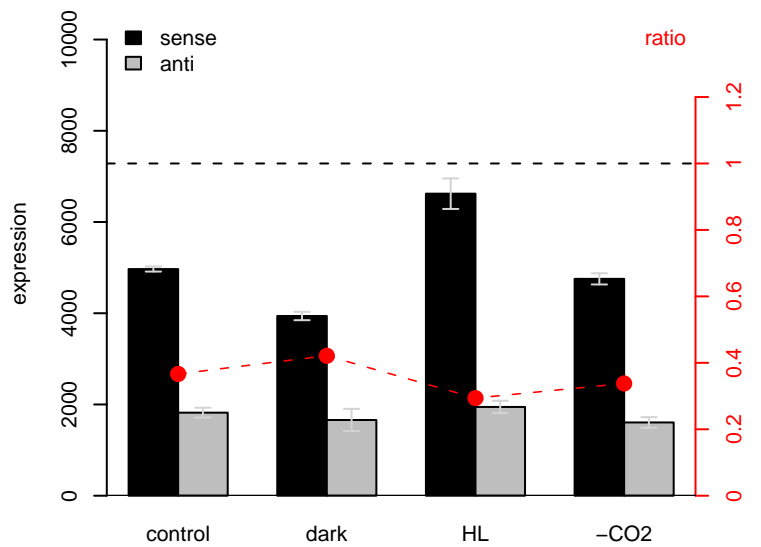
**genome\_457**

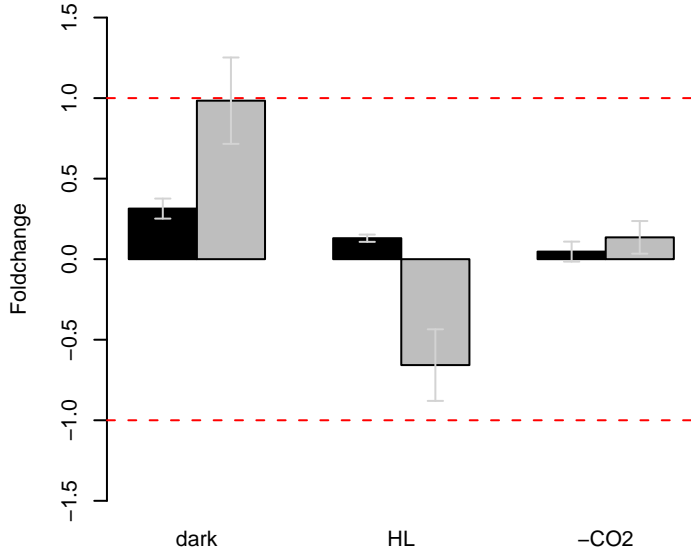
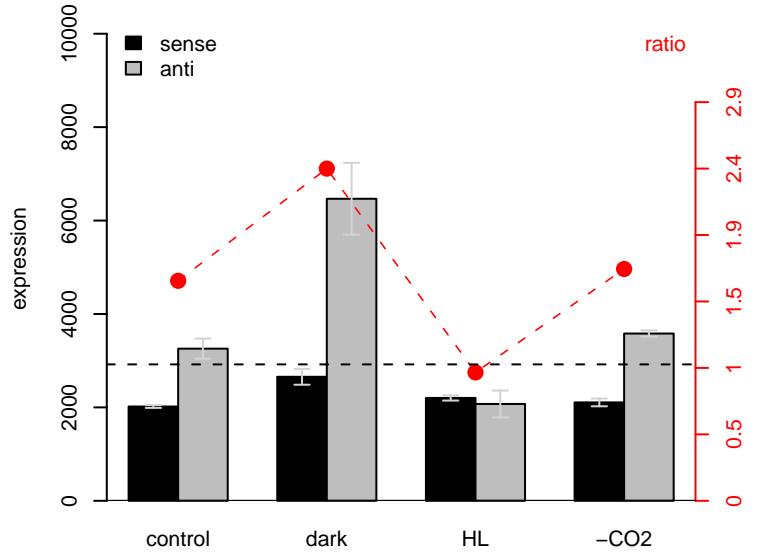
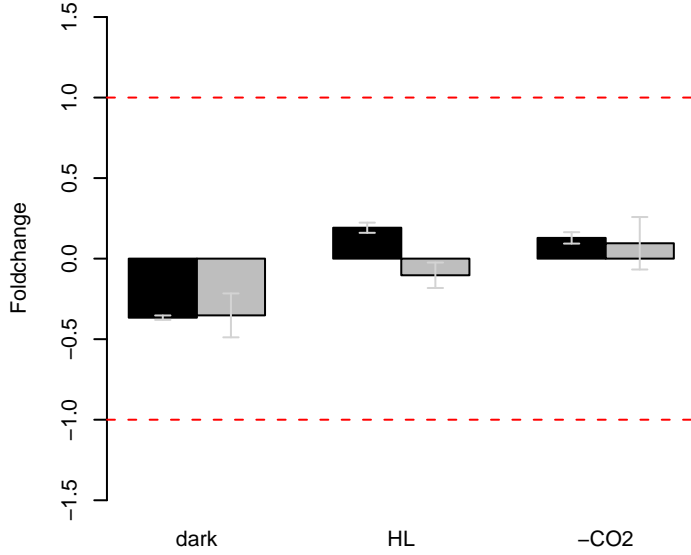
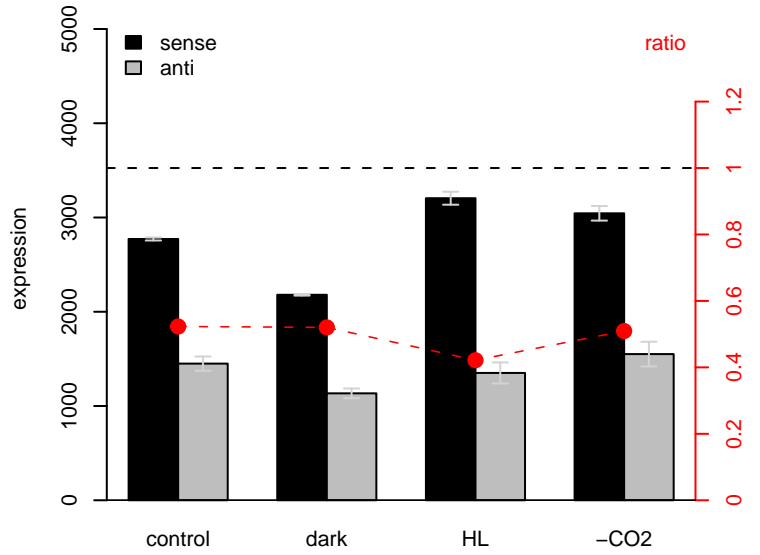
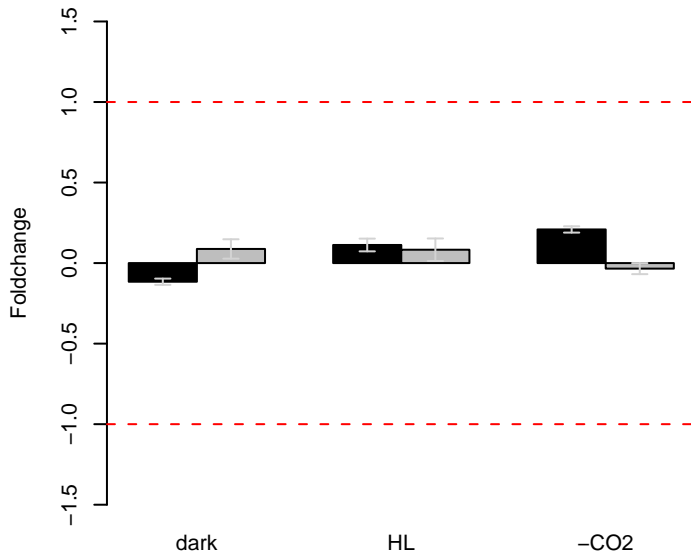
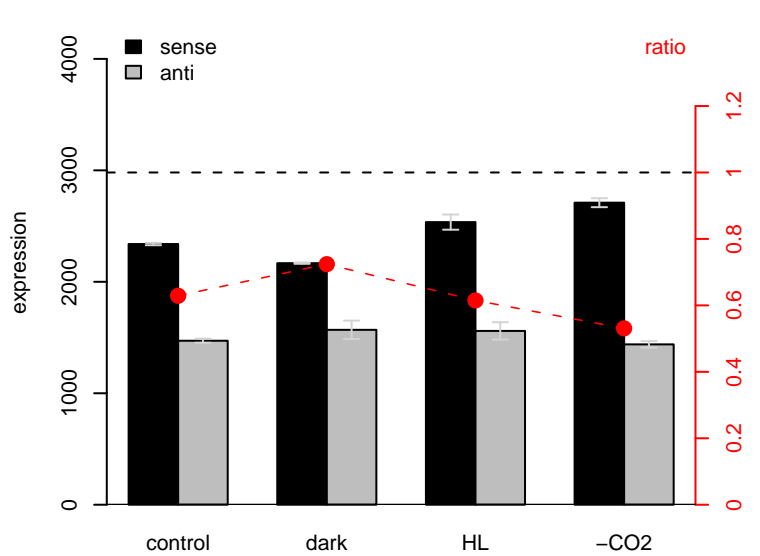


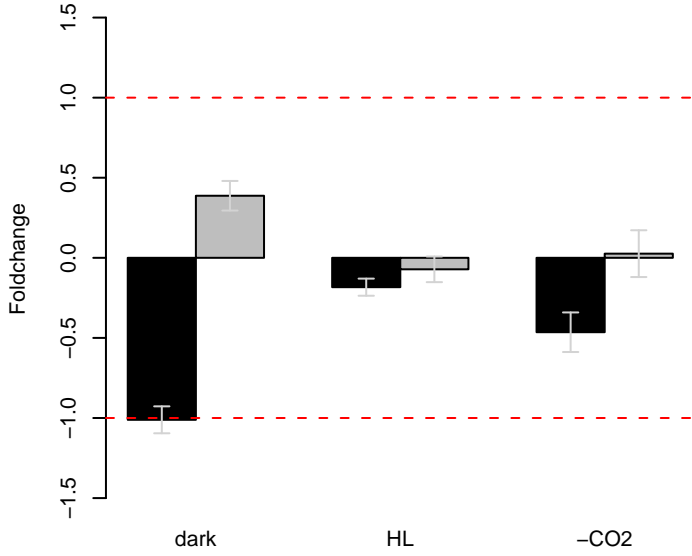
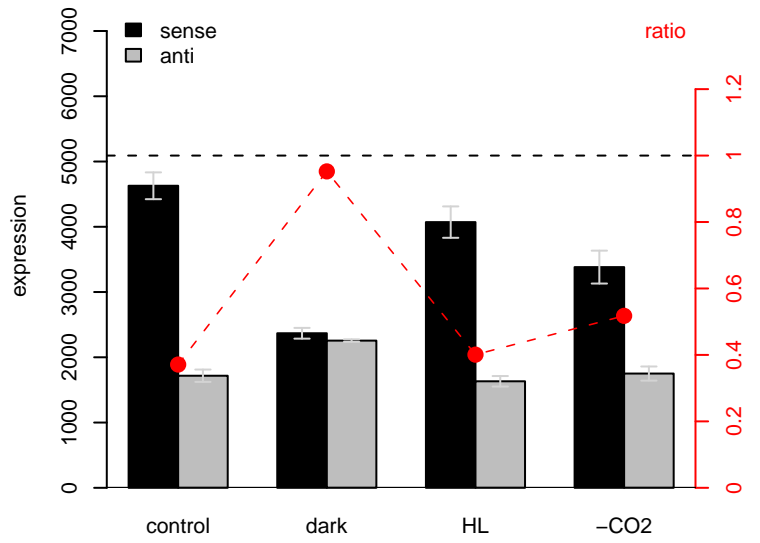
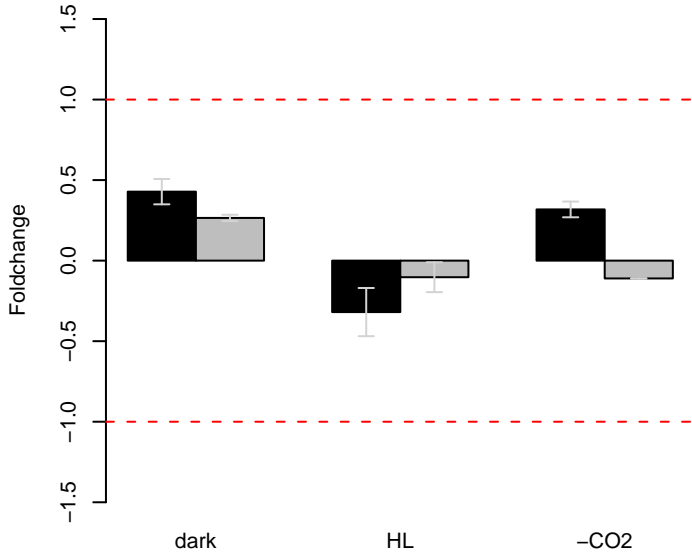
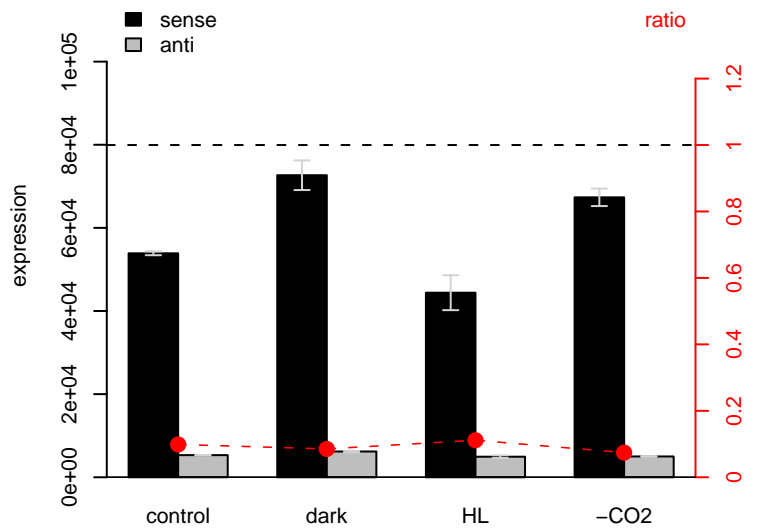
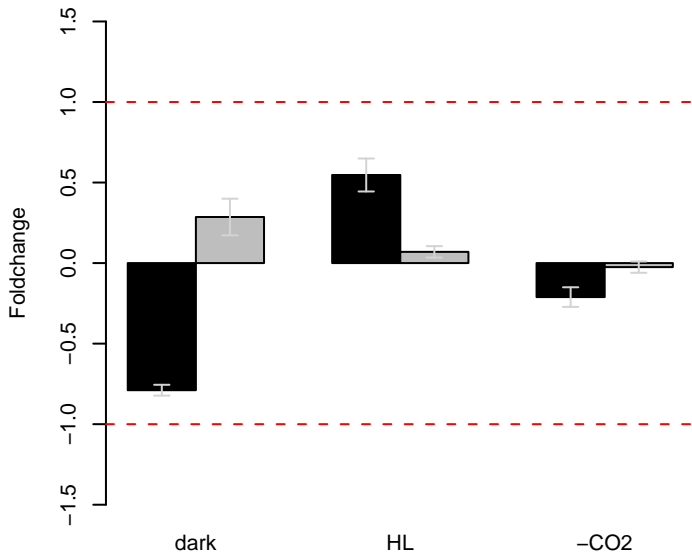
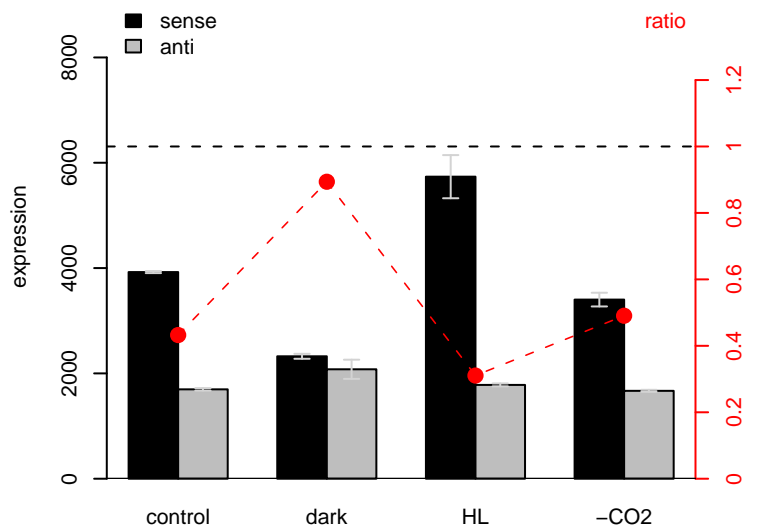
**asd(slr0549)**

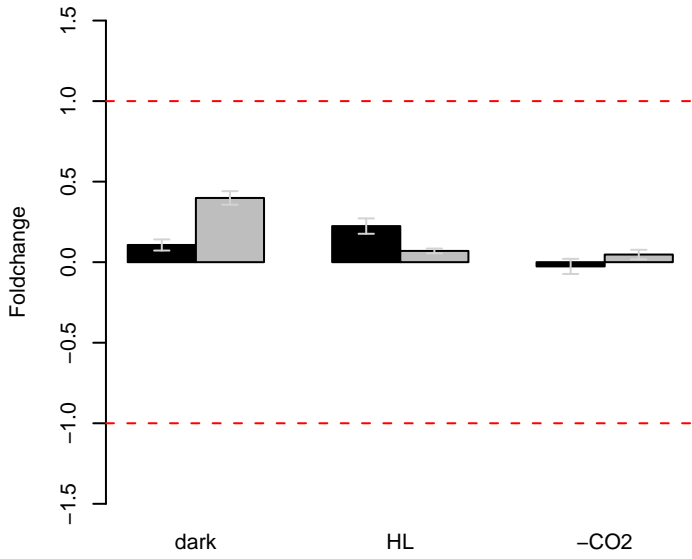
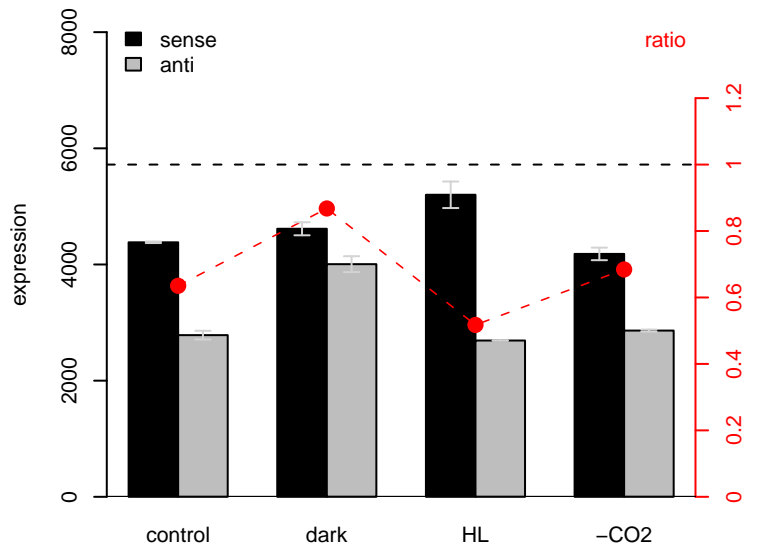
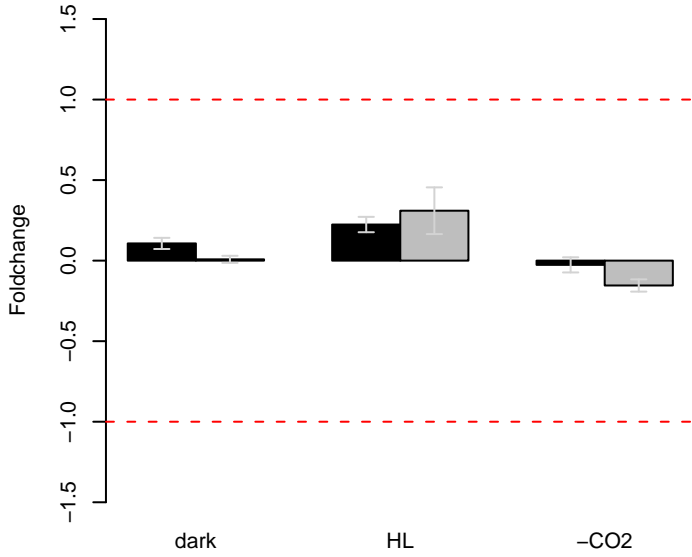
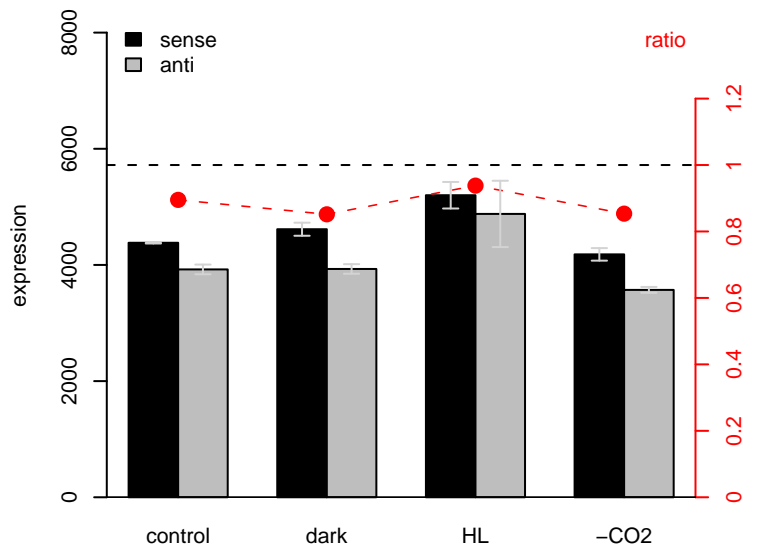
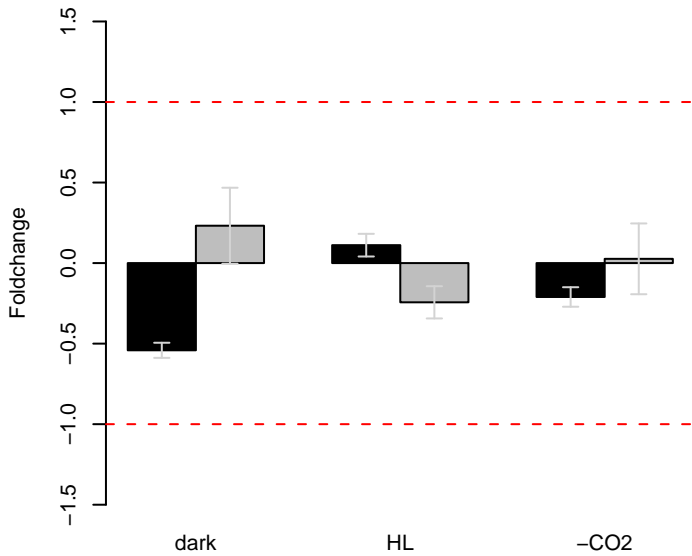
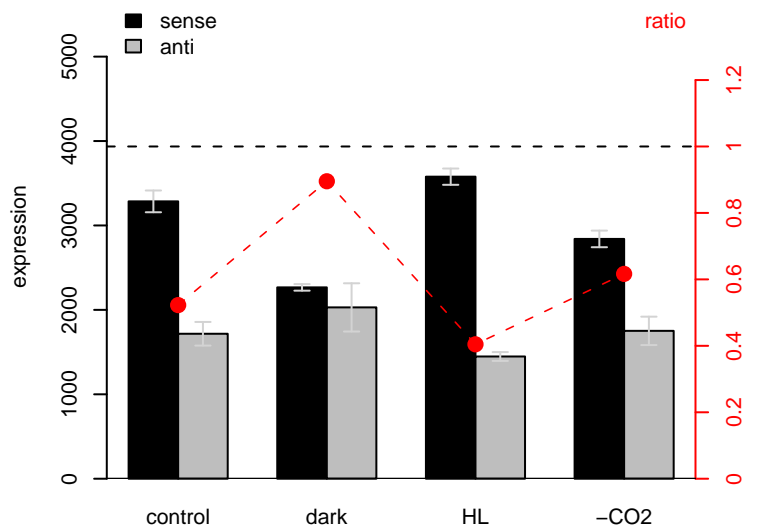


**genome\_4583**

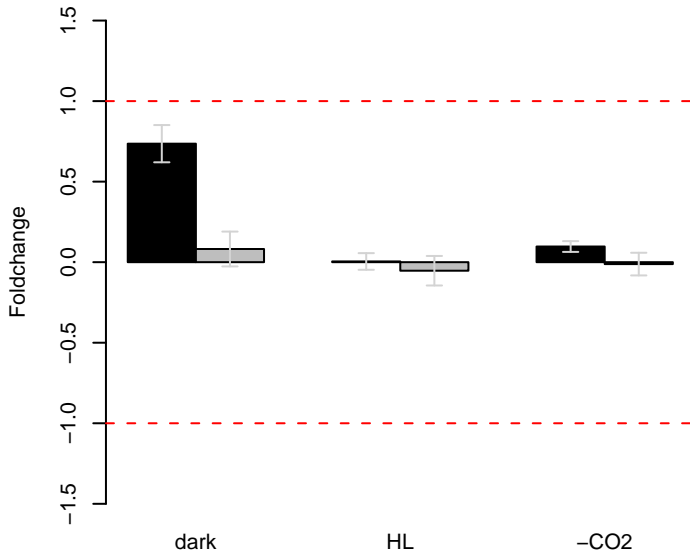


**slr0556****genome\_4593****slI1344****genome\_4610****ape2(sll1343)****genome\_4612**

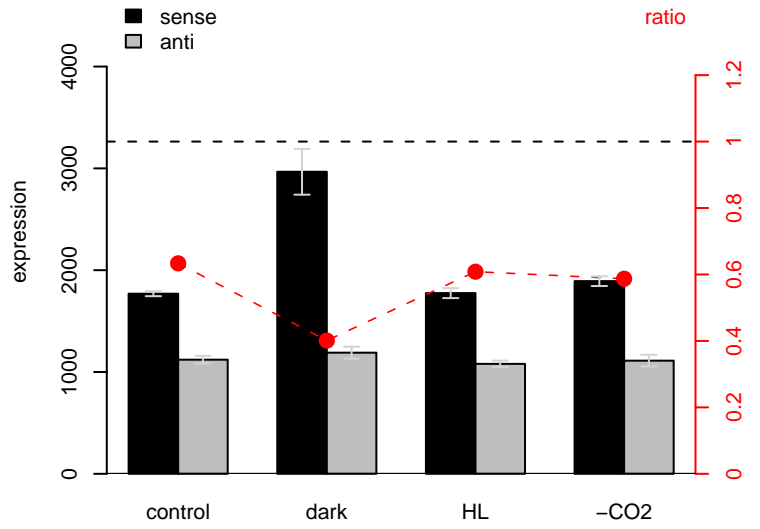
**murC(slr1423)****genome\_4615****sll1338****genome\_4622****sll1336****genome\_4624**

**sll1334****genome\_4627****sll1334****genome\_4627****slr1431****genome\_4633**

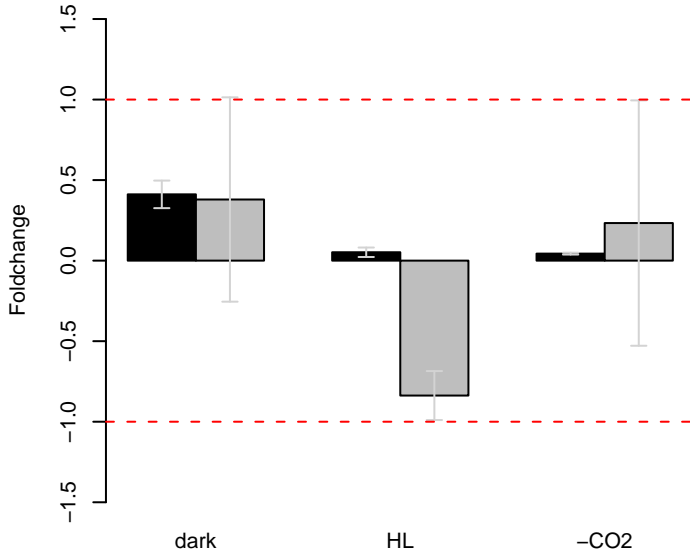
**ssr2439**



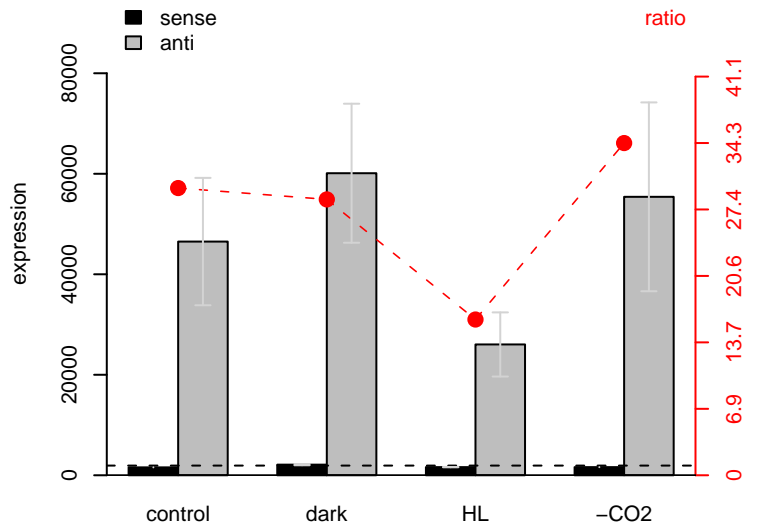
**genome\_4640**



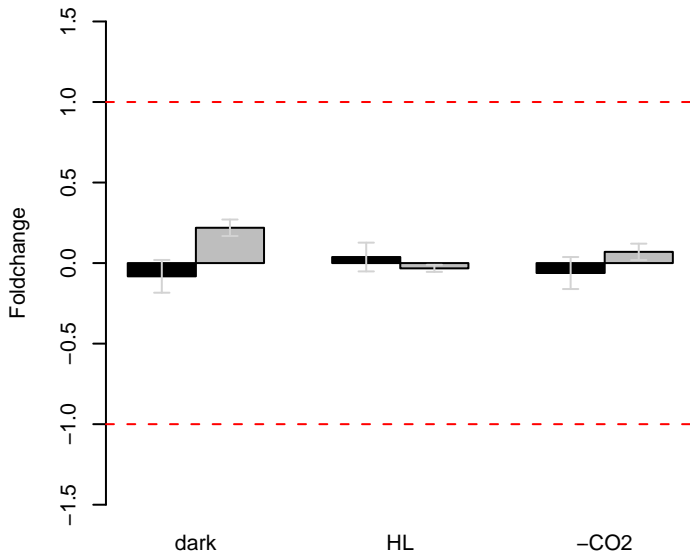
**cysT(slr1453)**



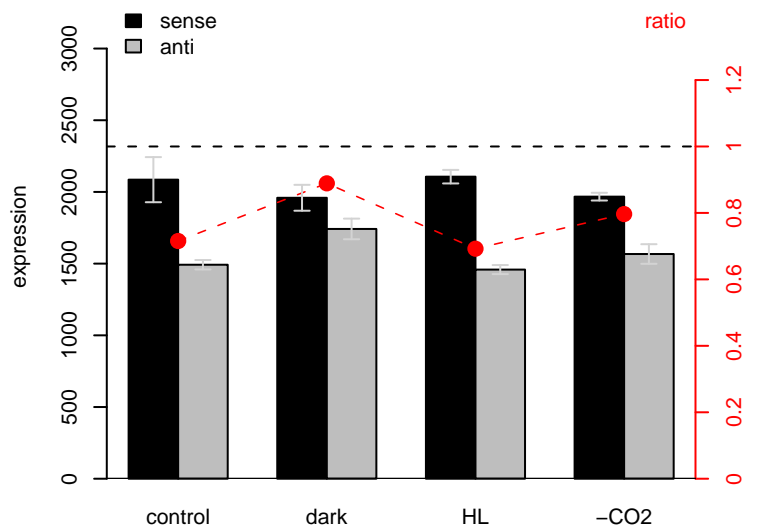
**genome\_4642**



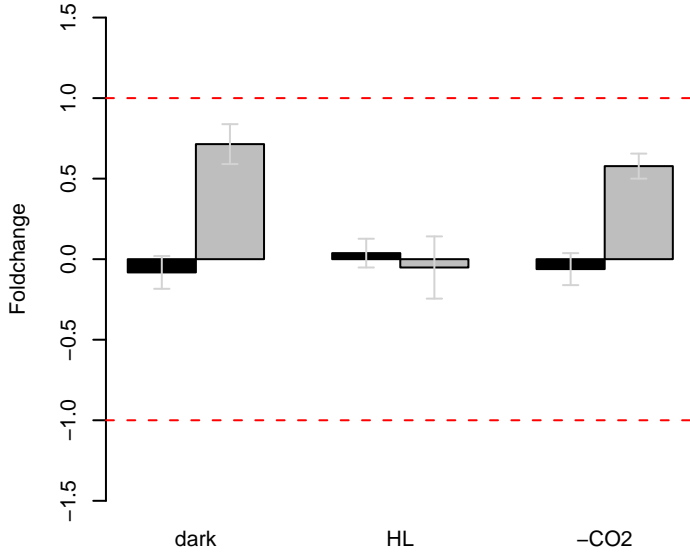
**cysA(slr1455)**



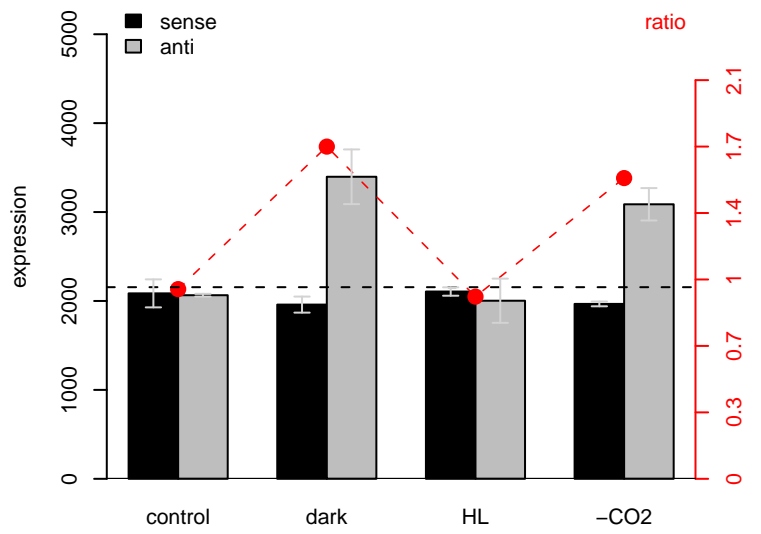
**genome\_4645**



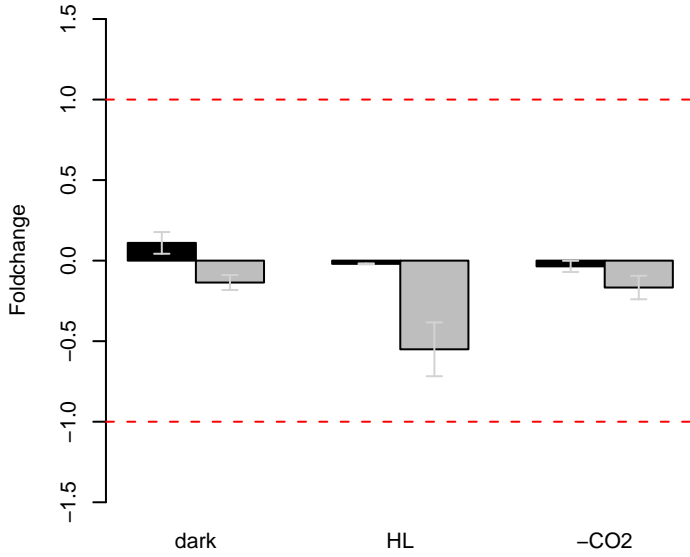
**cysA(slr1455)**



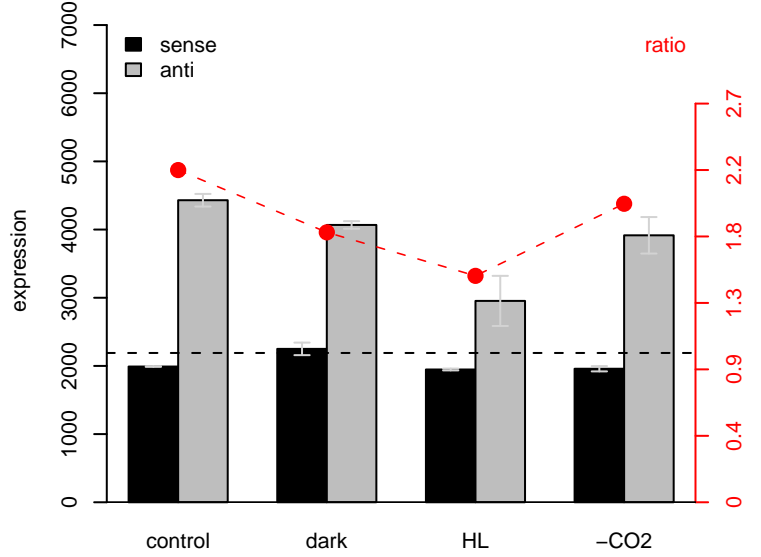
**genome\_4645**



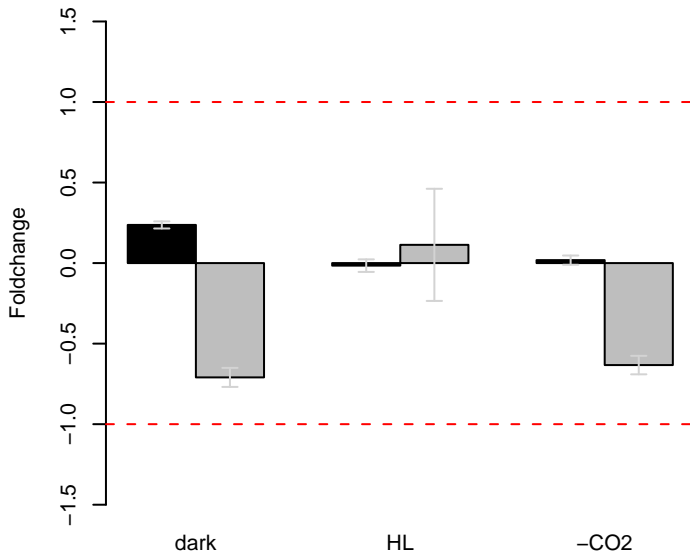
**slI1366**



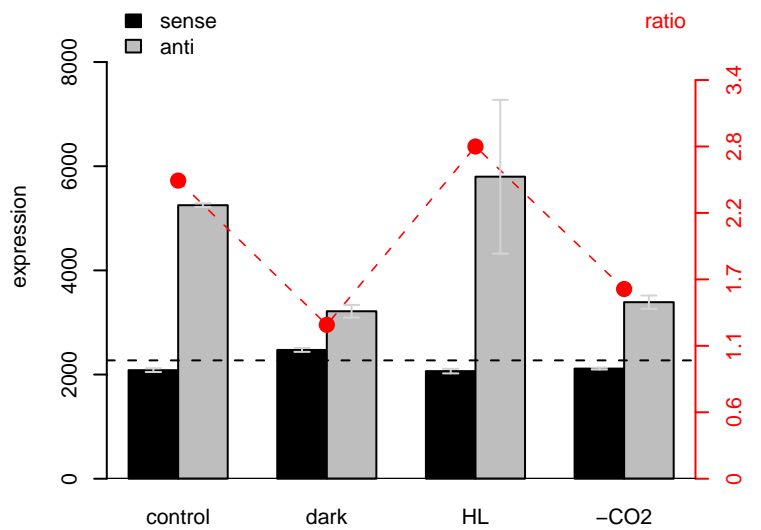
**genome\_4653**

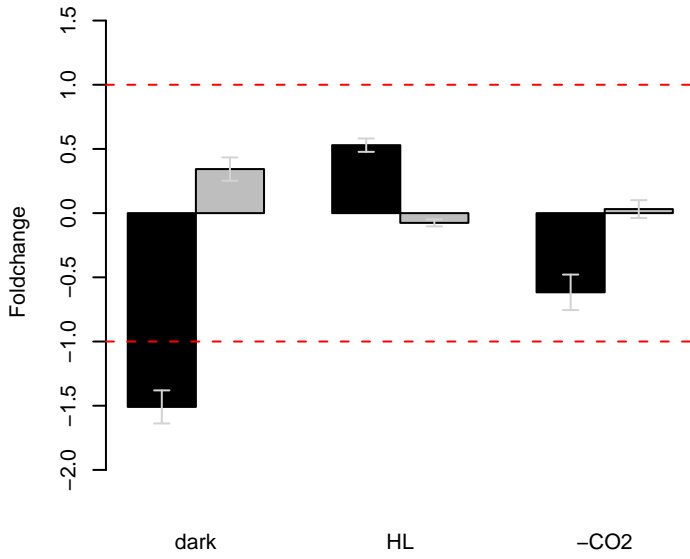
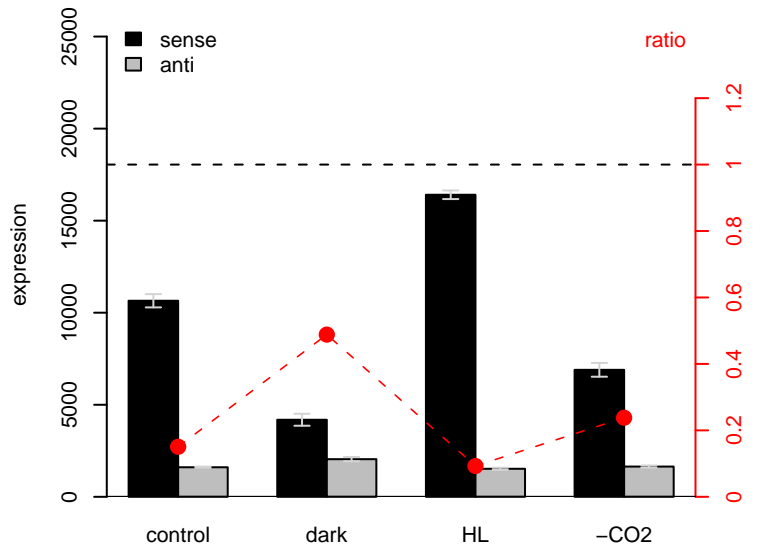
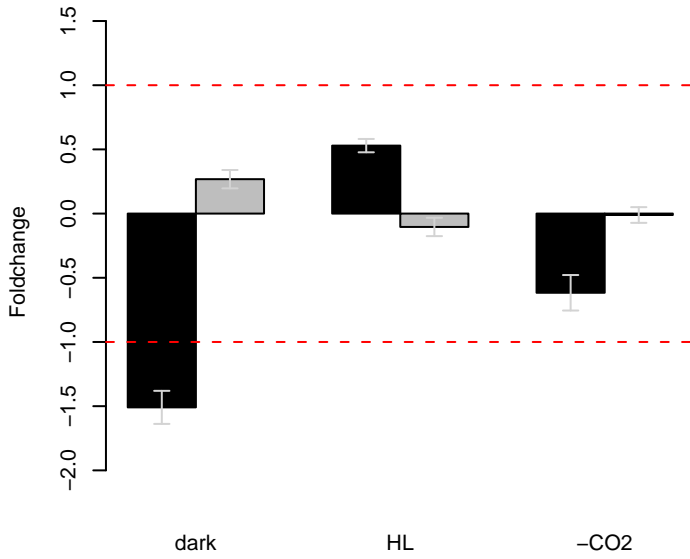
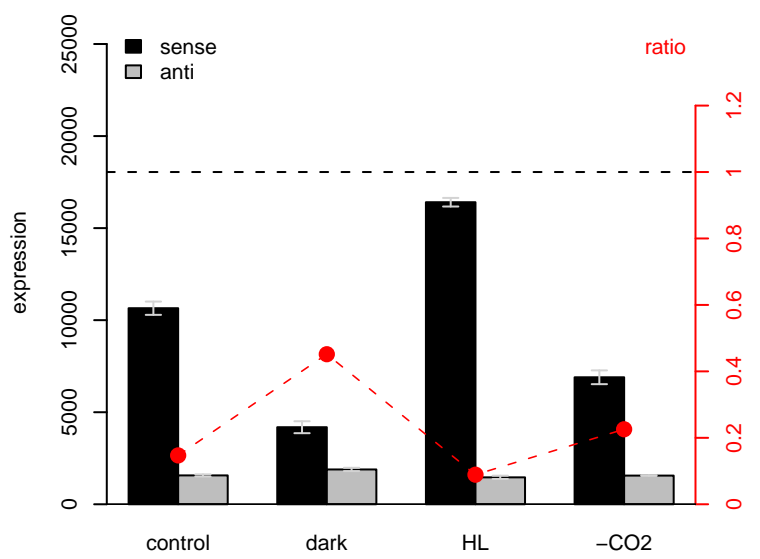
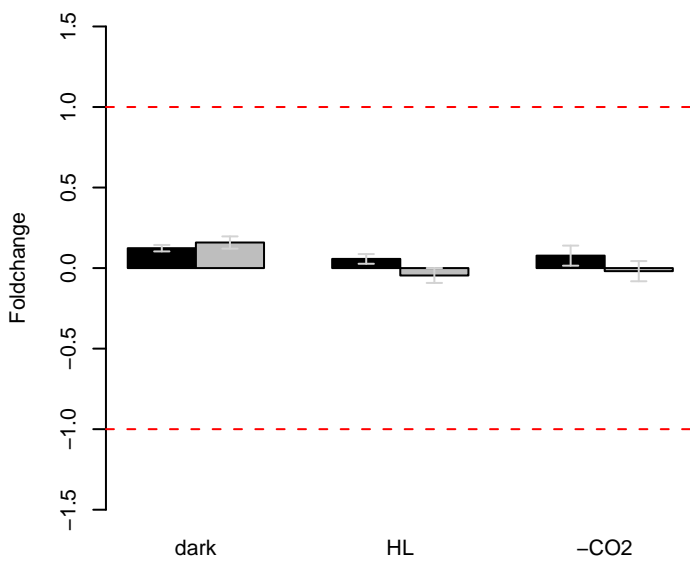
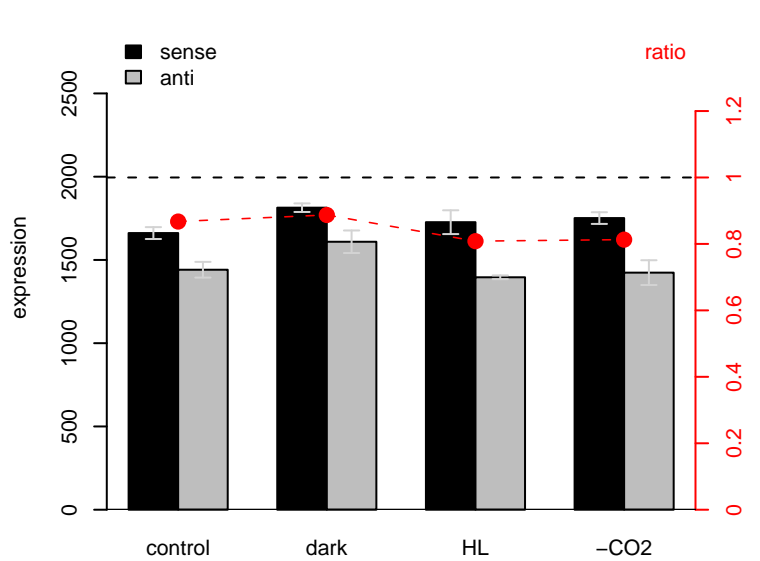


**slr1462**

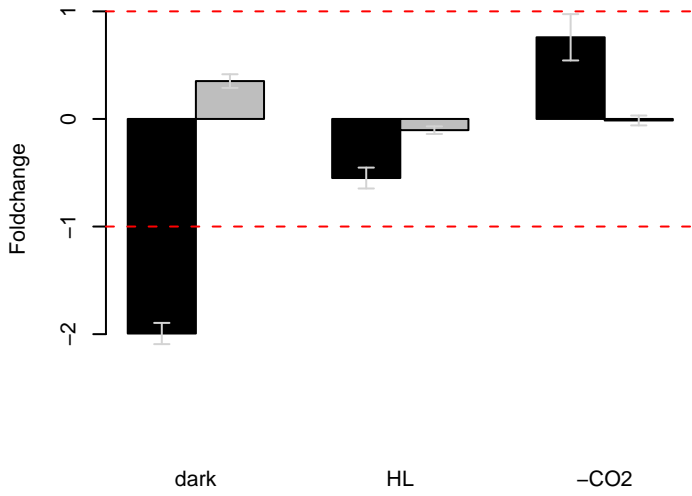


**genome\_4657**

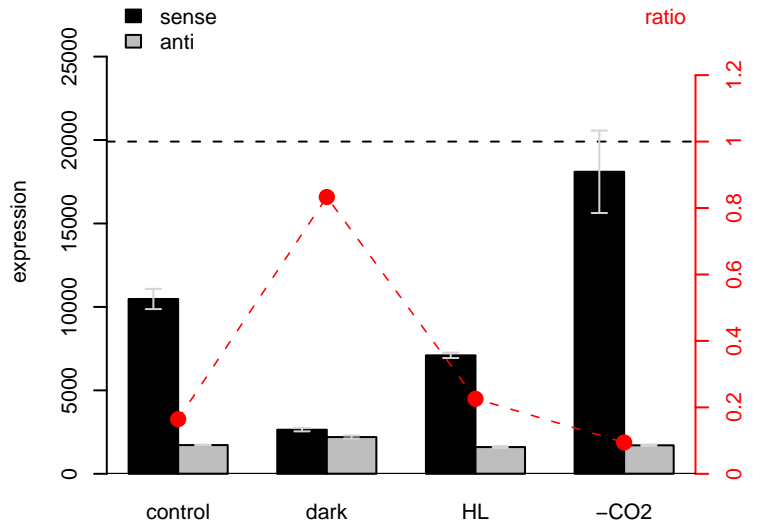


**fus(slr1463)****genome\_4660****fus(slr1463)****genome\_4660****slr1464****genome\_4663**

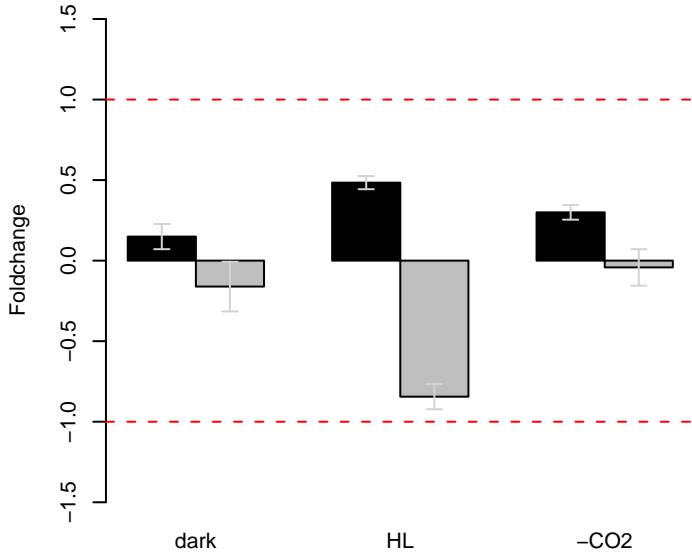
**rpoDI(slr0653)**



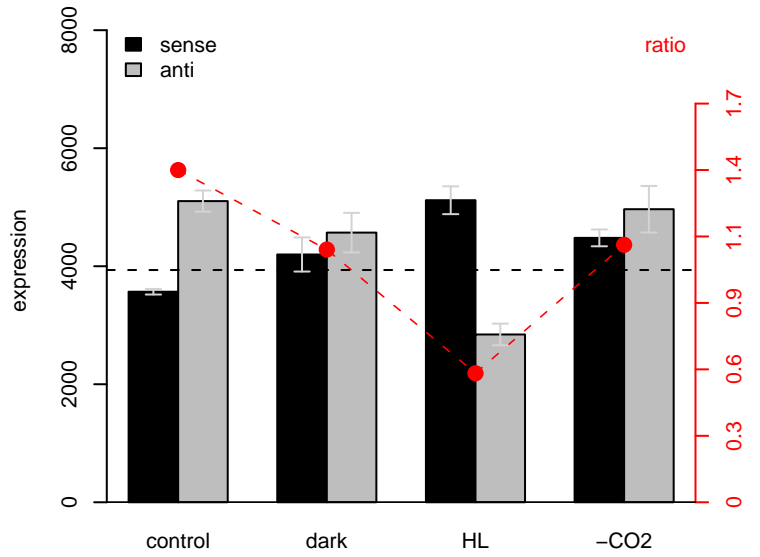
**genome\_4676**



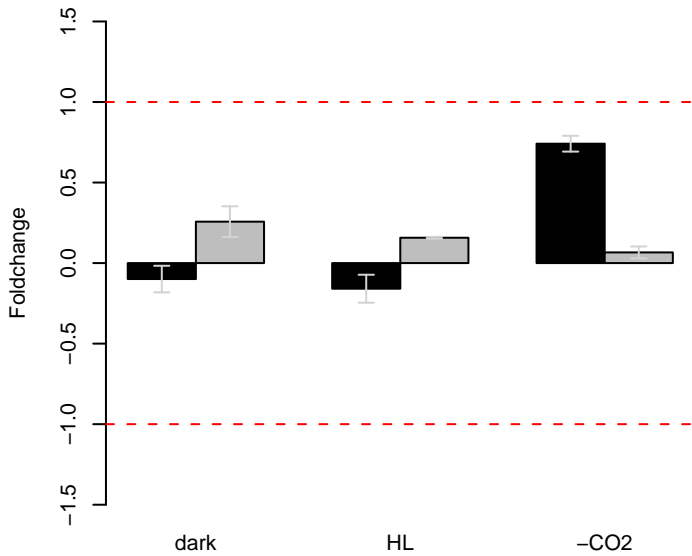
**slr0655**



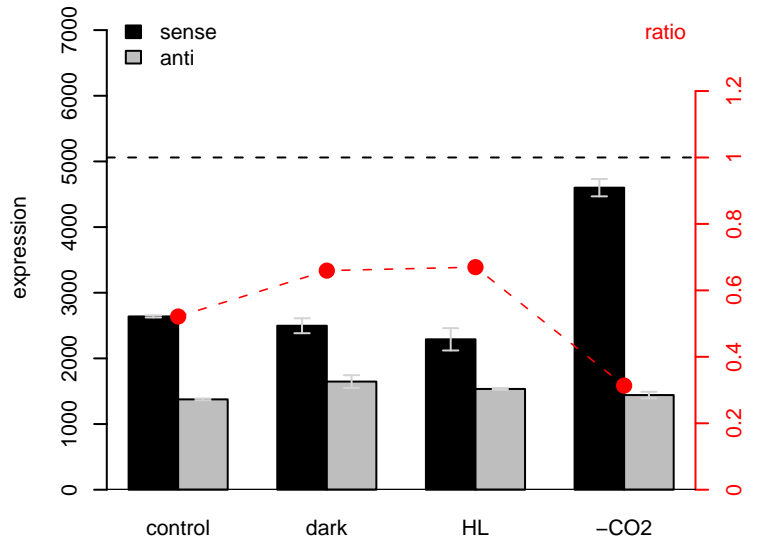
**genome\_4684**



**slr0656**

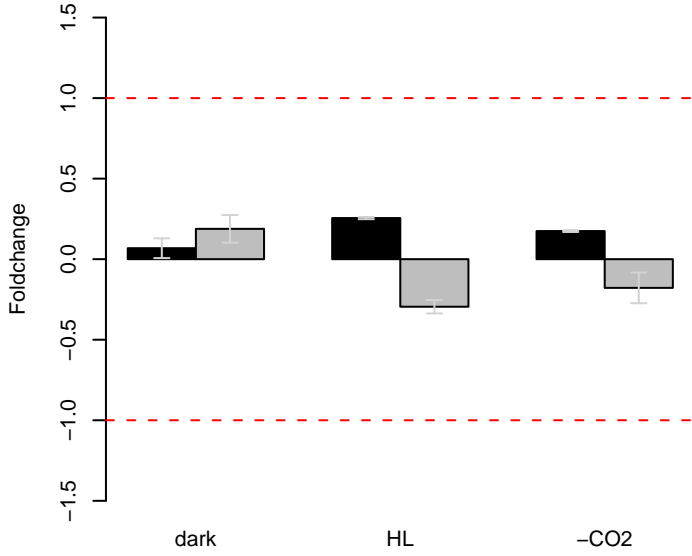


**genome\_4686**

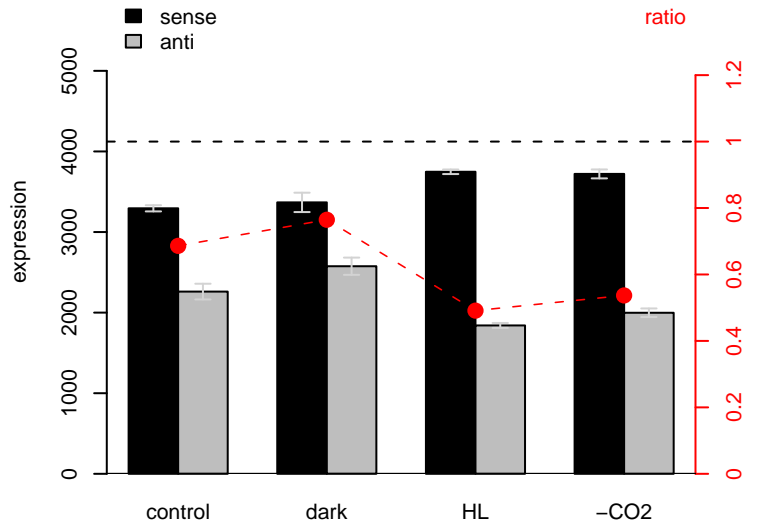




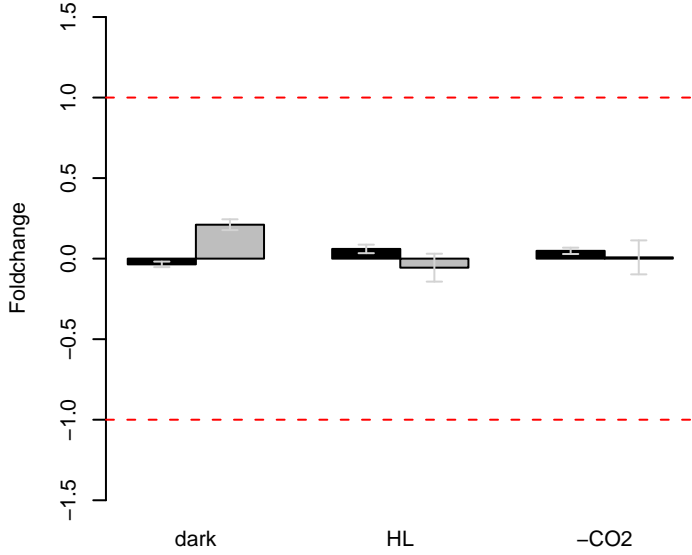
**slr0658**



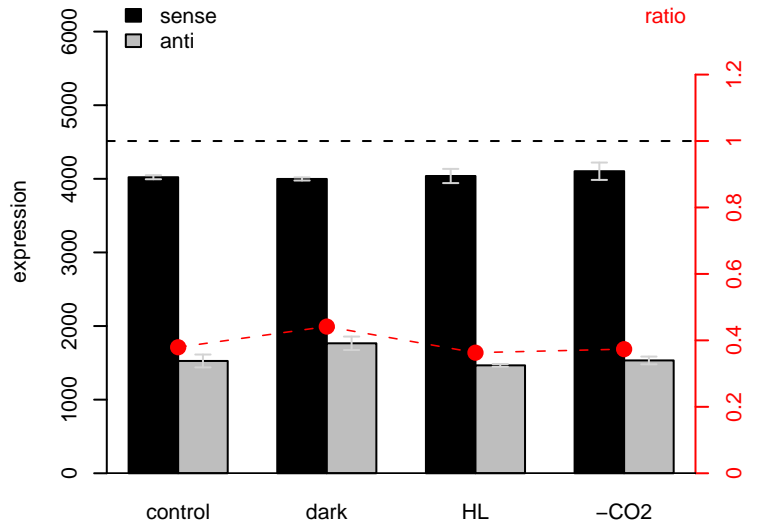
**genome\_4690**



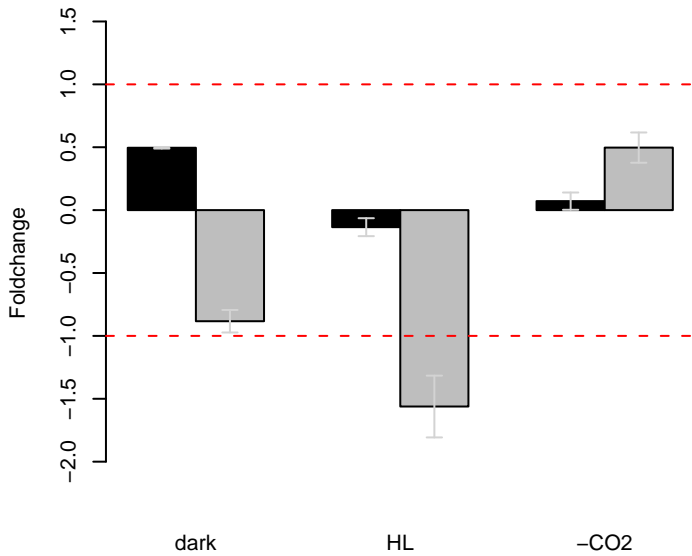
**proC(slr0661)**



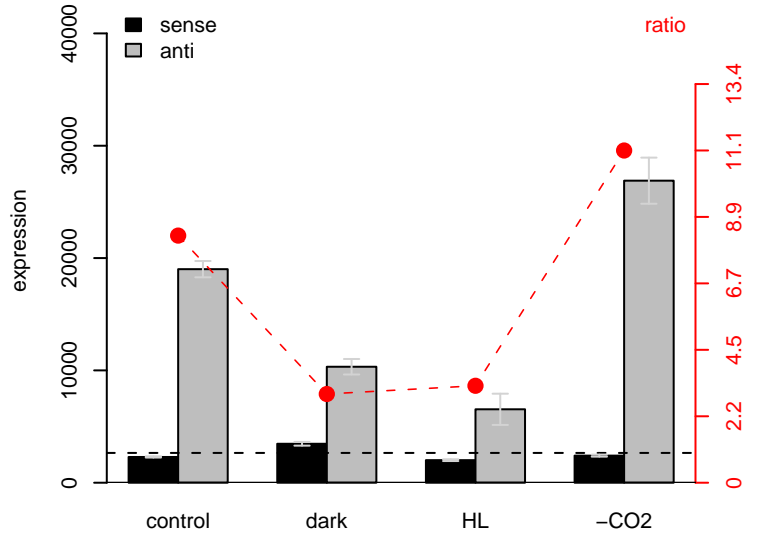
**genome\_4693**

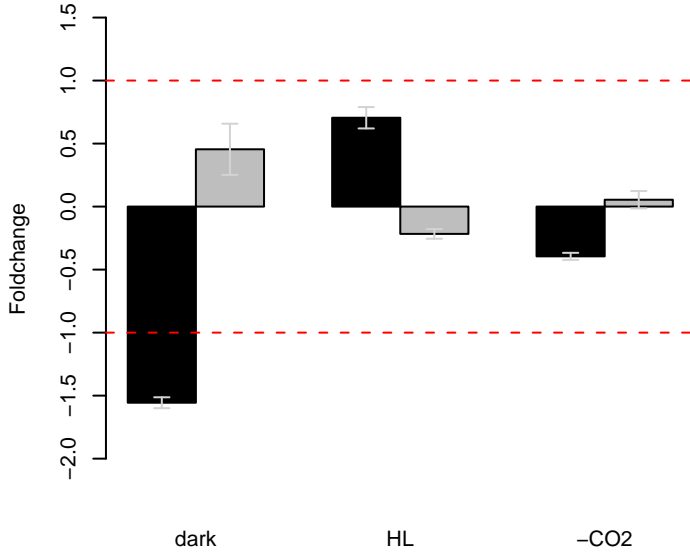
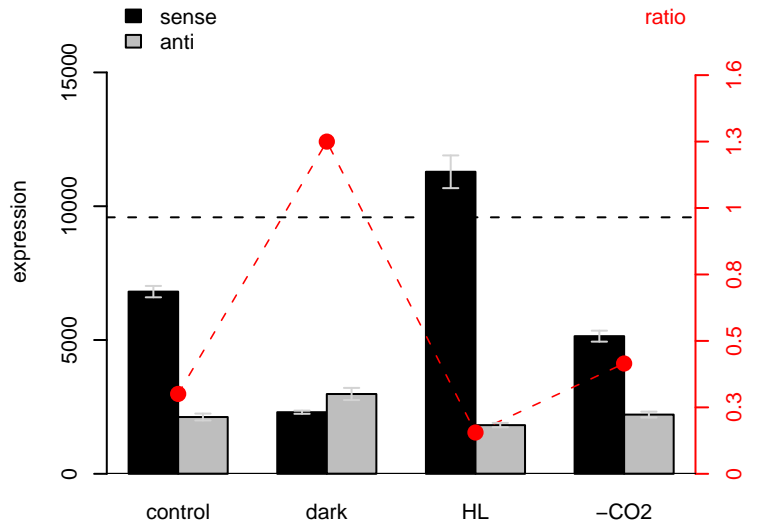
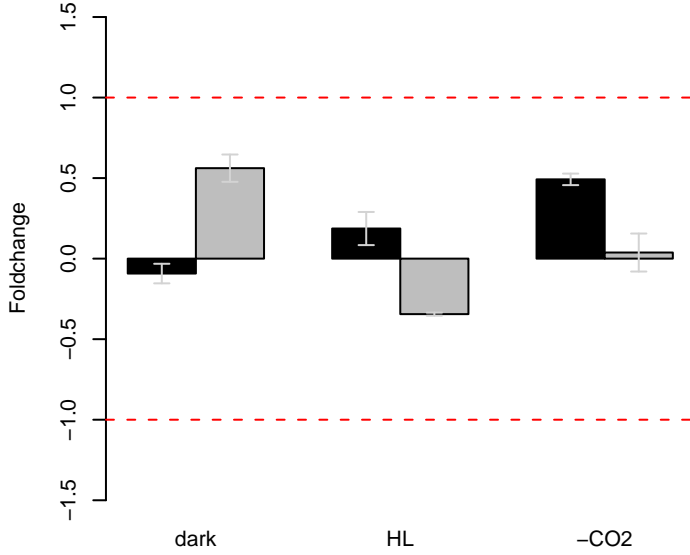
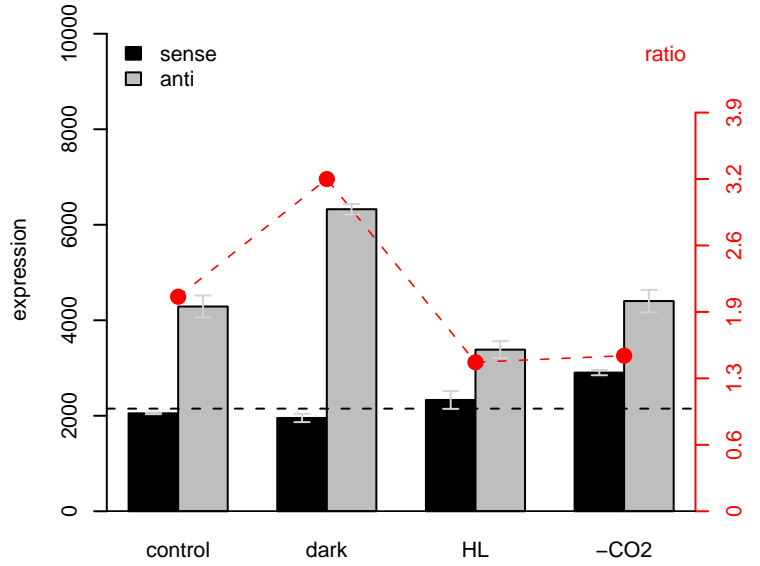
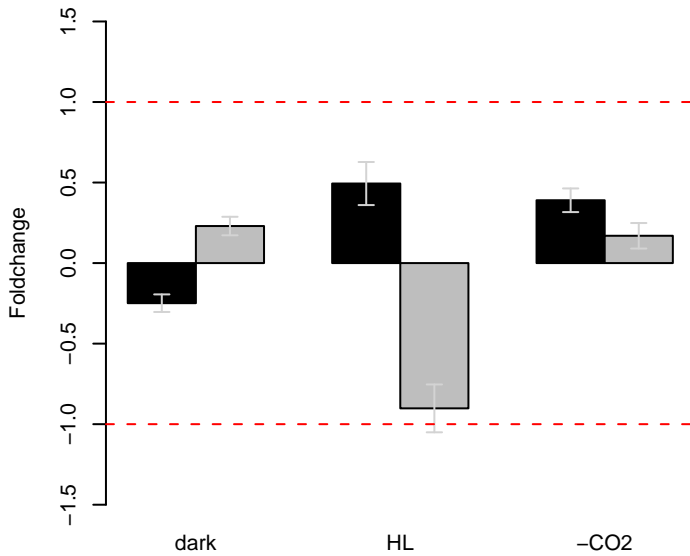
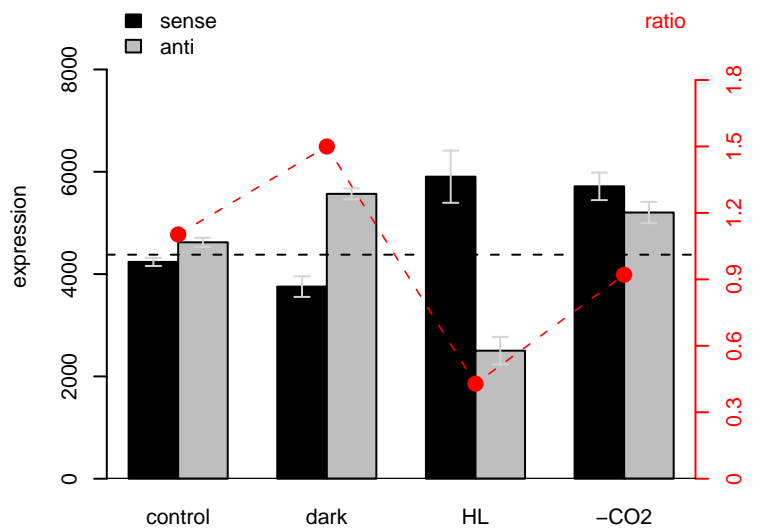


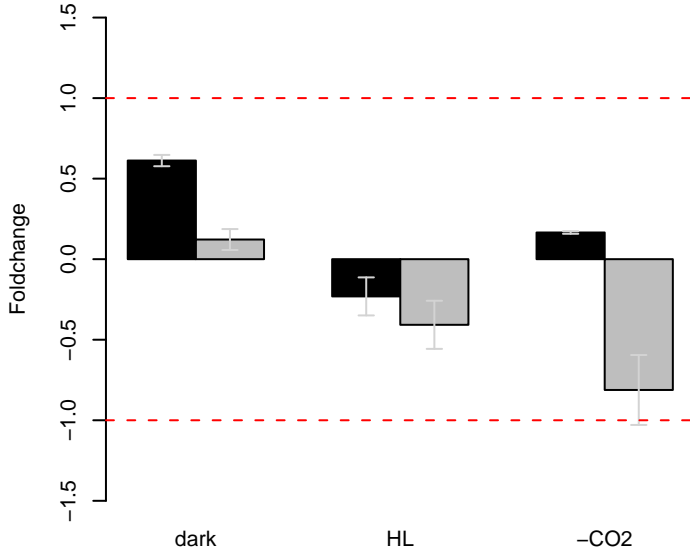
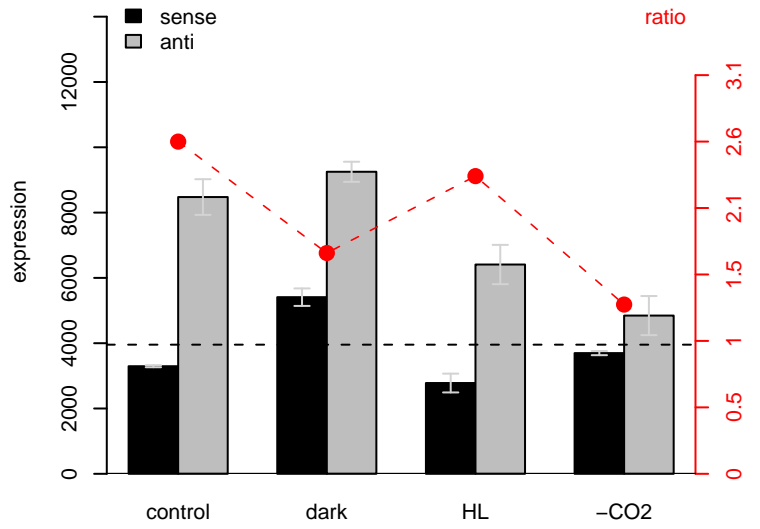
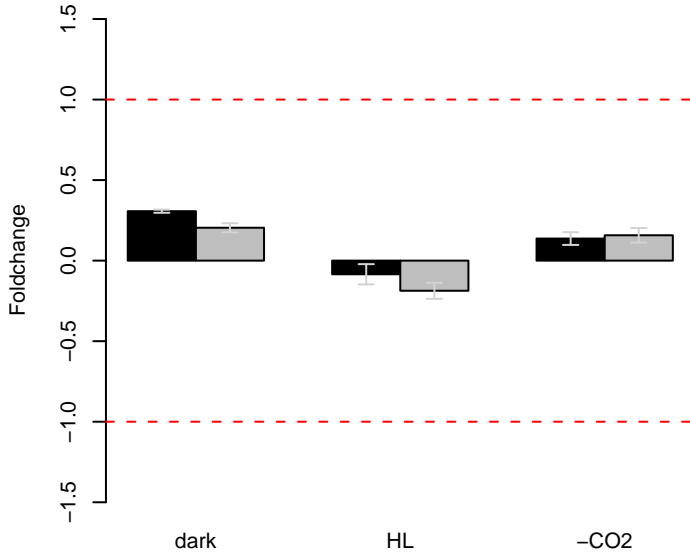
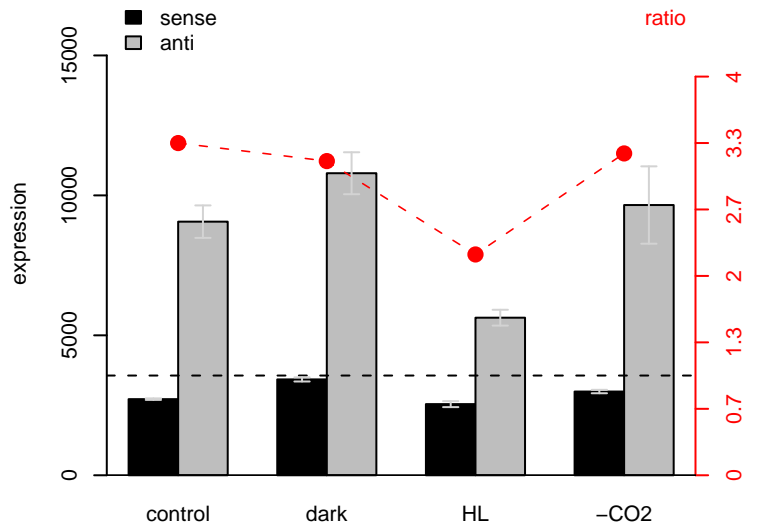
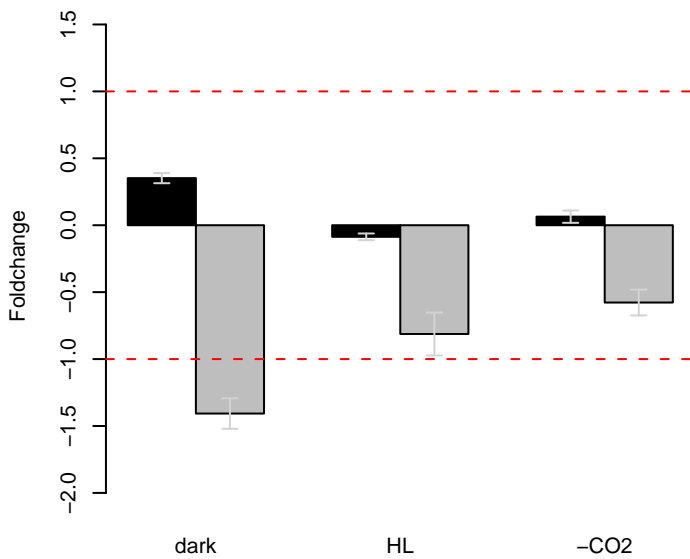
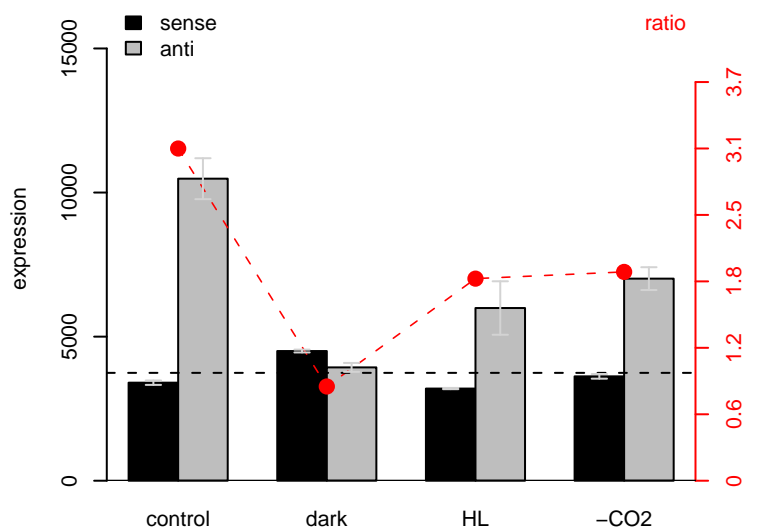
**fecB(slr1491)**

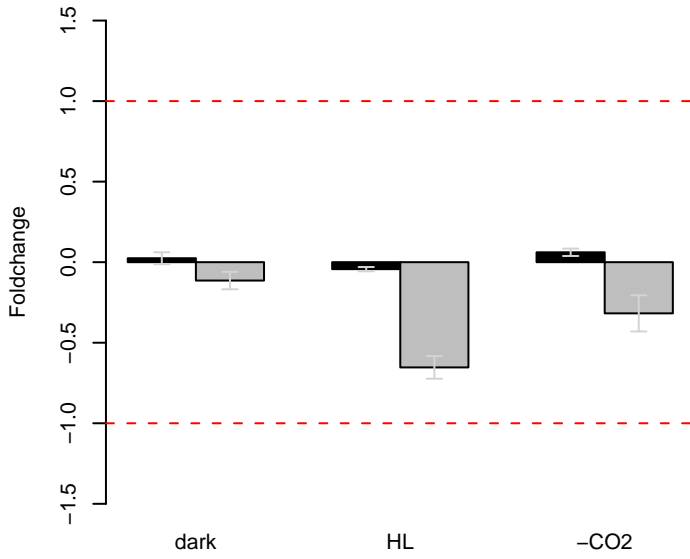
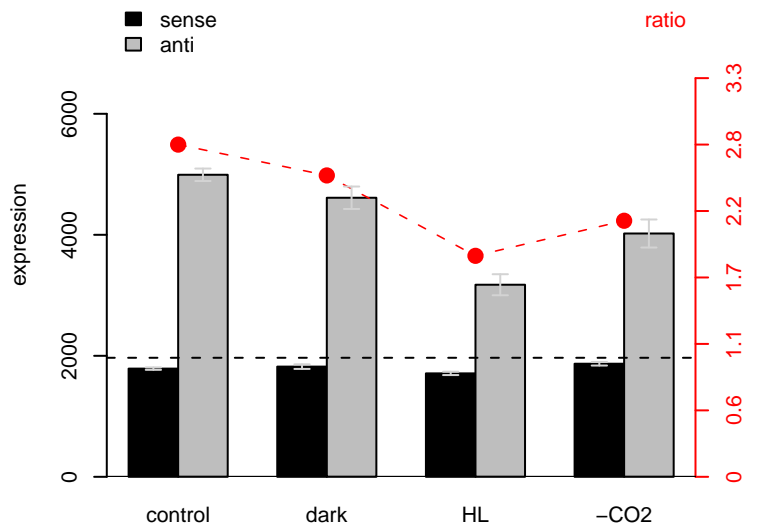
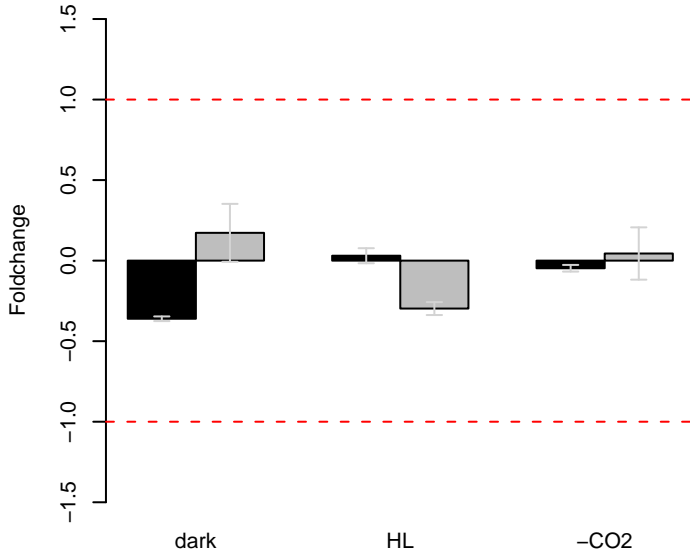
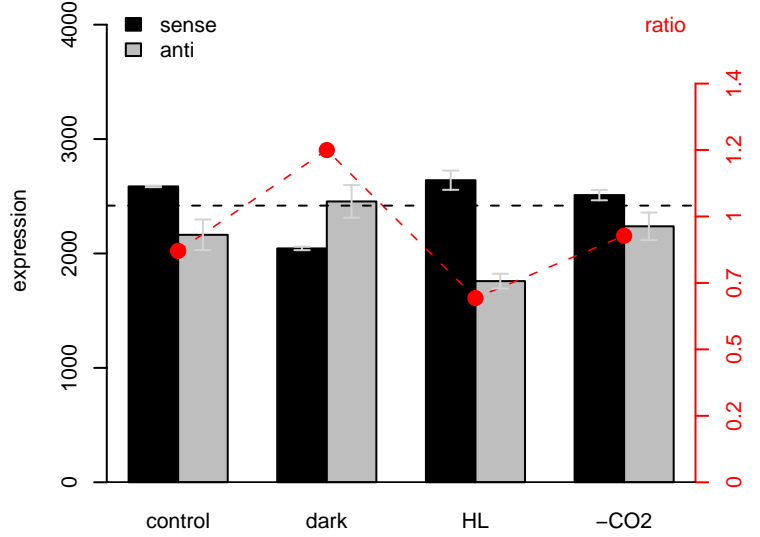
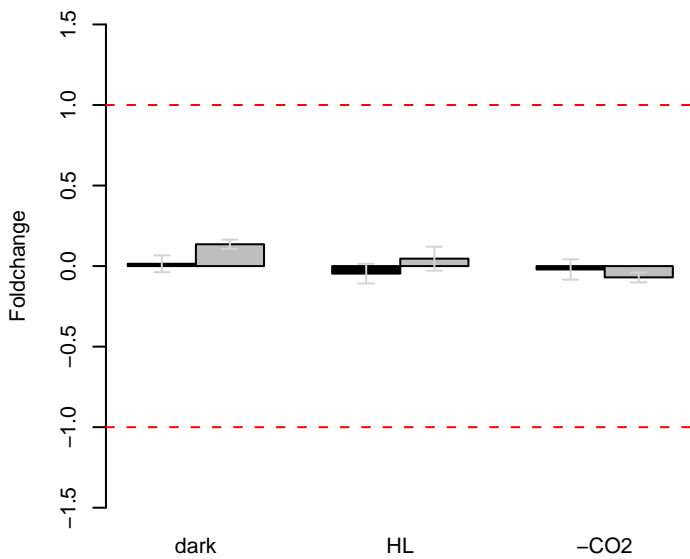
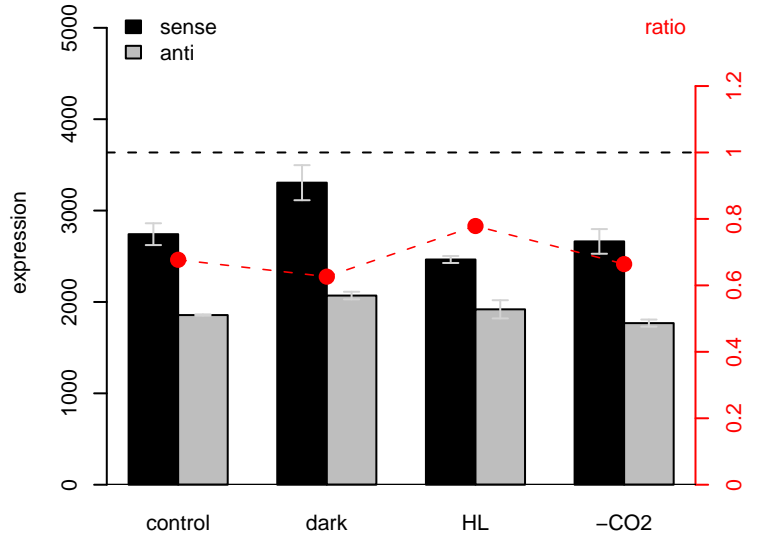


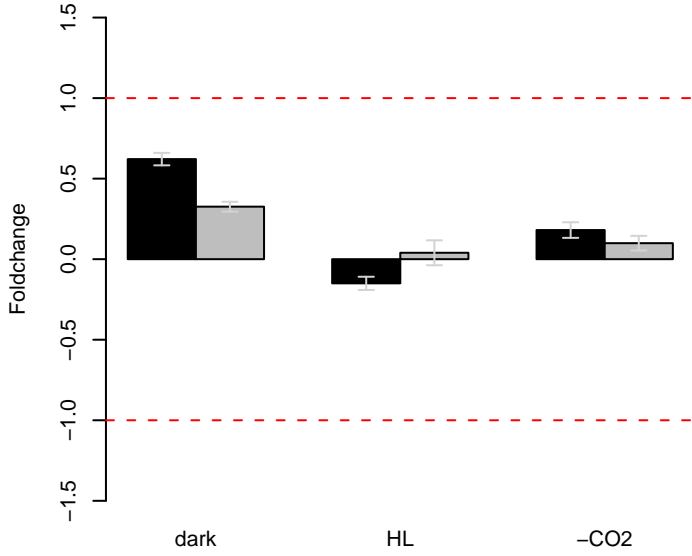
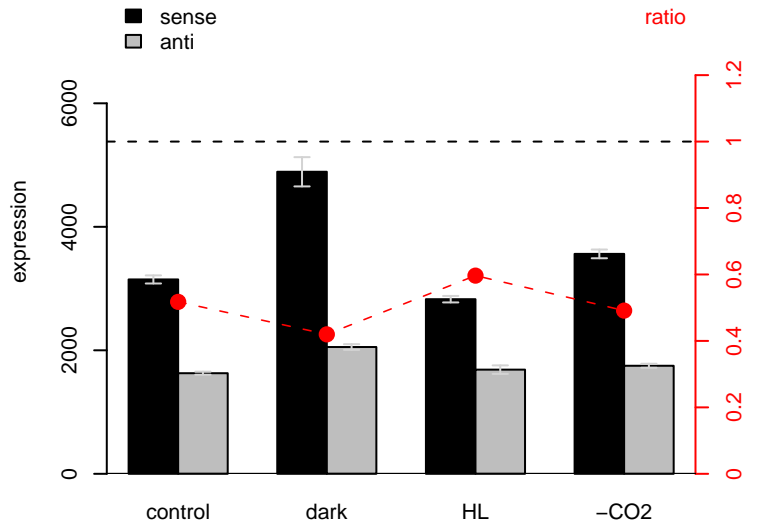
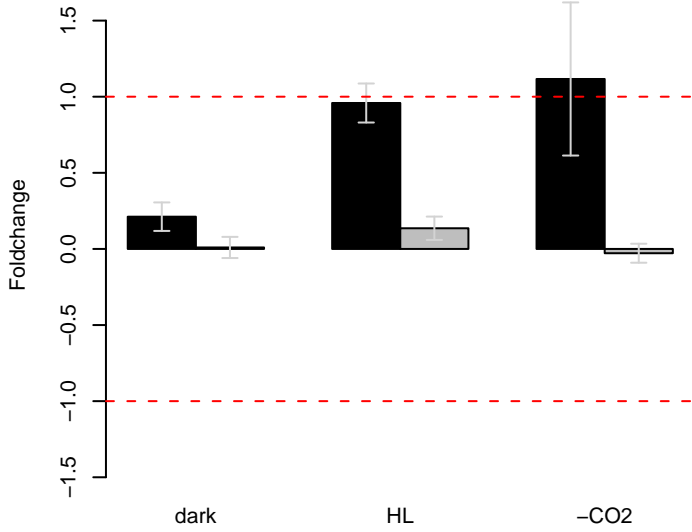
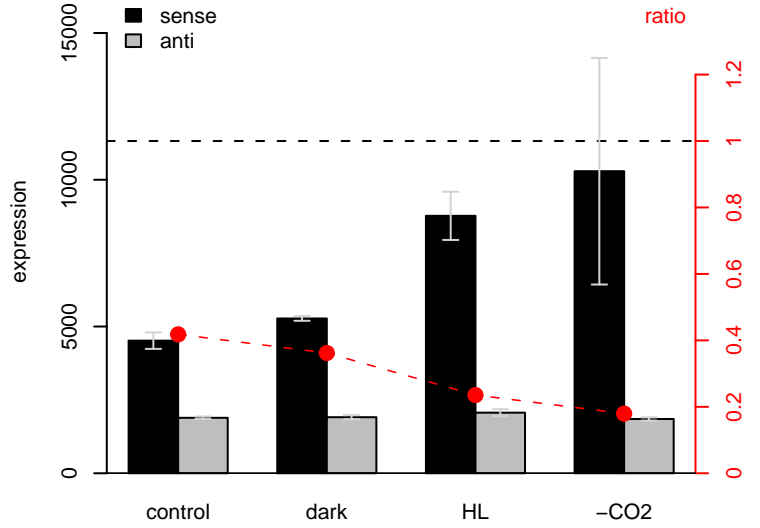
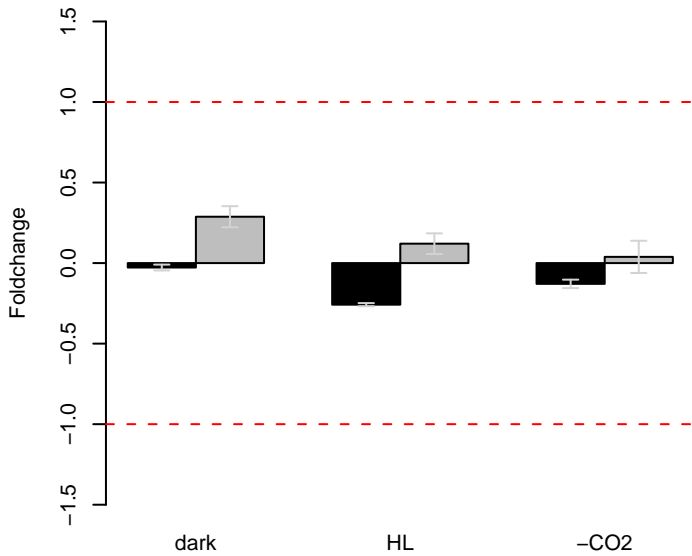
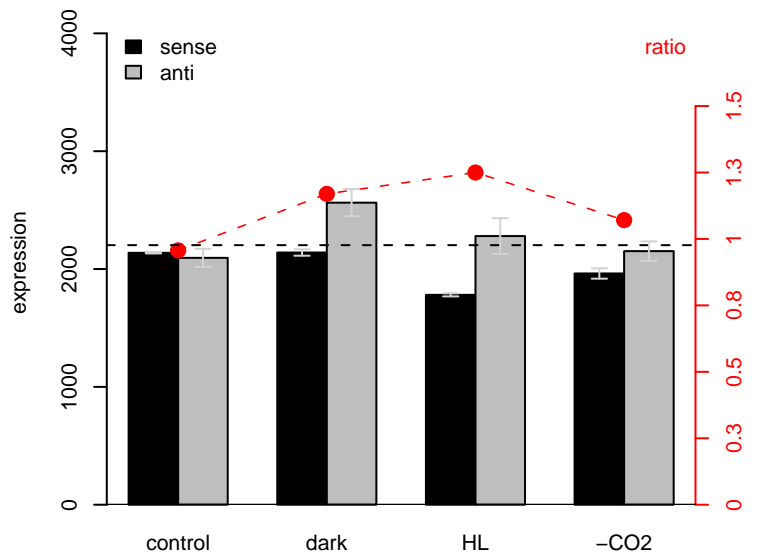
**genome\_46**

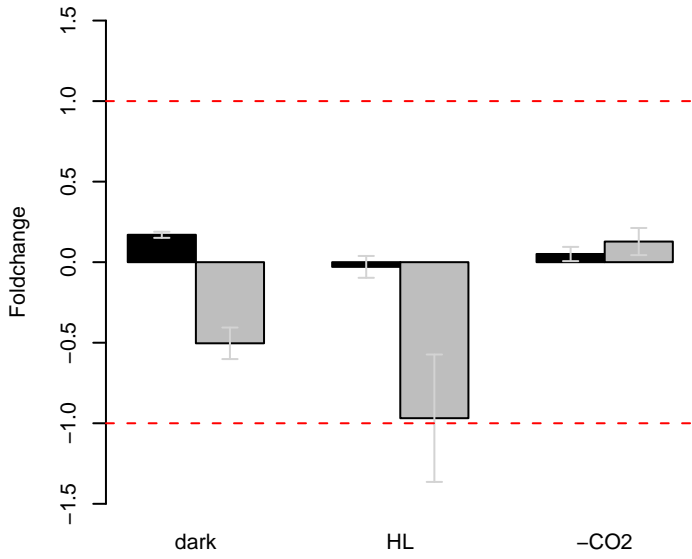
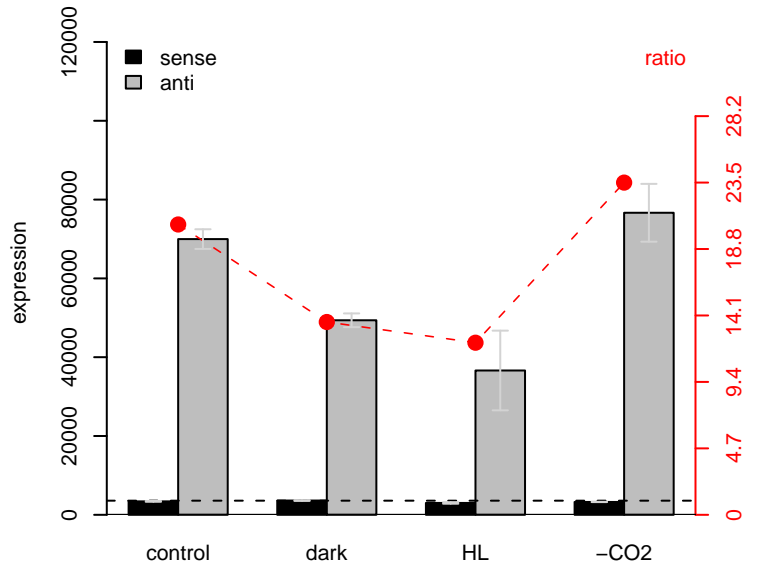
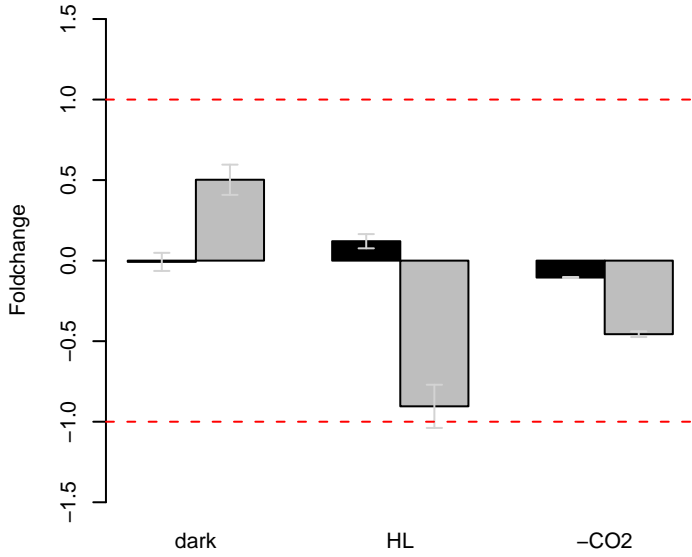
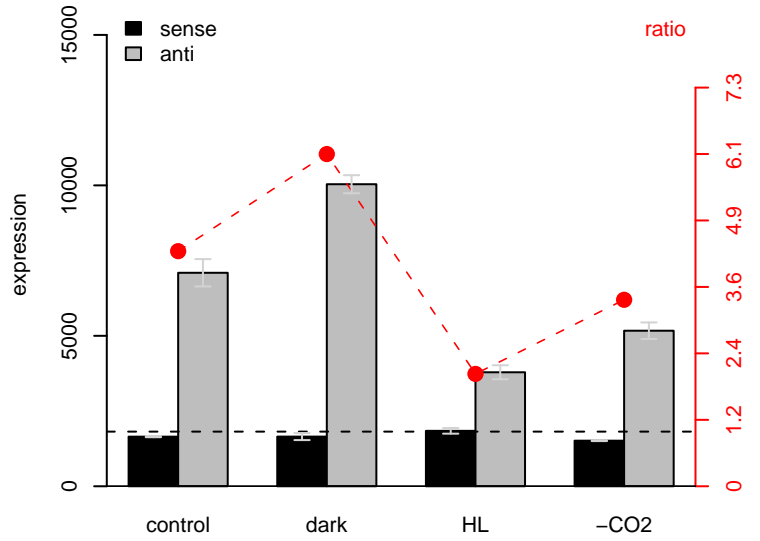
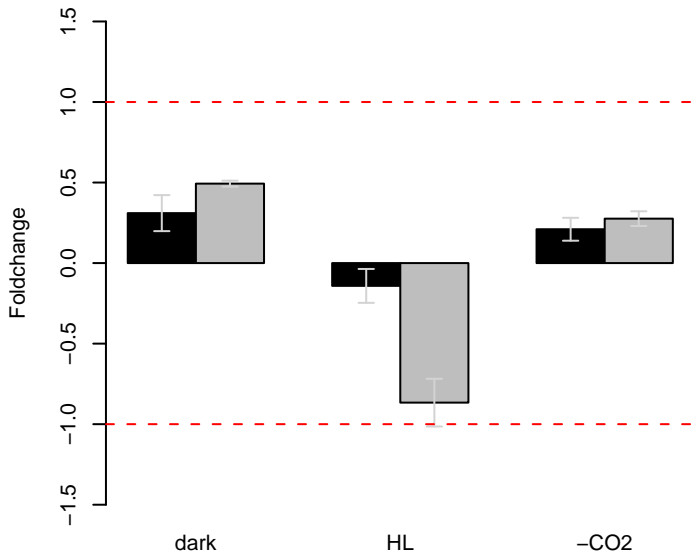
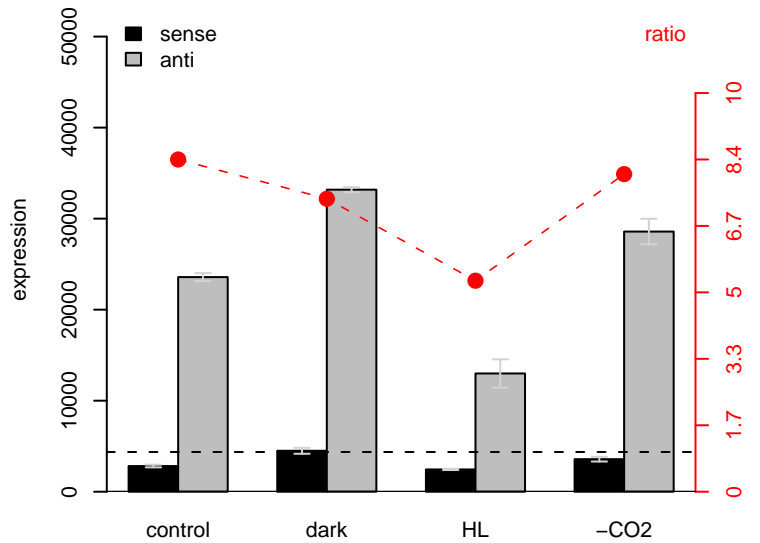


**metX(sll0927)****genome\_469****dsbD(sll0621)****genome\_4701****gltB(sll1499)****genome\_4712**

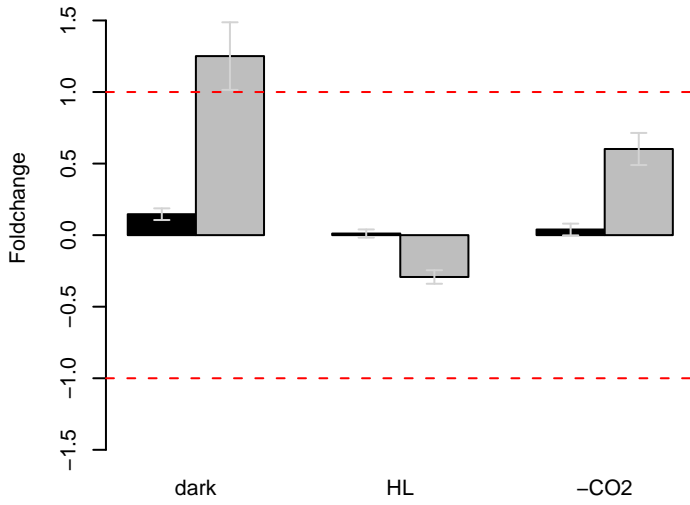
**ddh(slr1556)****genome\_4714****slI0925****genome\_473****slr1557****genome\_4719**

**sll1496****genome\_4721****hisZ(slr1560)****genome\_4726****sll1489****genome\_4736**

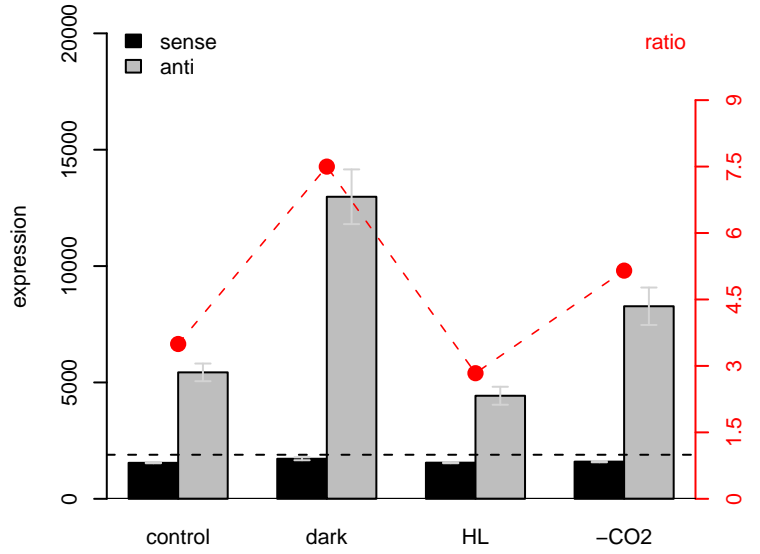
**slr1570****genome\_4738****ssl2874****genome\_4745****devB(sll1479)****genome\_4758**

**slr1476****genome\_4763****slr1586****genome\_4776****slr0748****genome\_4785**

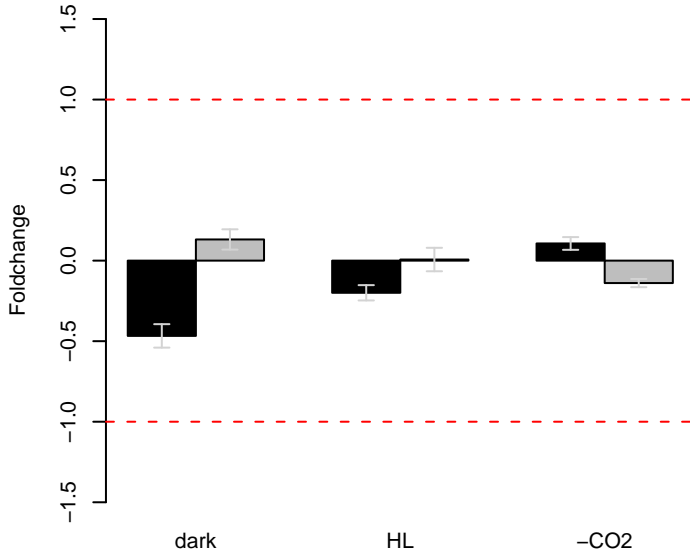
**sli0732**



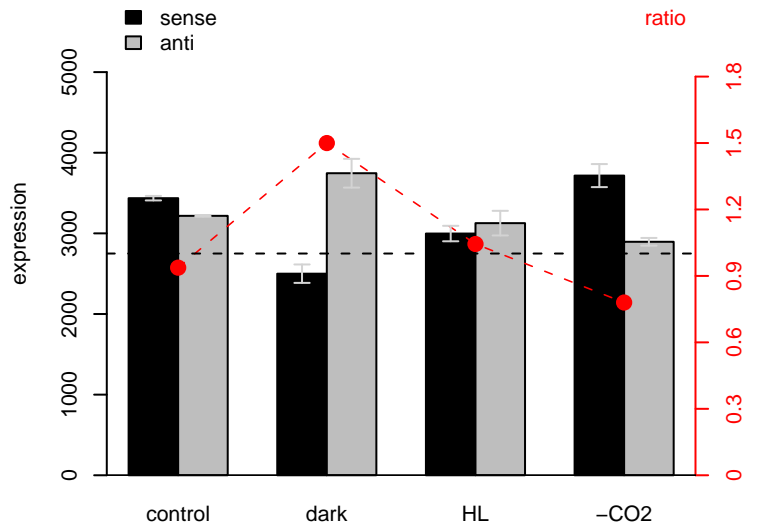
**genome\_4797**



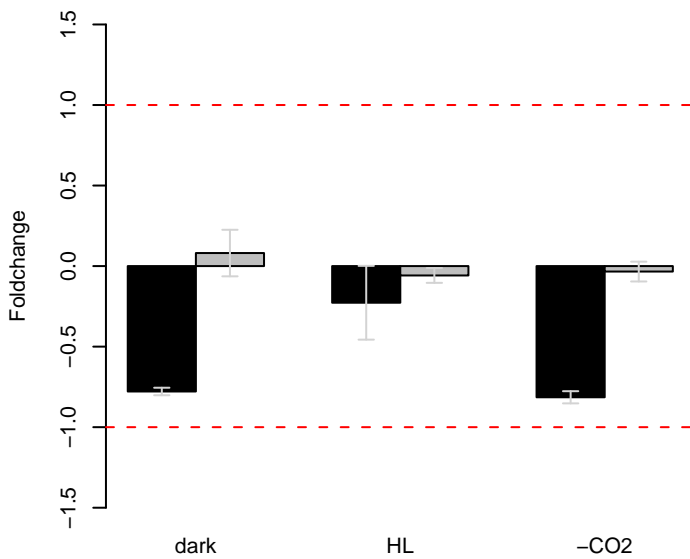
**epsB(sli0923)**



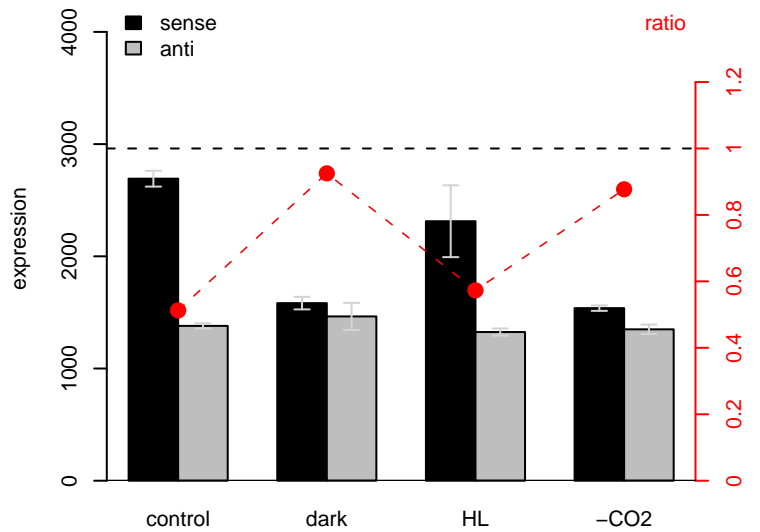
**genome\_479**

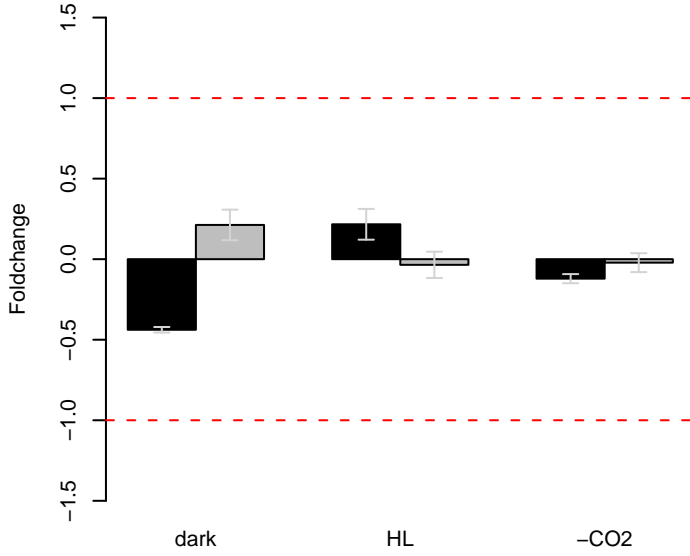
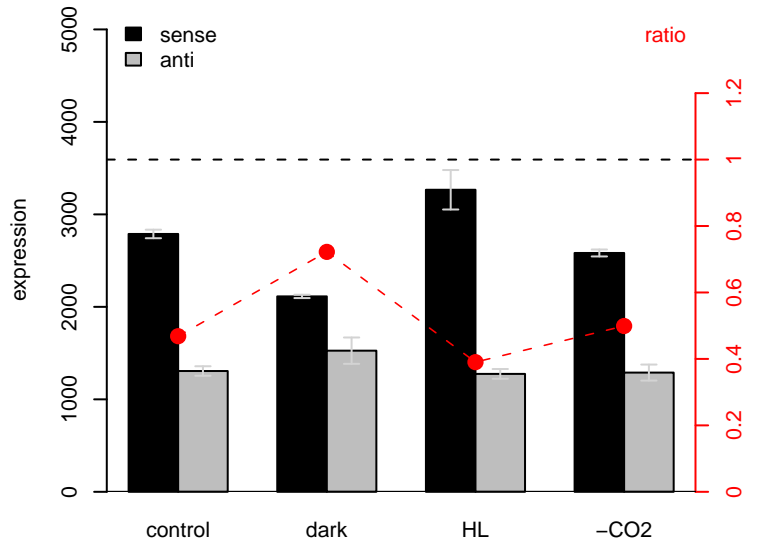
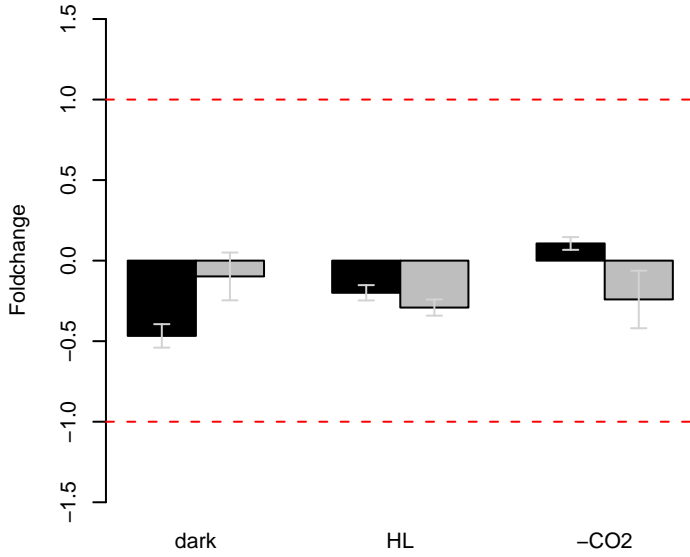
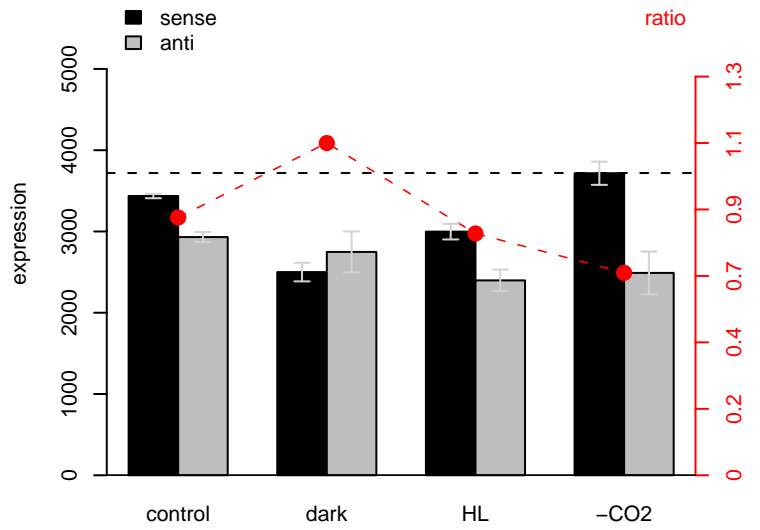
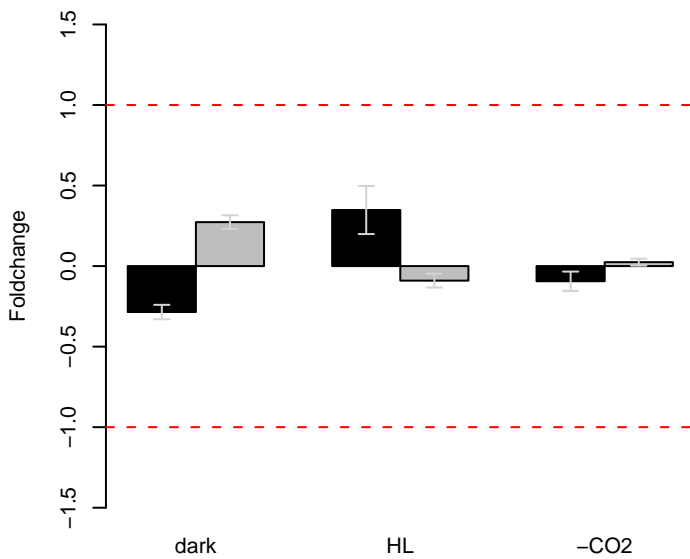
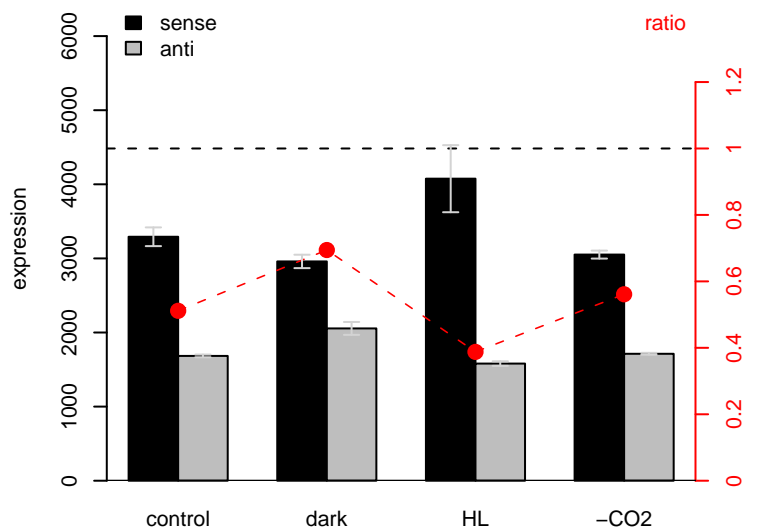


**p(slr0753)**

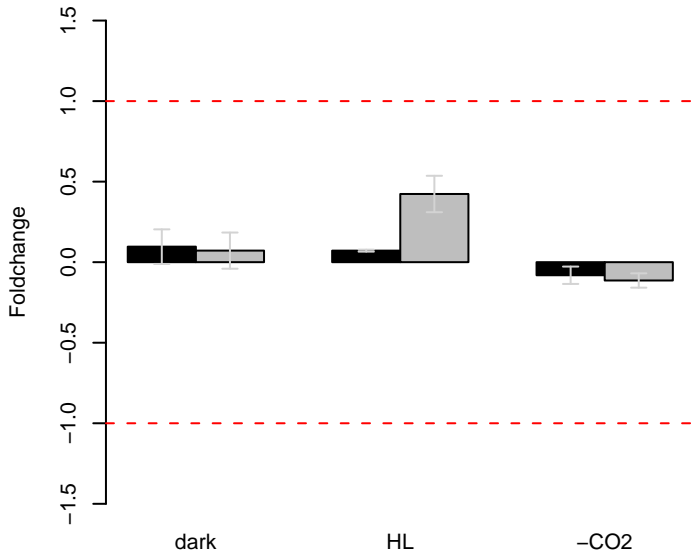
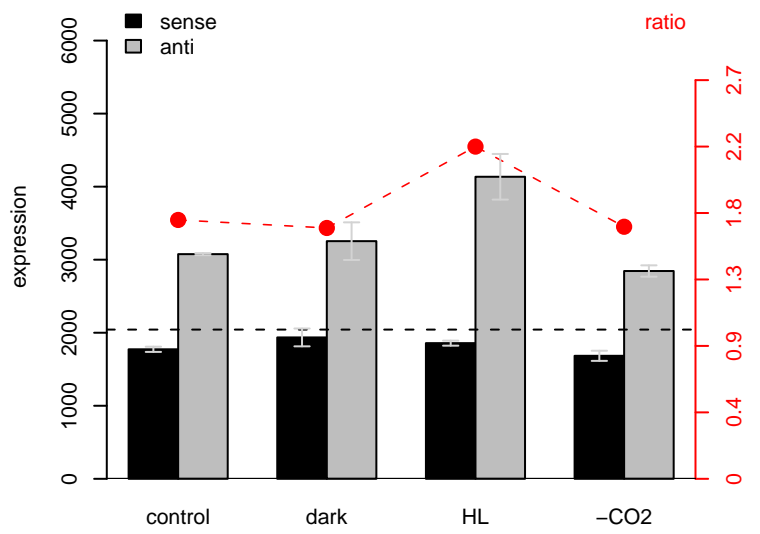
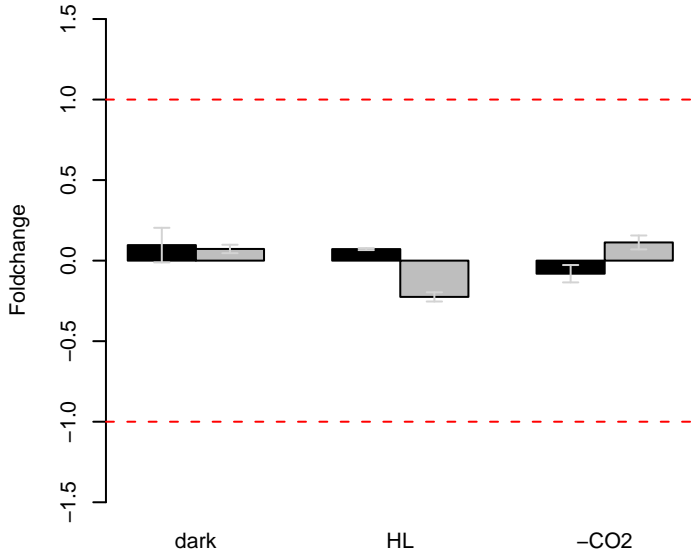
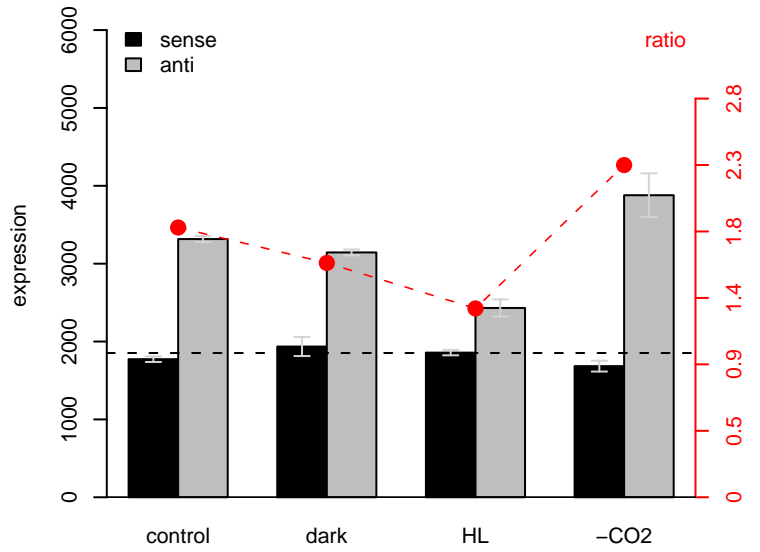
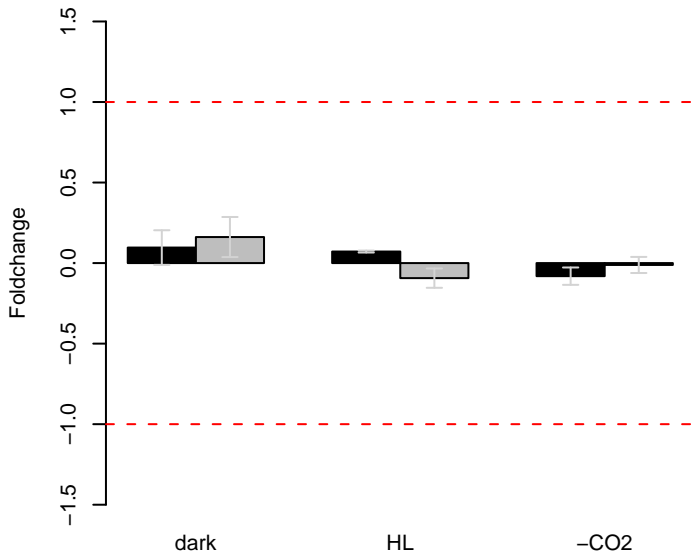
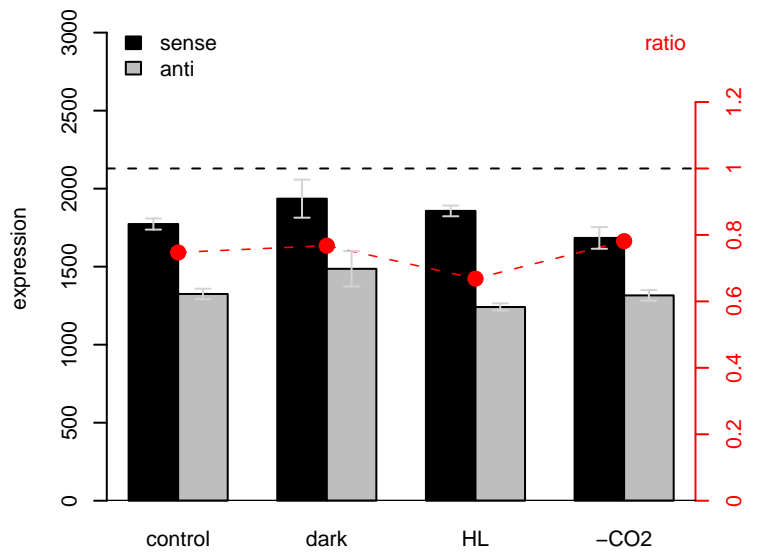


**genome\_4801**

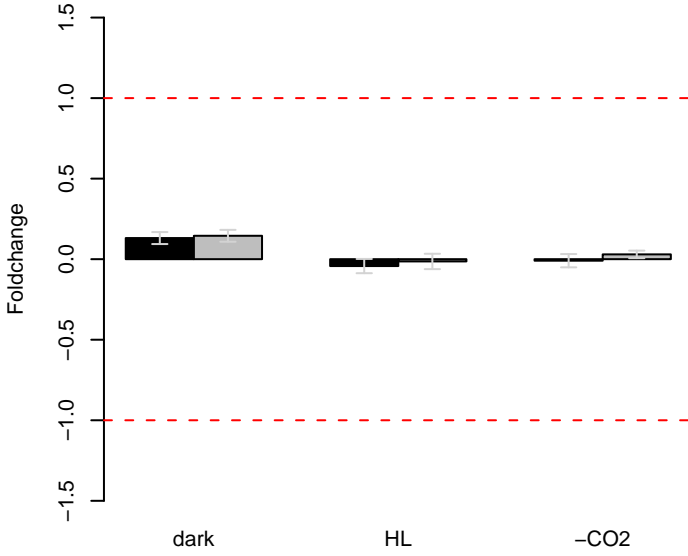


**accA(sll0728)****genome\_4805****epsB(sll0923)****genome\_479****slr0758****genome\_4821**

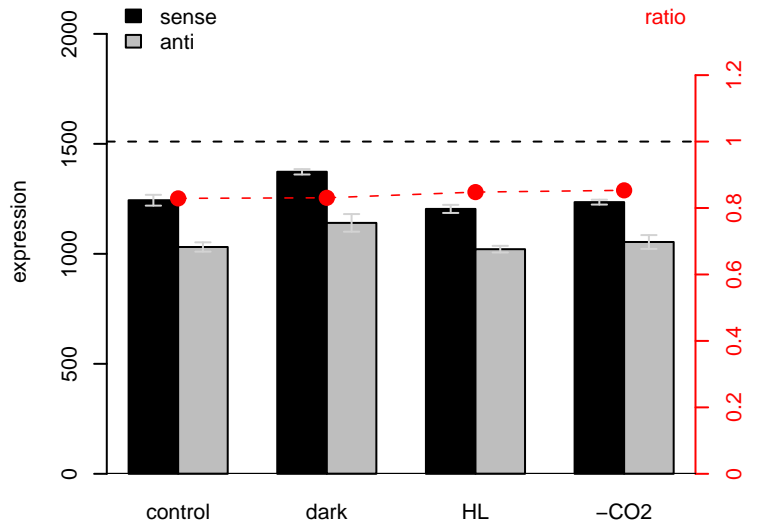


**sli0723****genome\_4822****sli0723****genome\_4822****sli0723****genome\_4822**

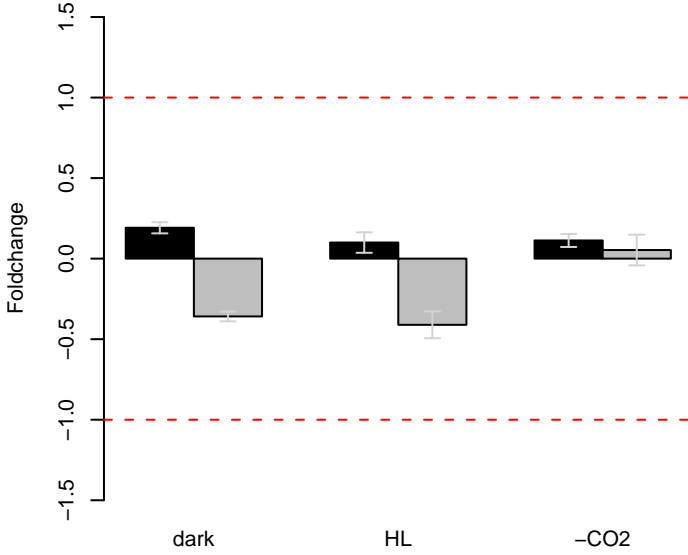
**sli0720**



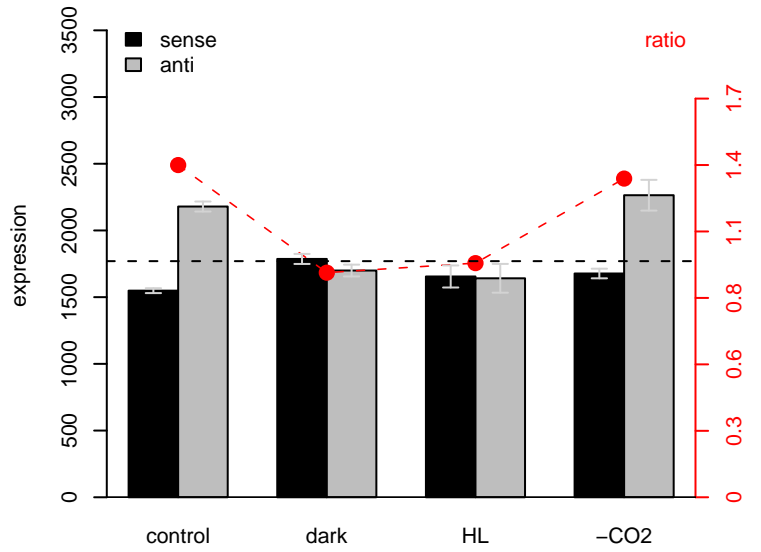
**genome\_4831**



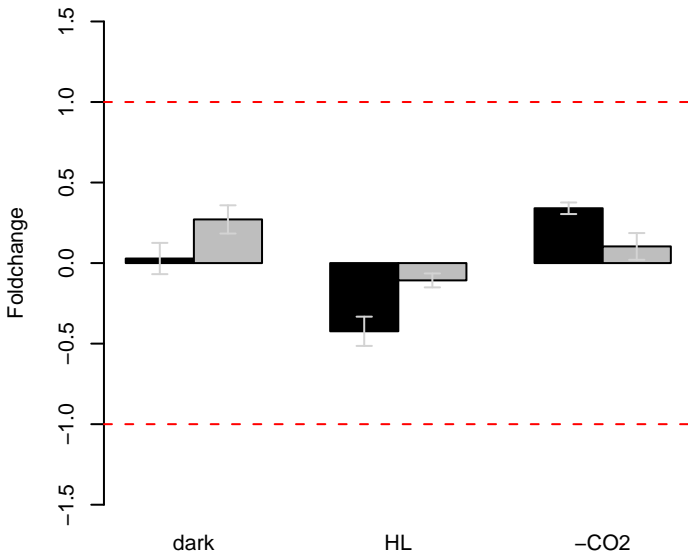
**hlyB(slr1651)**



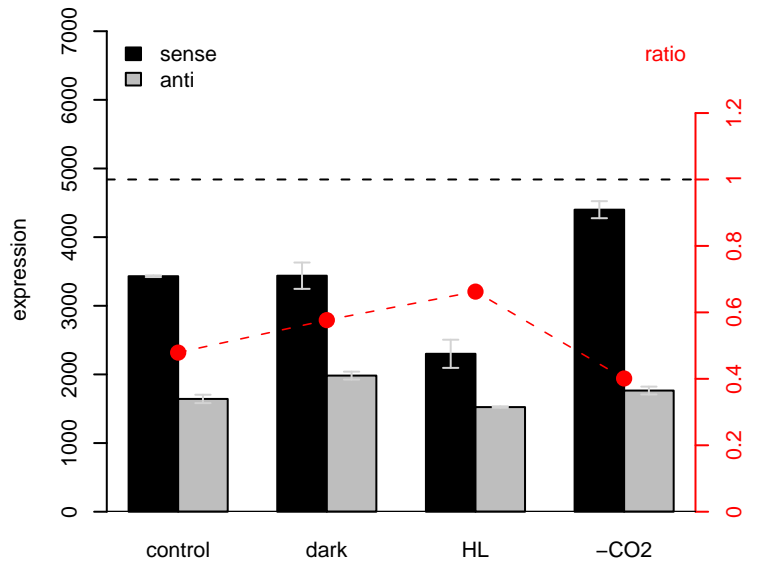
**genome\_4836**



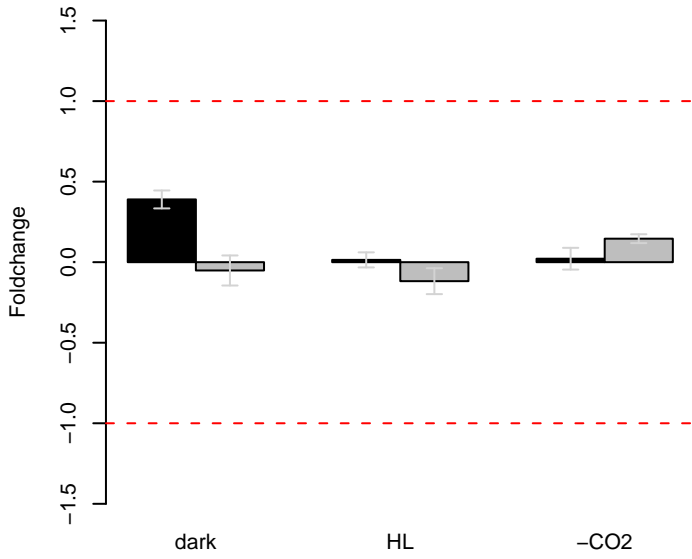
**ama(slr1653)**



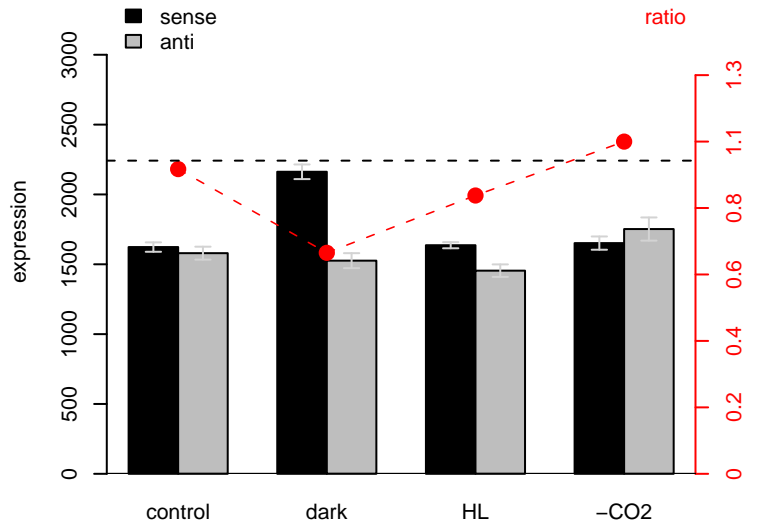
**genome\_4840**



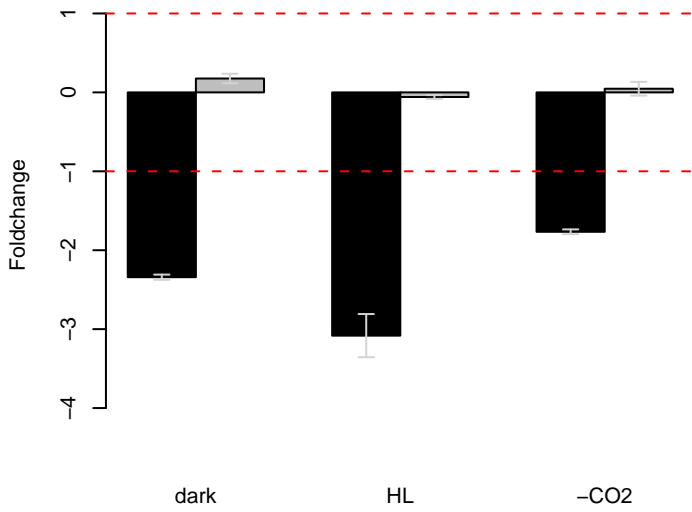
**slr1549**



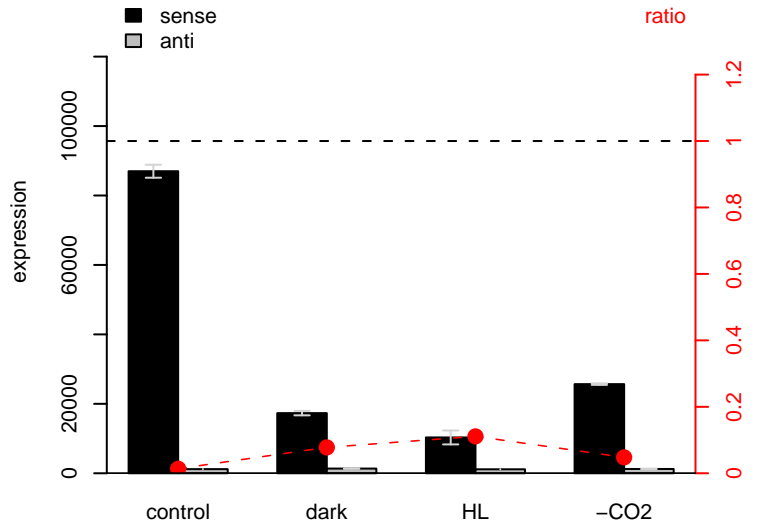
**genome\_4844**



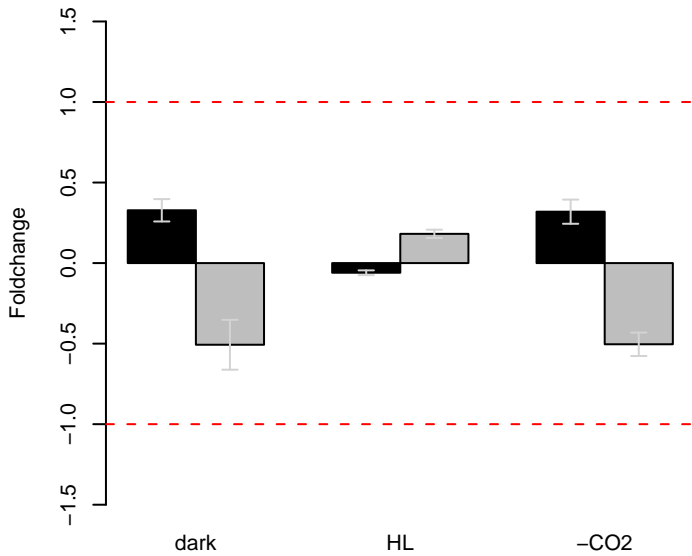
**psaL(slr1655)**



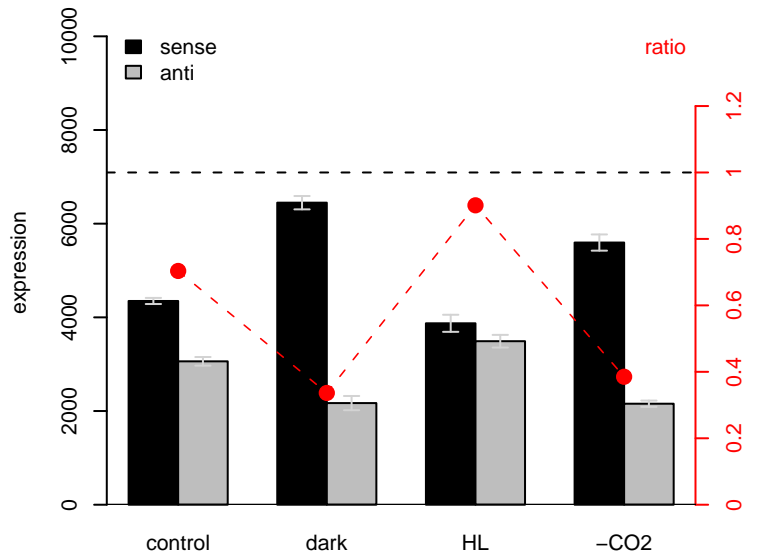
**genome\_4847**



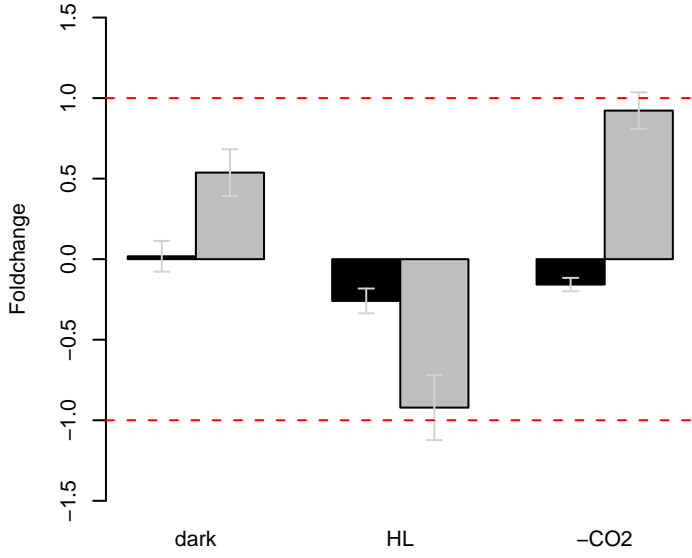
**slr1657**



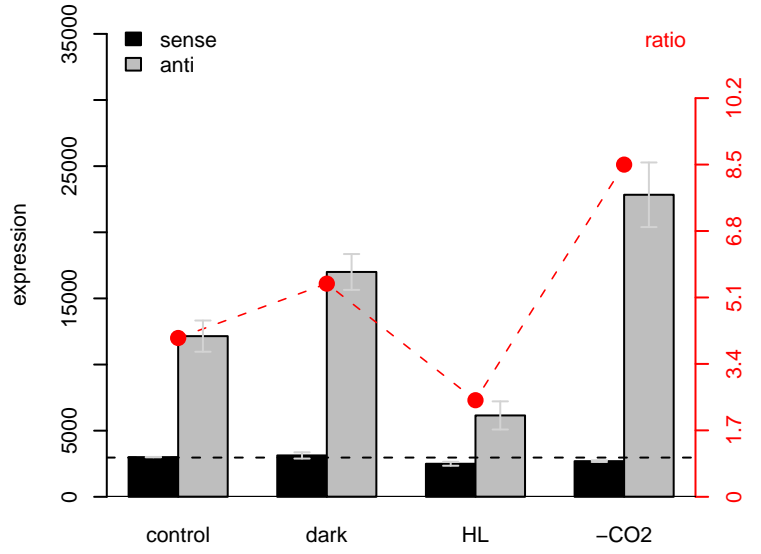
**genome\_4850**



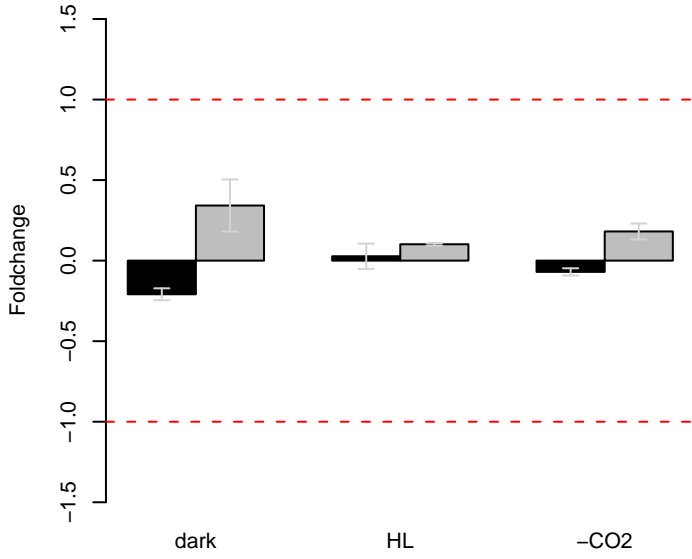
**ppx(sll1546)**



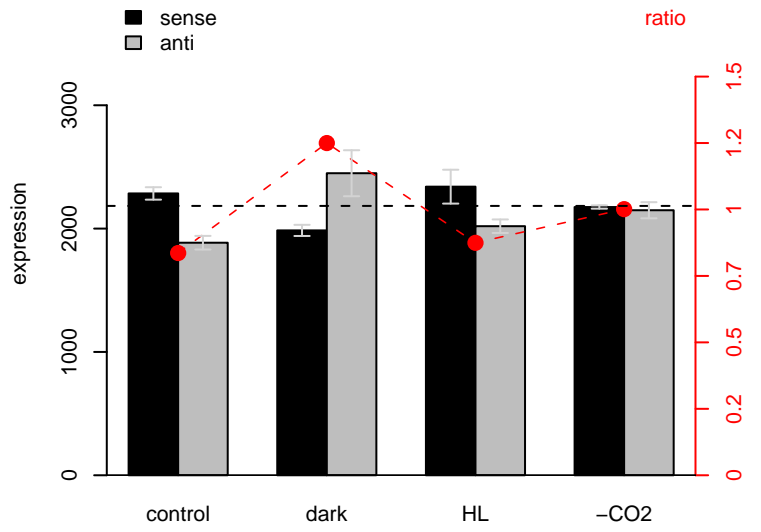
**genome\_4859**



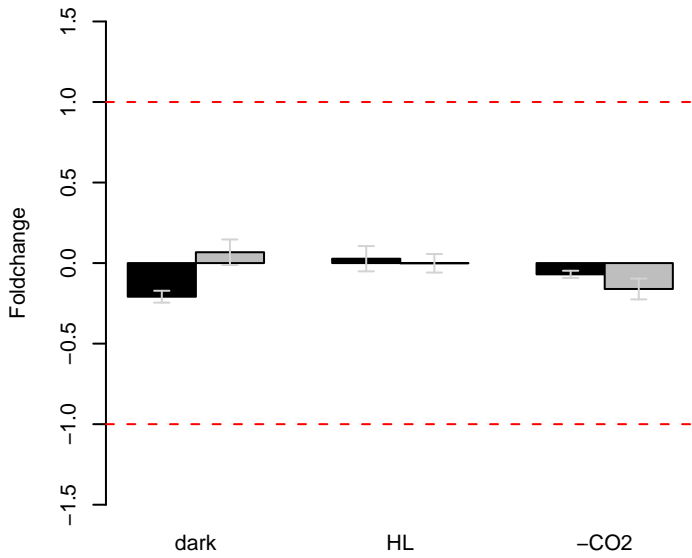
**slr1661**



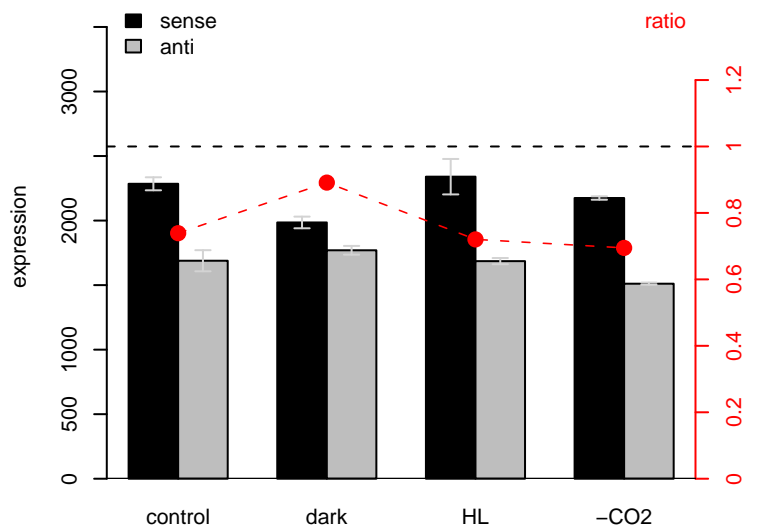
**genome\_4861**

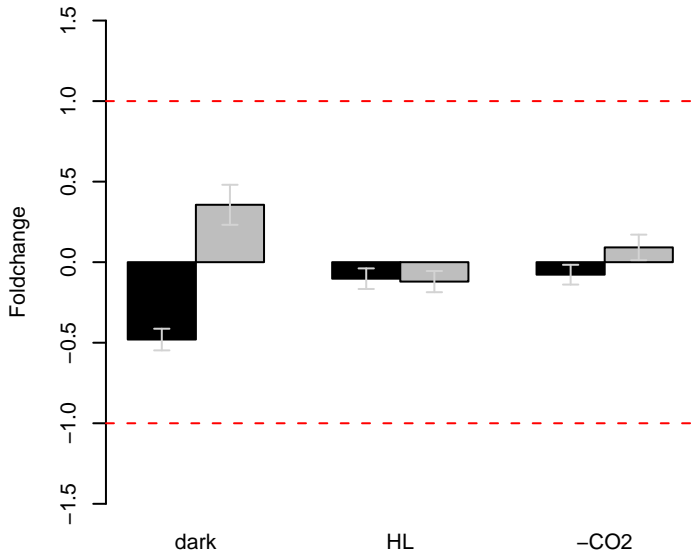
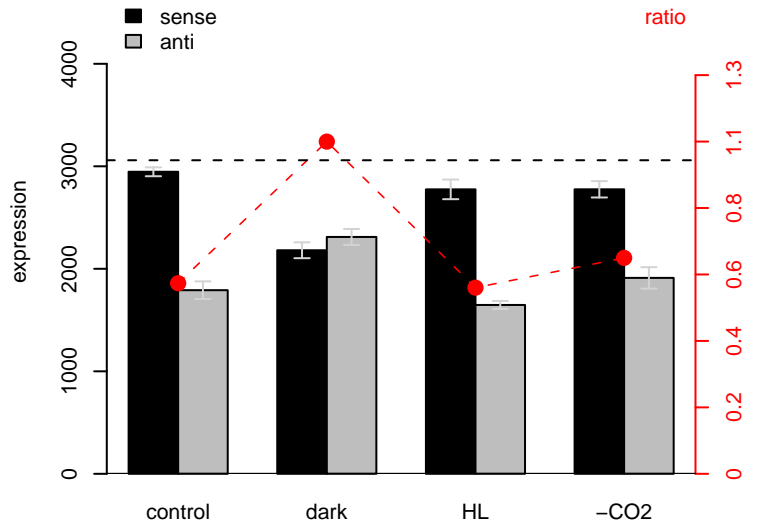
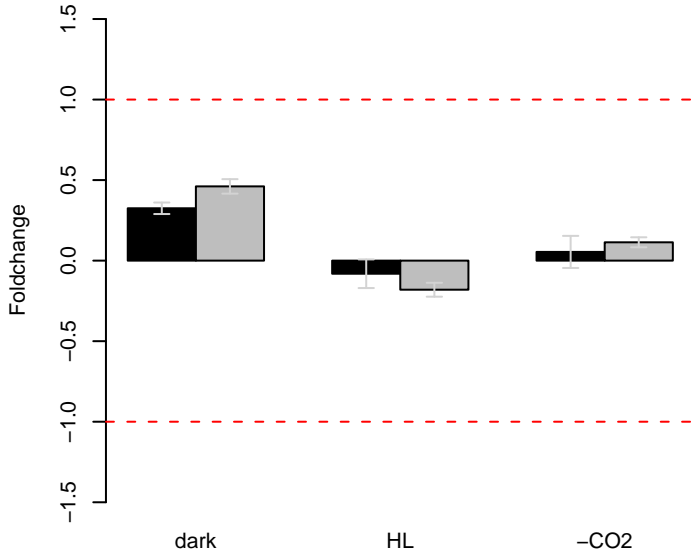
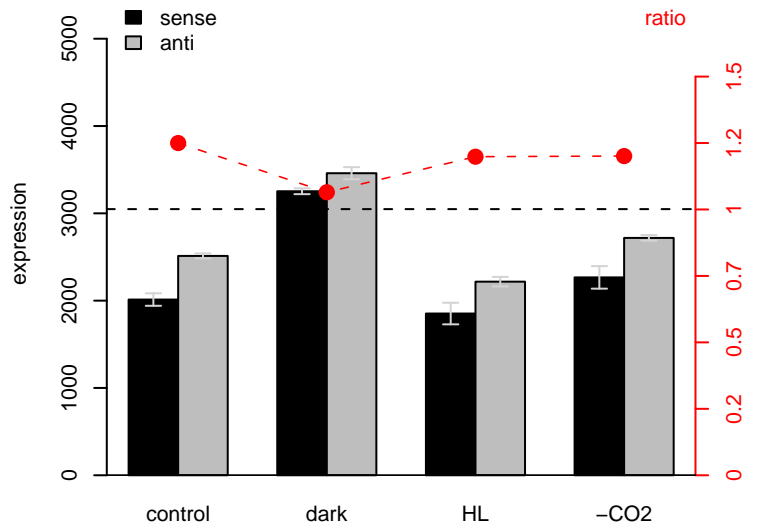
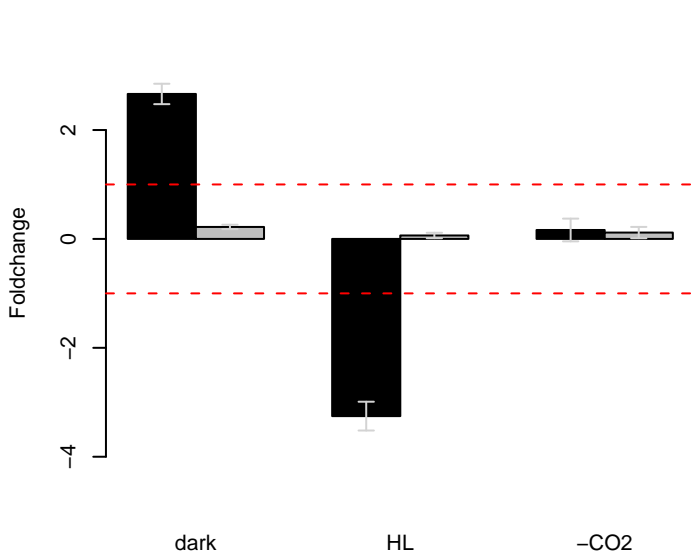
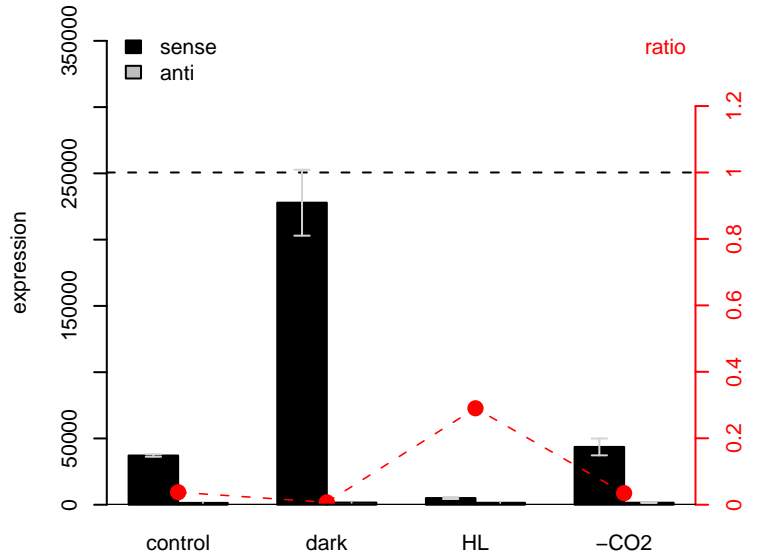


**slr1661**

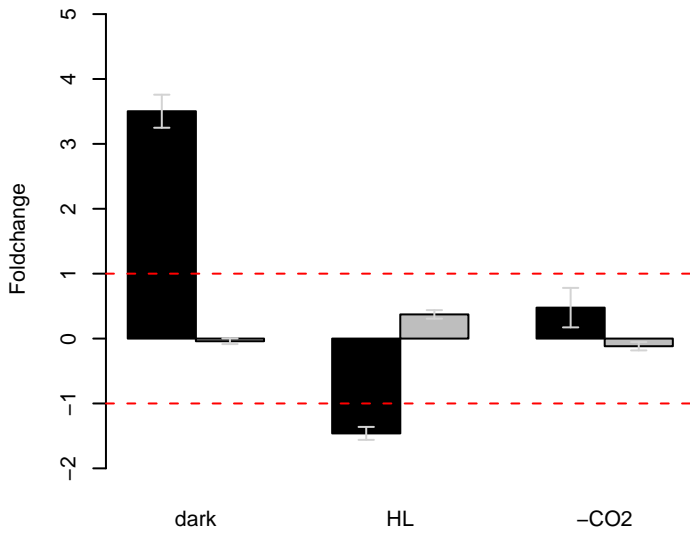


**genome\_4861**

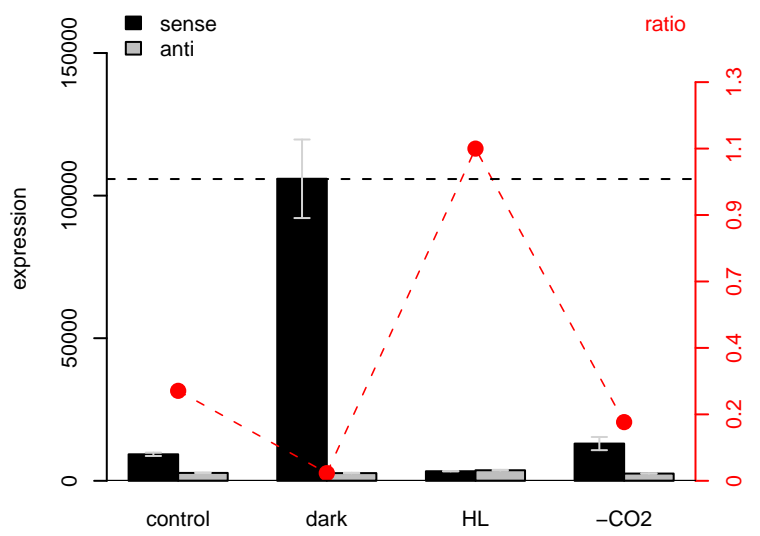


**slr0977****genome\_486****slr1543****genome\_4872****slr1667****genome\_4874**

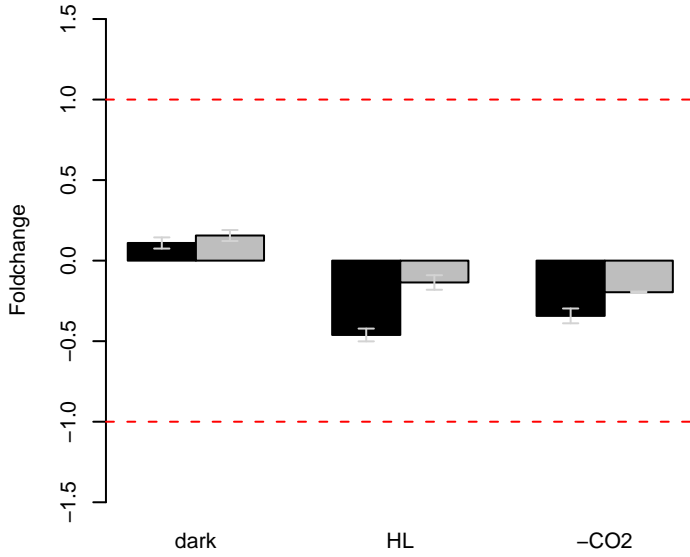
**slr1668**



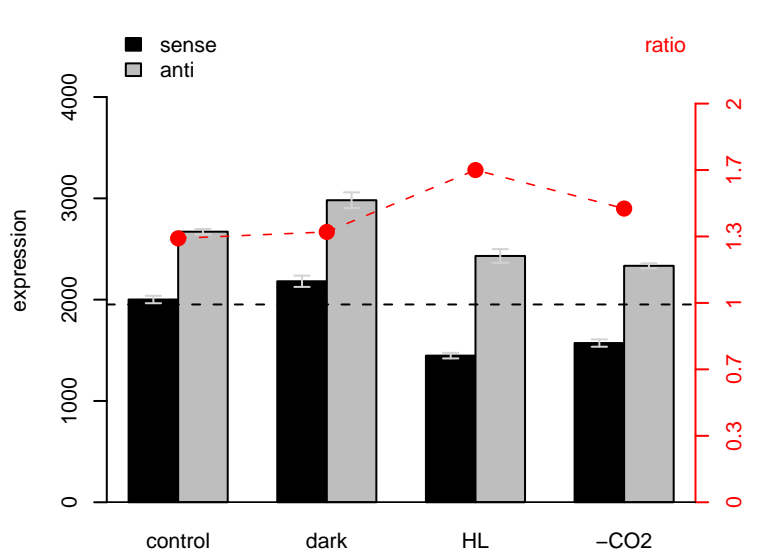
**genome\_4876**



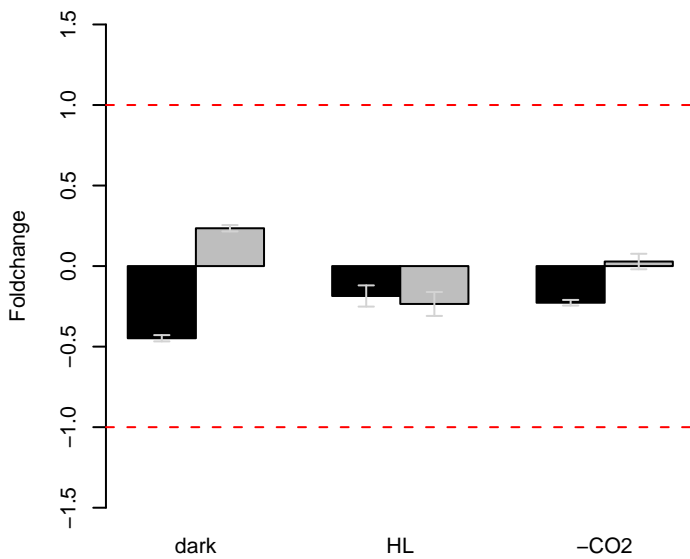
**norB(sll0450)**



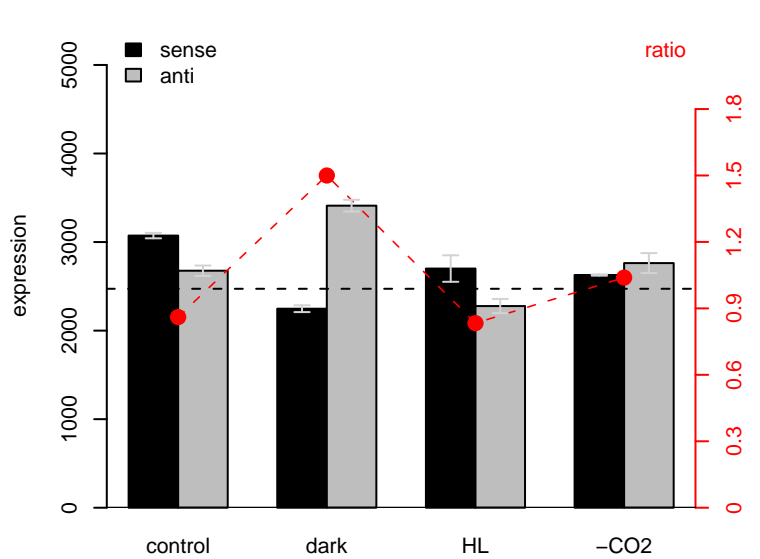
**genome\_4882**

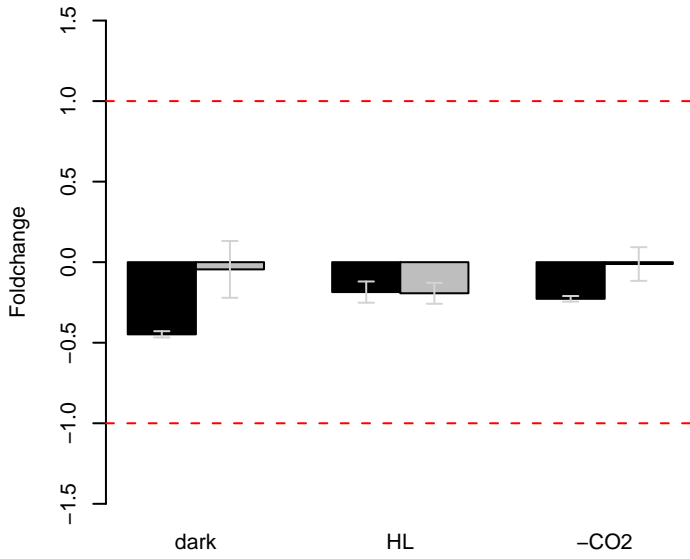
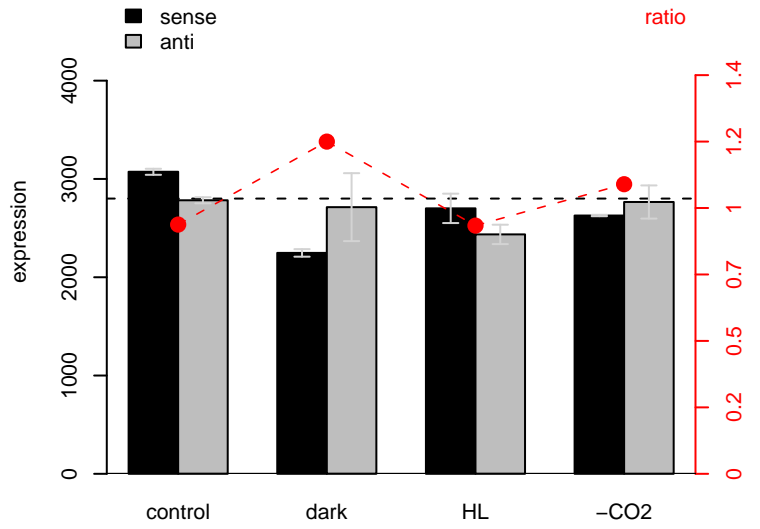
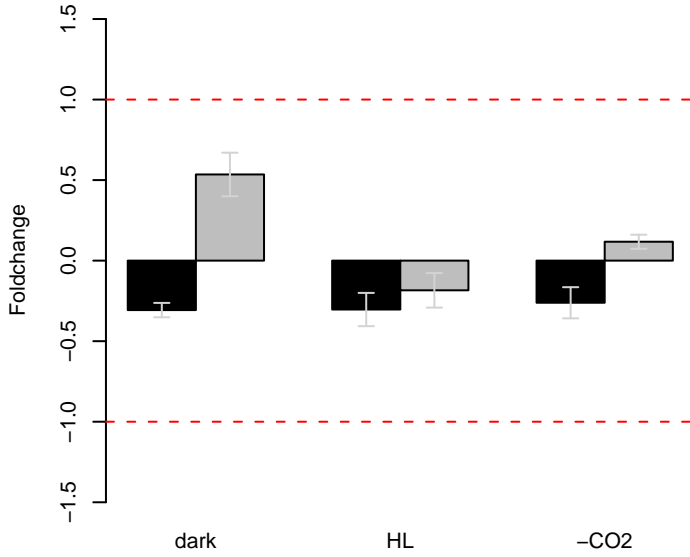
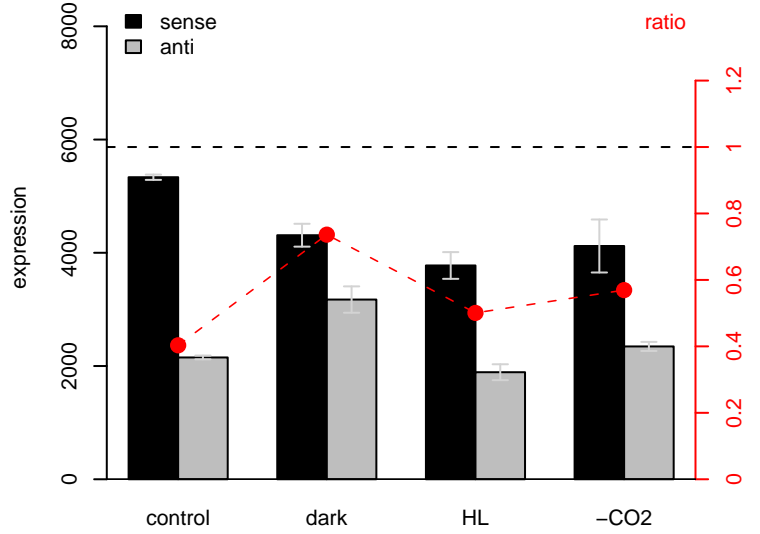
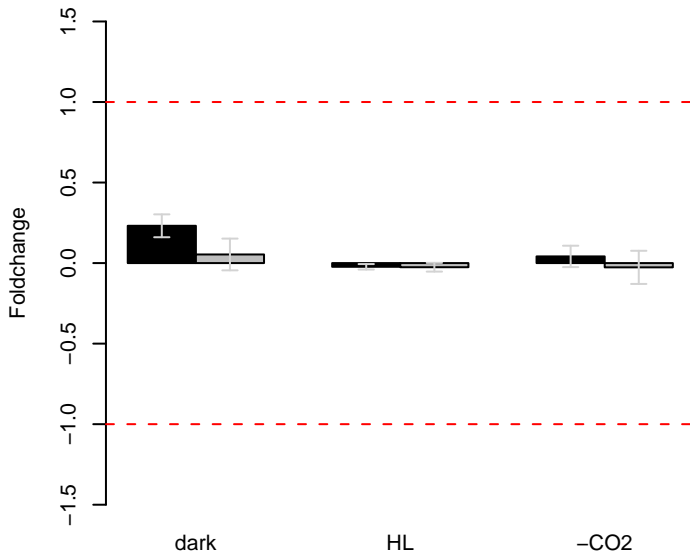
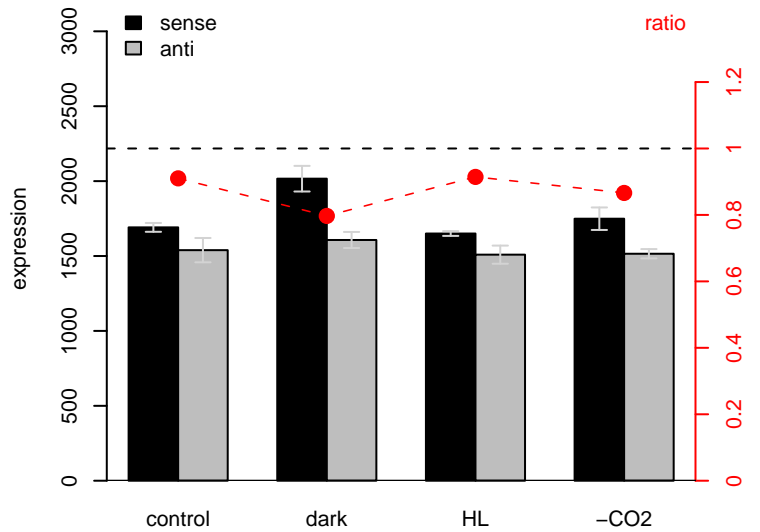


**sll0445**

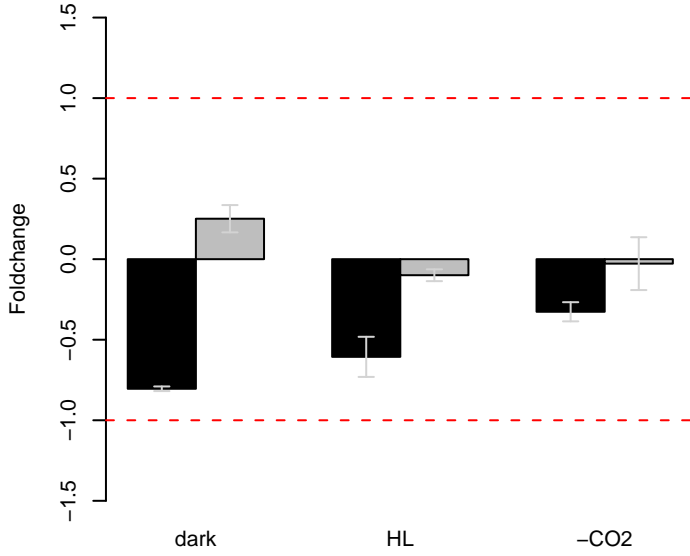


**genome\_4889**

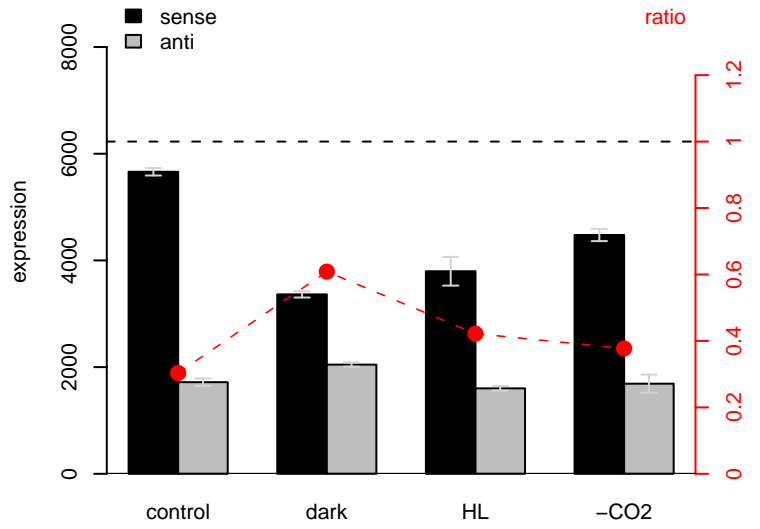


**sli0445****genome\_4889****sli0444****genome\_4892****fecB(slr1492)****genome\_48**

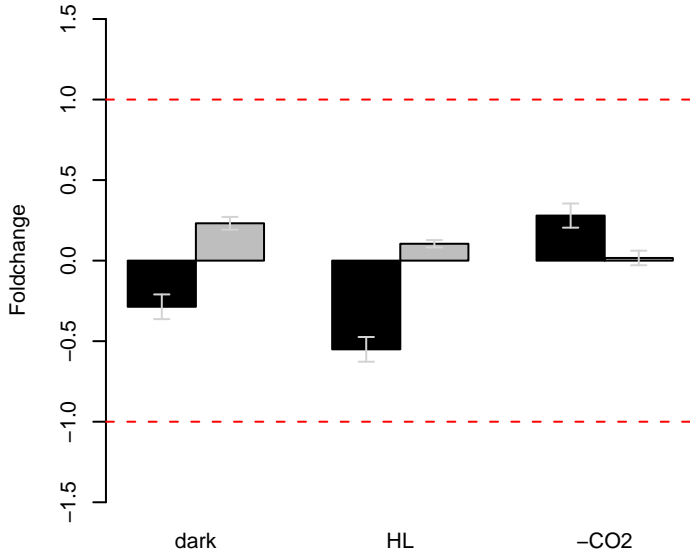
**ilvD(slr0452)**



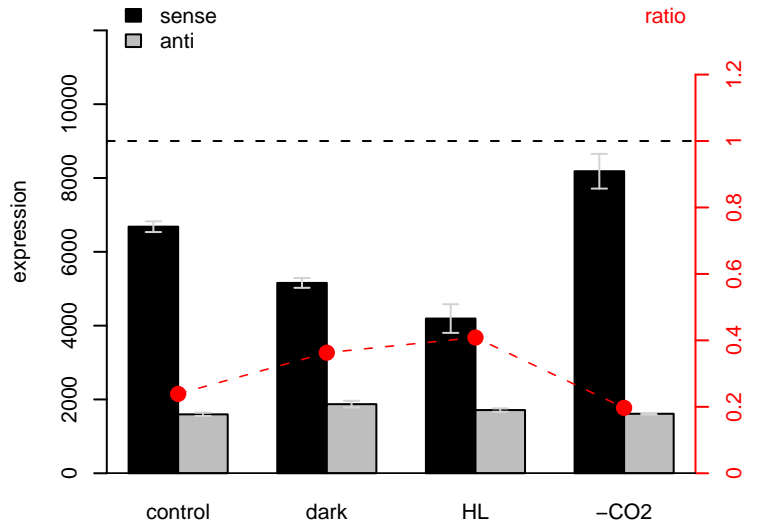
**genome\_4899**



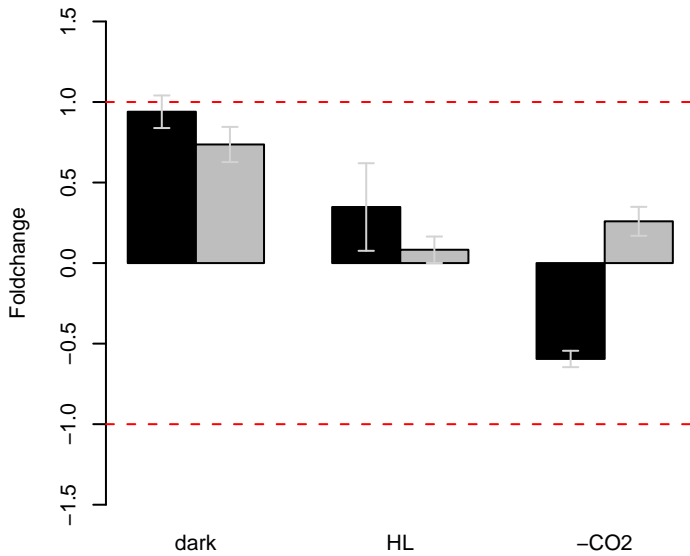
**slr0981**



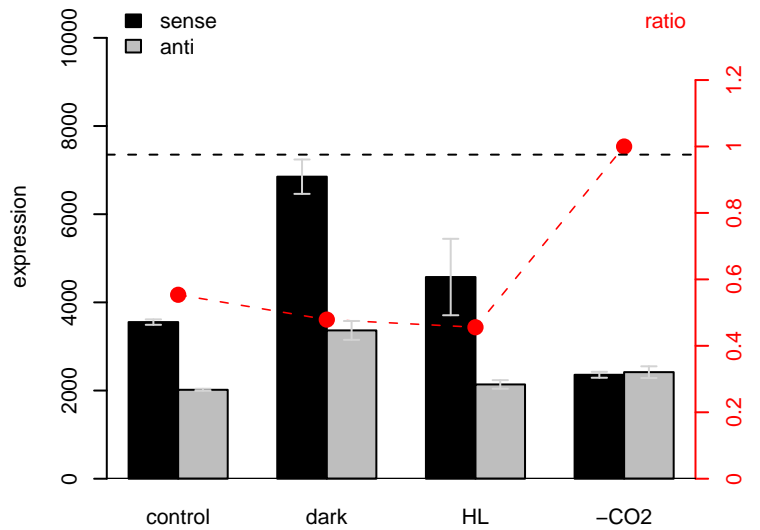
**genome\_490**



**htpG(sll0430)**

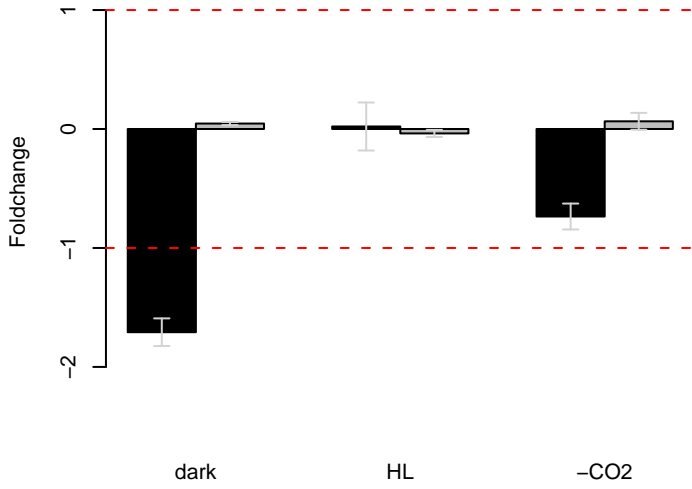


**genome\_4916**

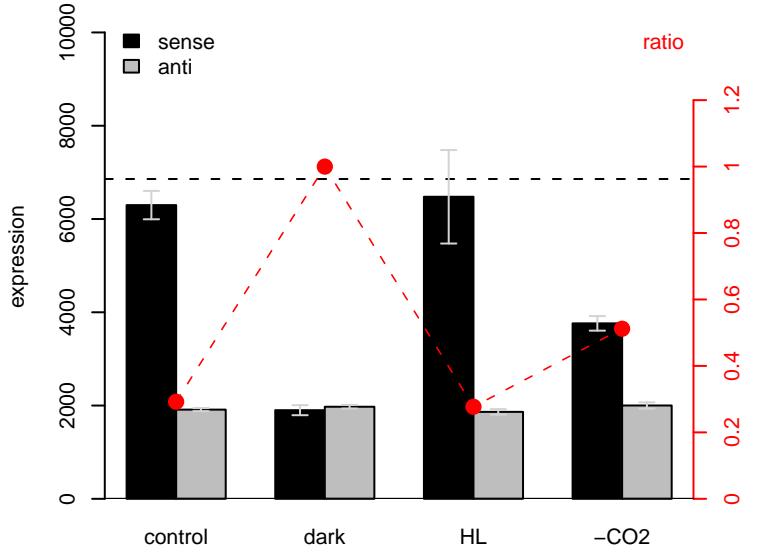




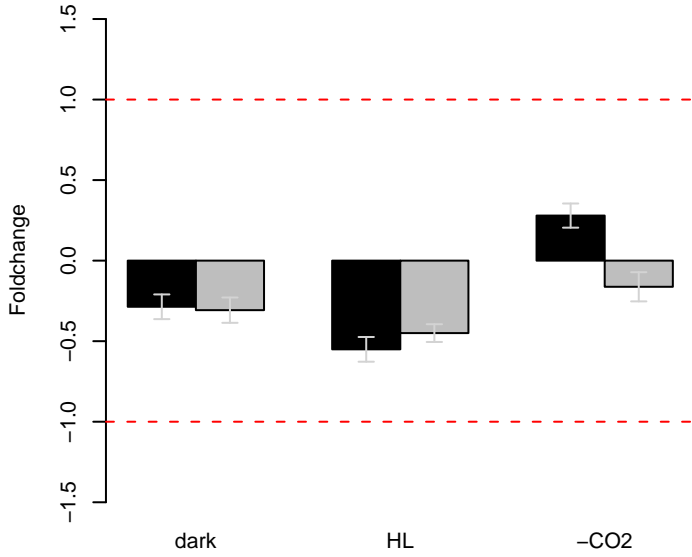
**glgC(slr1176)**



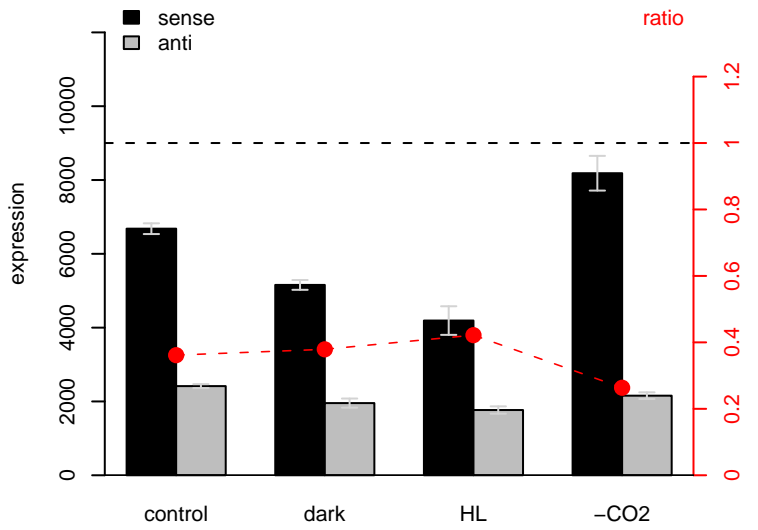
**genome\_4918**



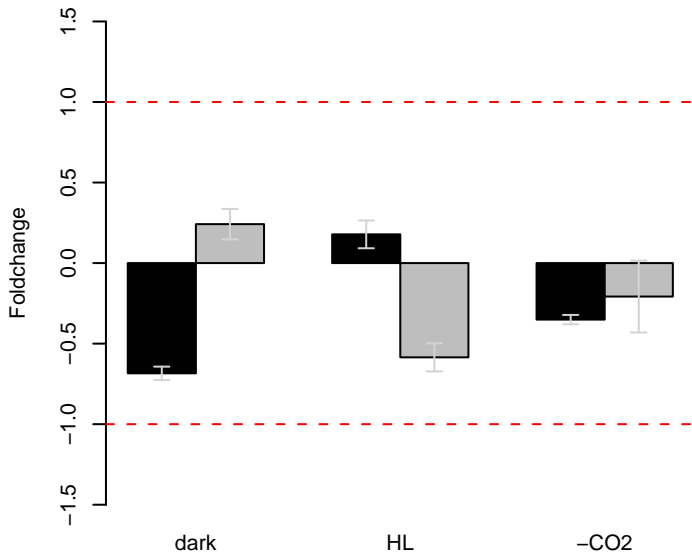
**slr0981**



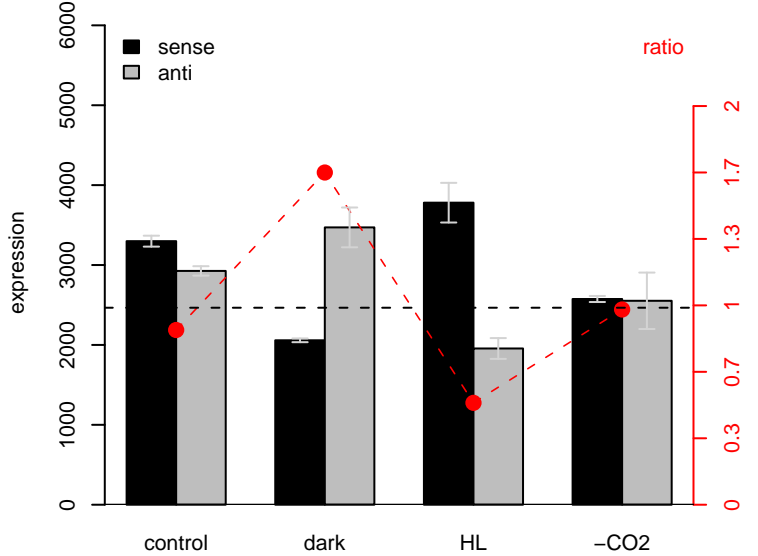
**genome\_490**



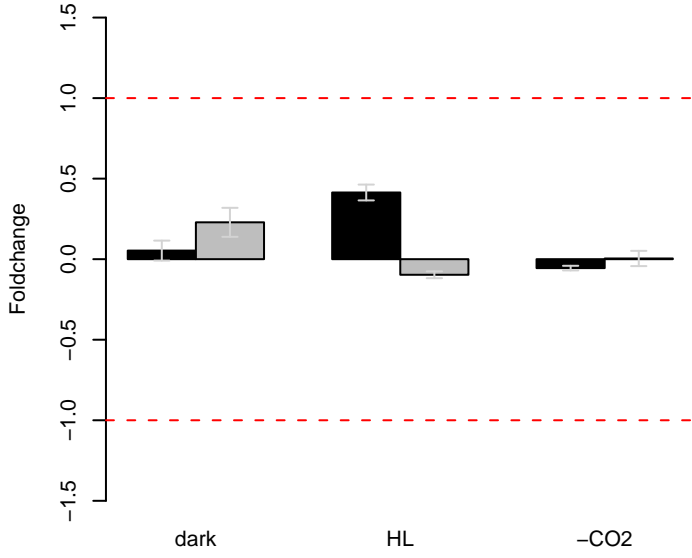
**slr1177**



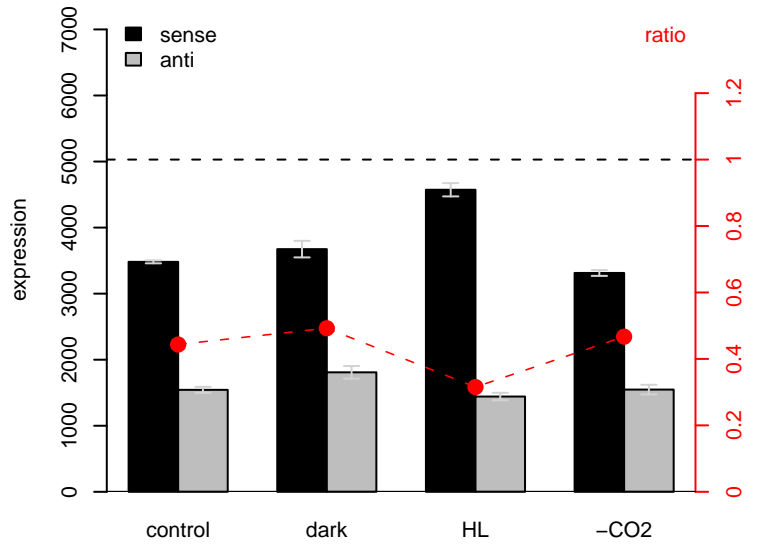
**genome\_4920**



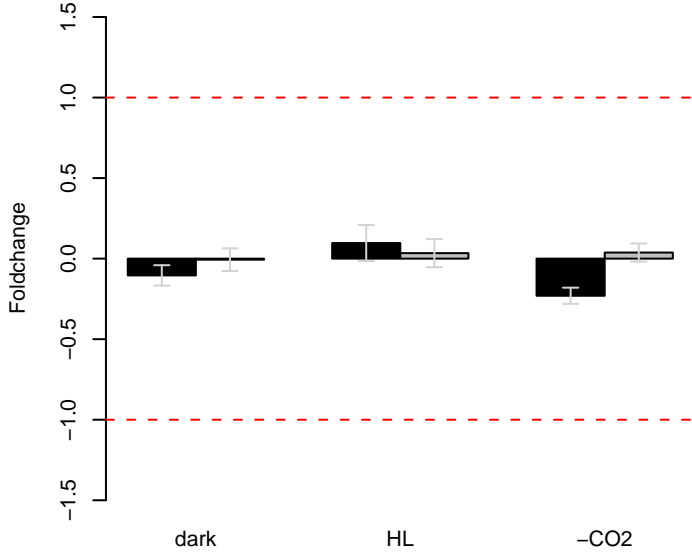
**prfA(sll1110)**



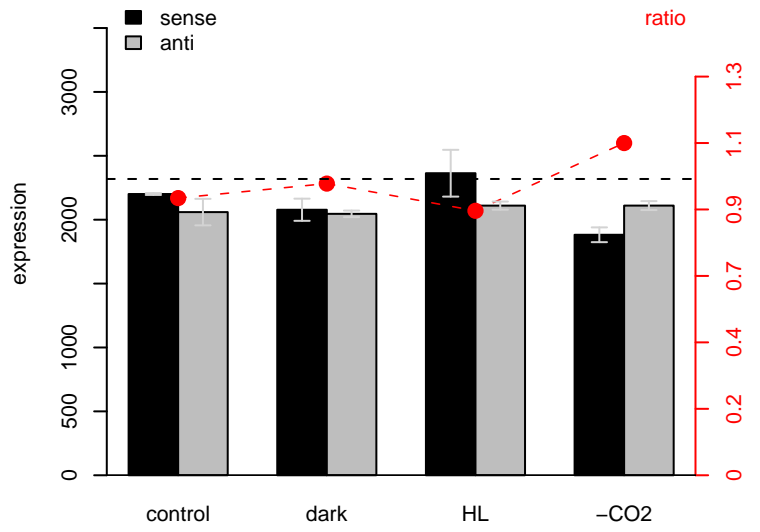
**genome\_4924**



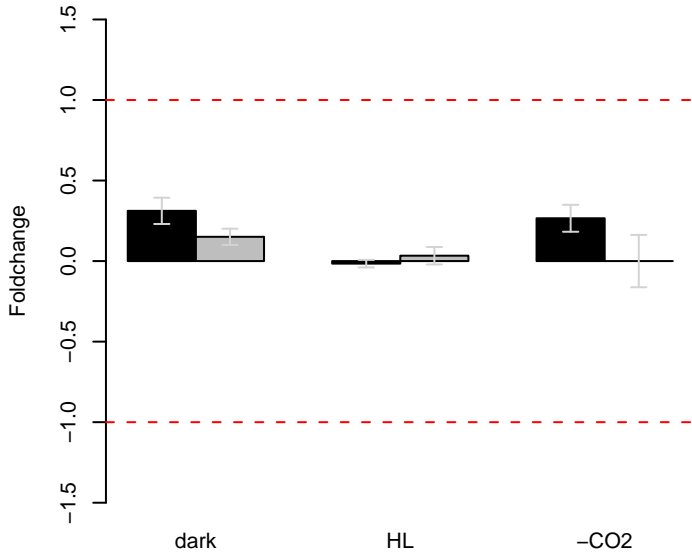
**surE(sll1108)**



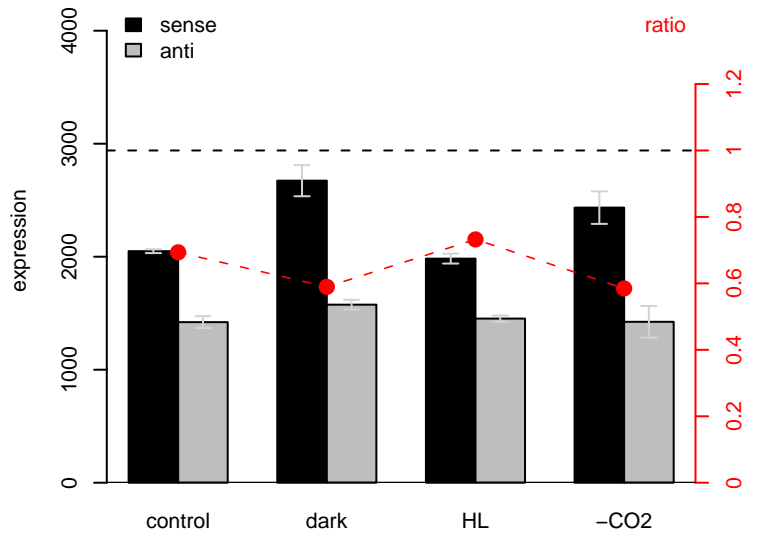
**genome\_4927**



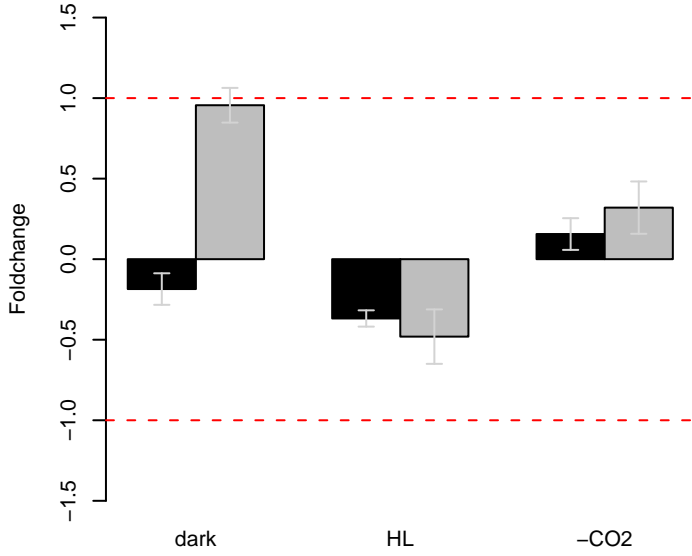
**petC(slr1185)**



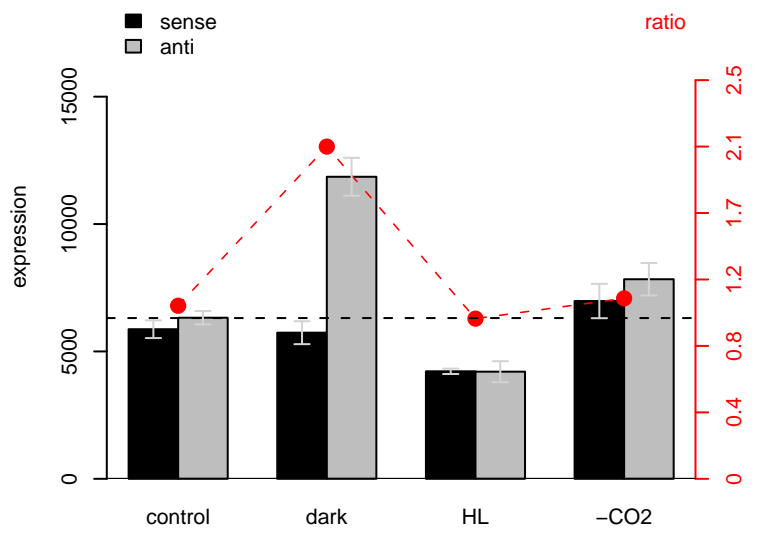
**genome\_4935**



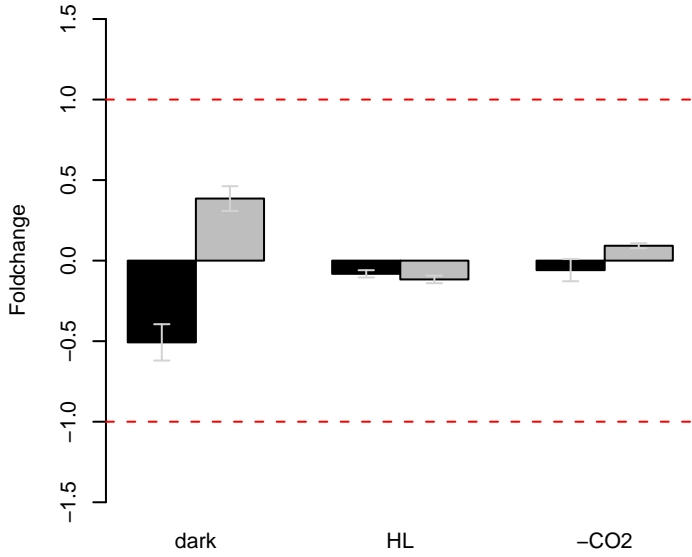
**slr1187**



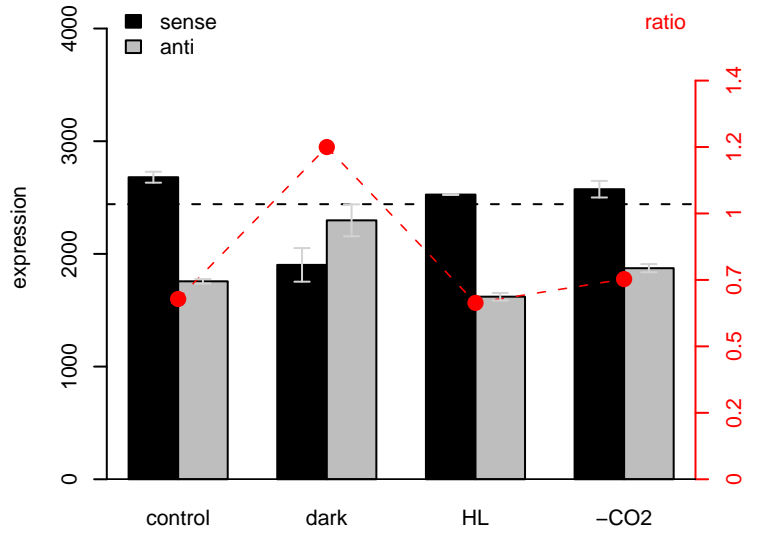
**genome\_4938**



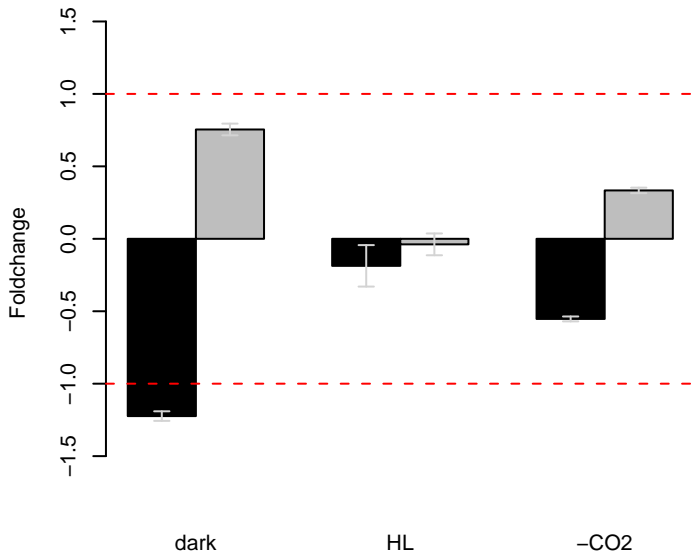
**rfbB(slr0982)**



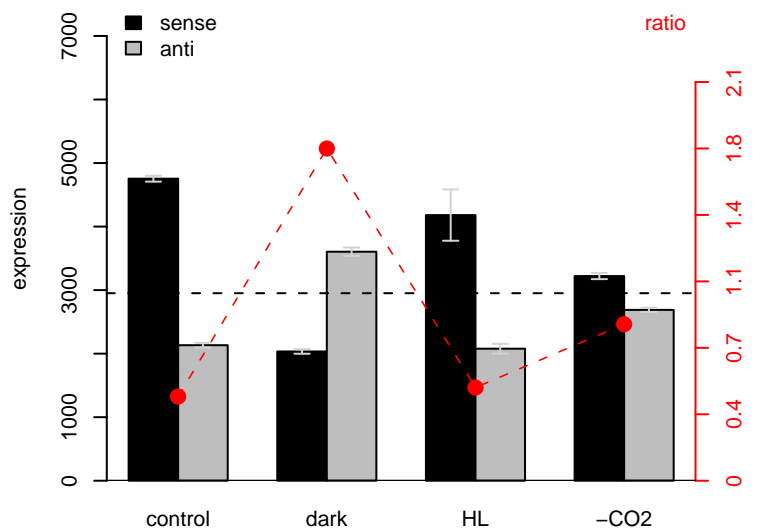
**genome\_493**



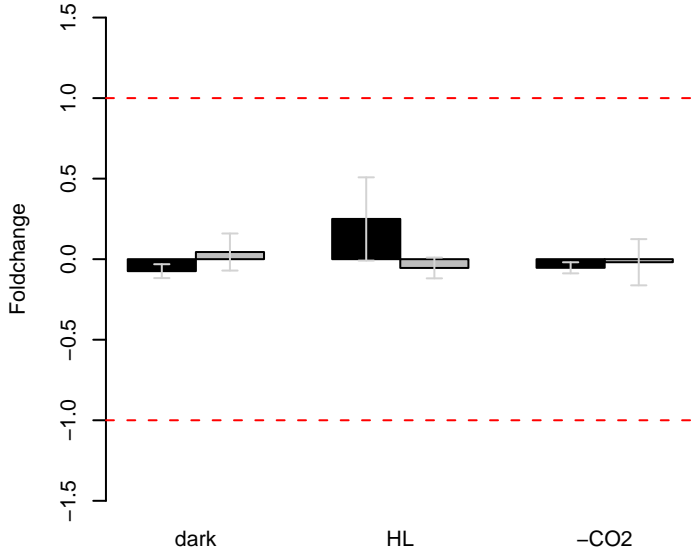
**argG(slr0585)**



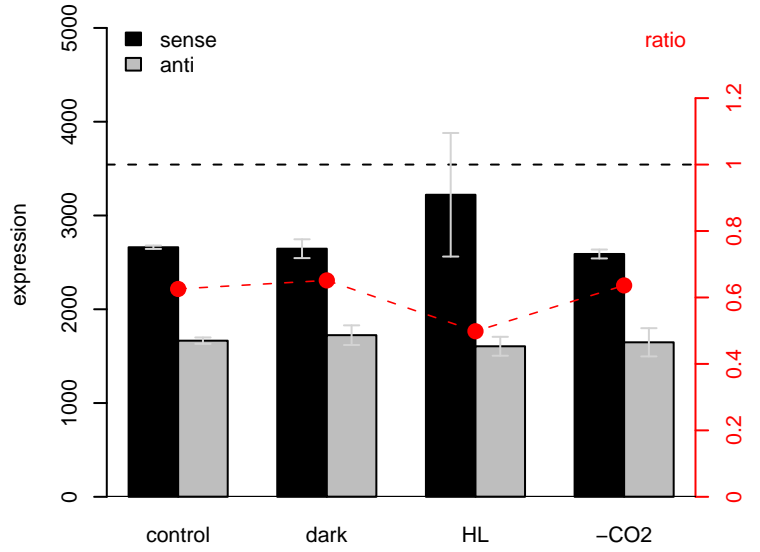
**genome\_4945**



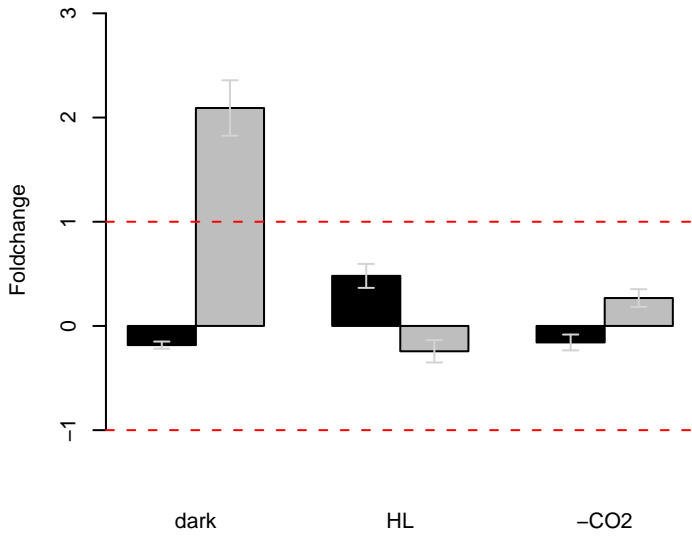
**slr0586**



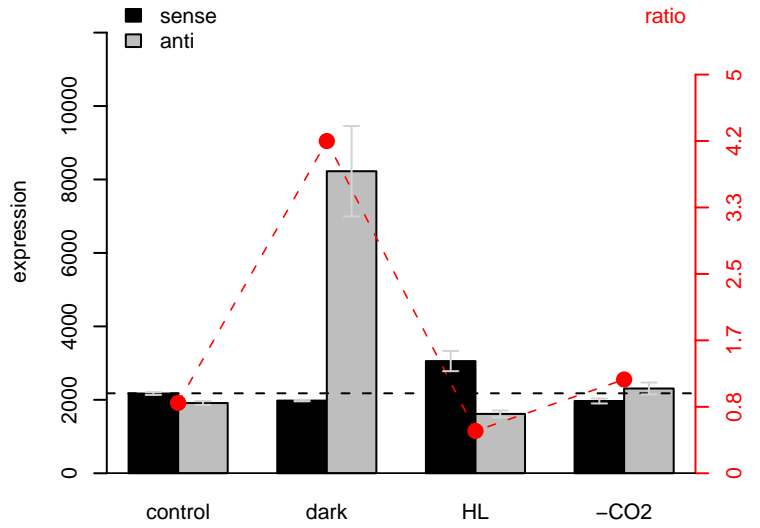
**genome\_4947**



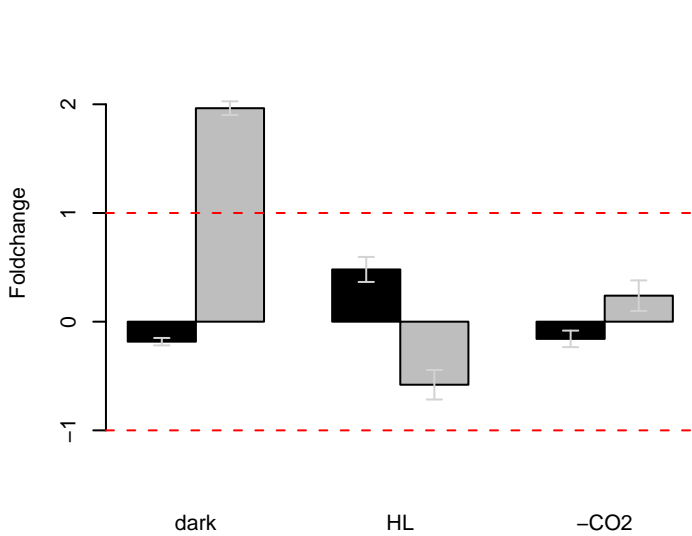
**purK(sll0578)**



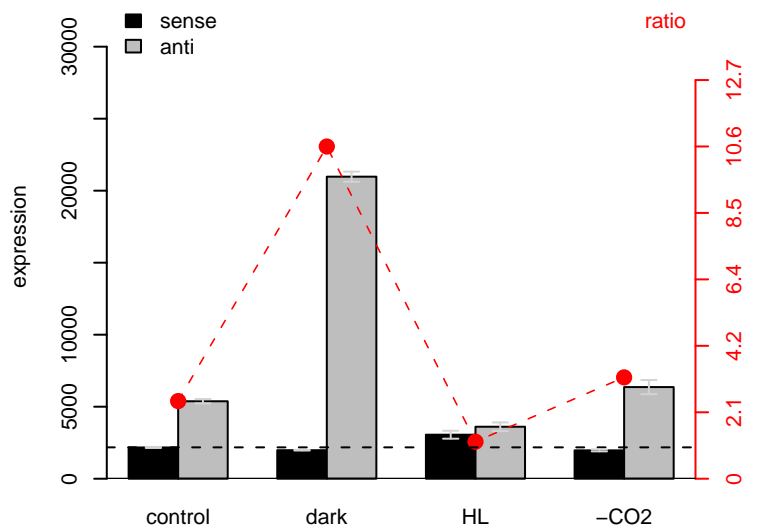
**genome\_4950**

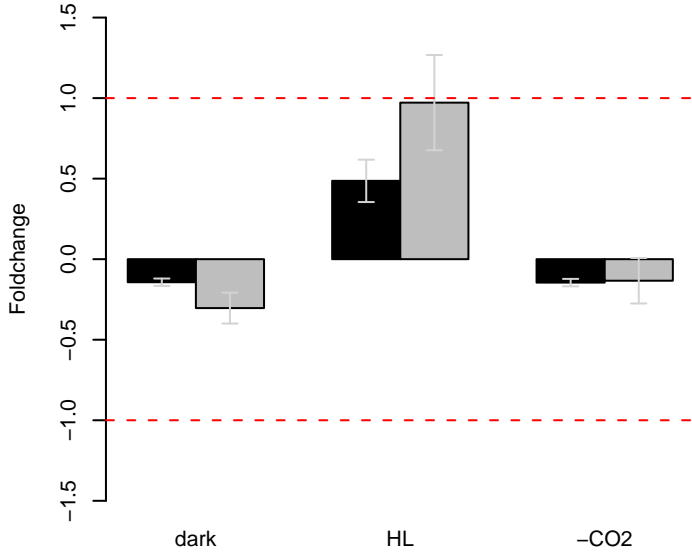
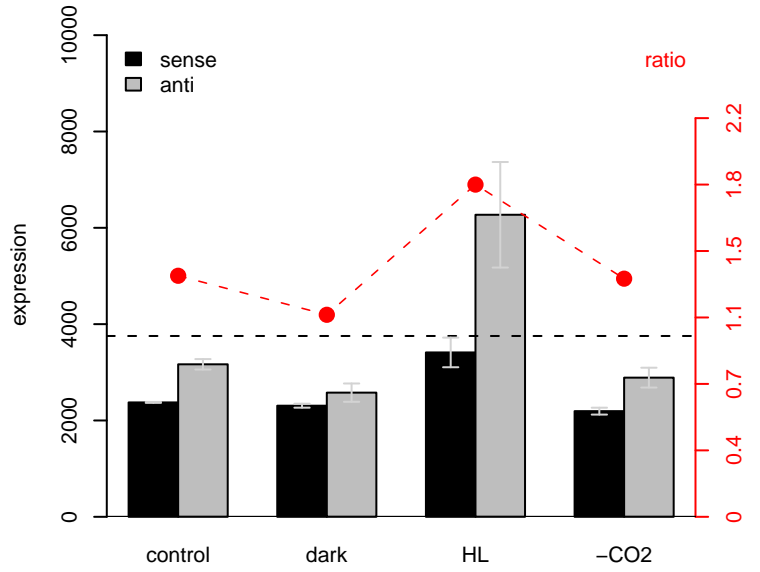
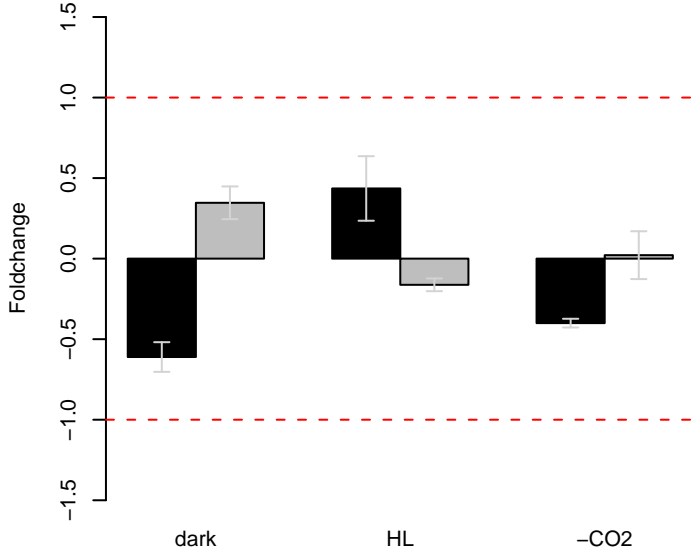
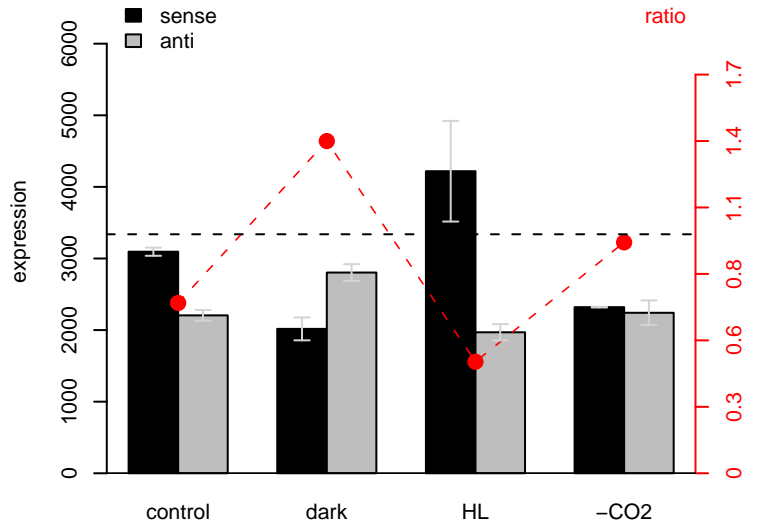
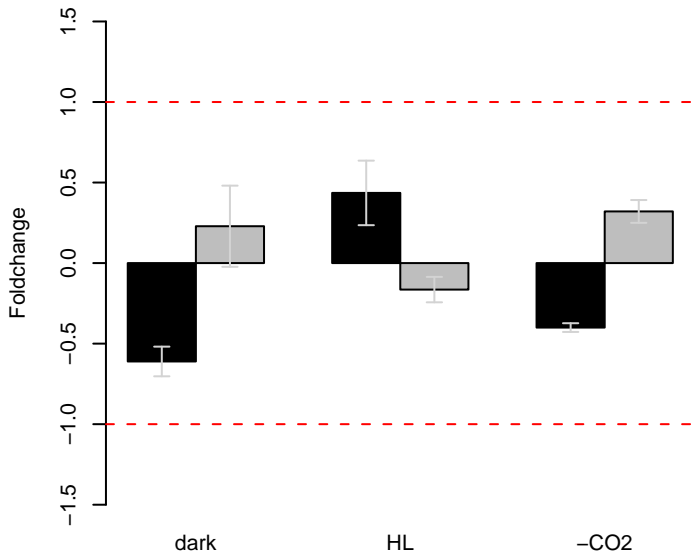
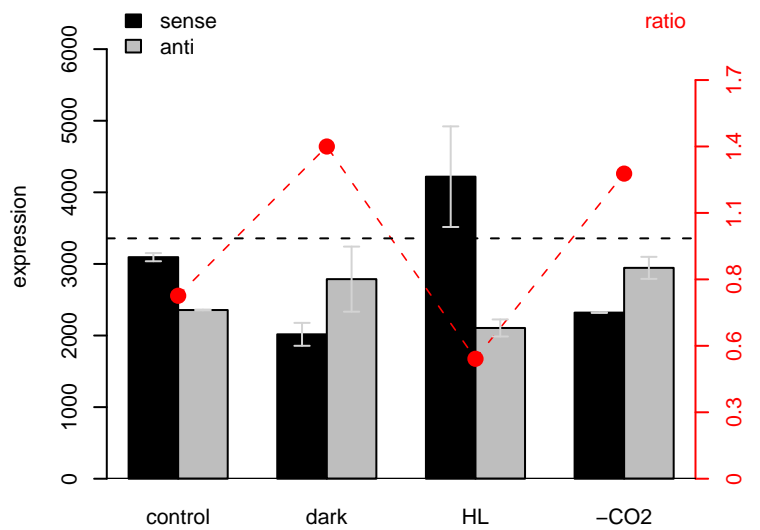


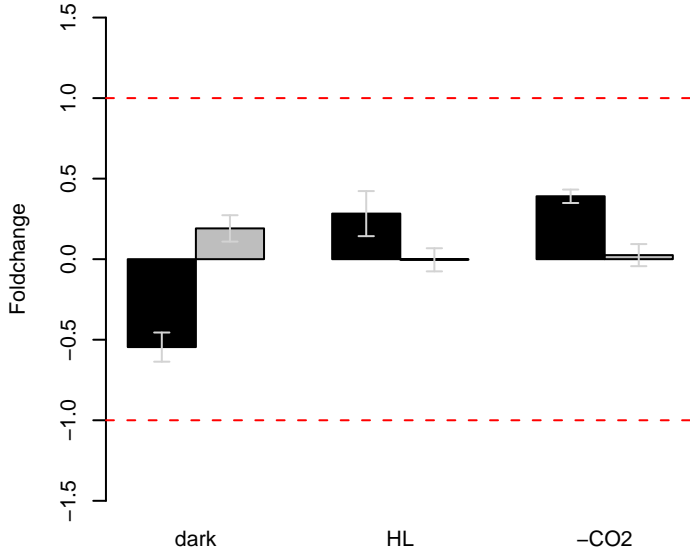
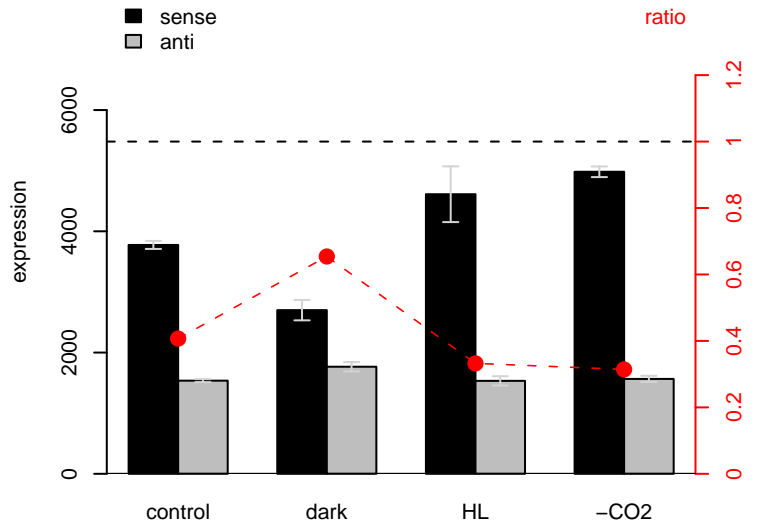
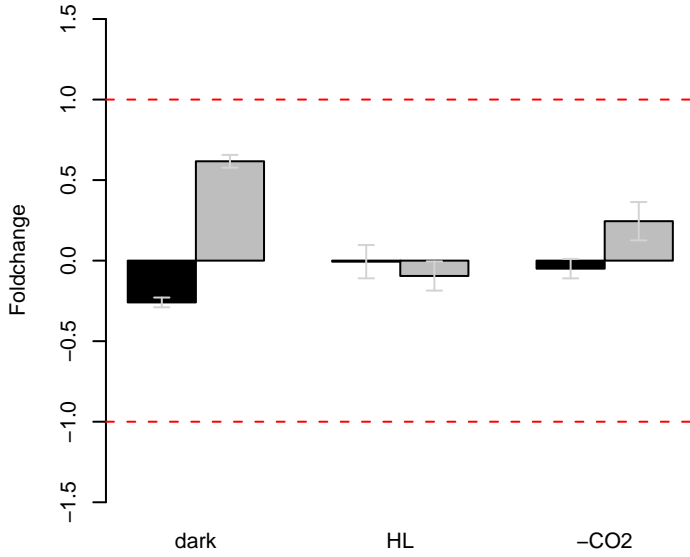
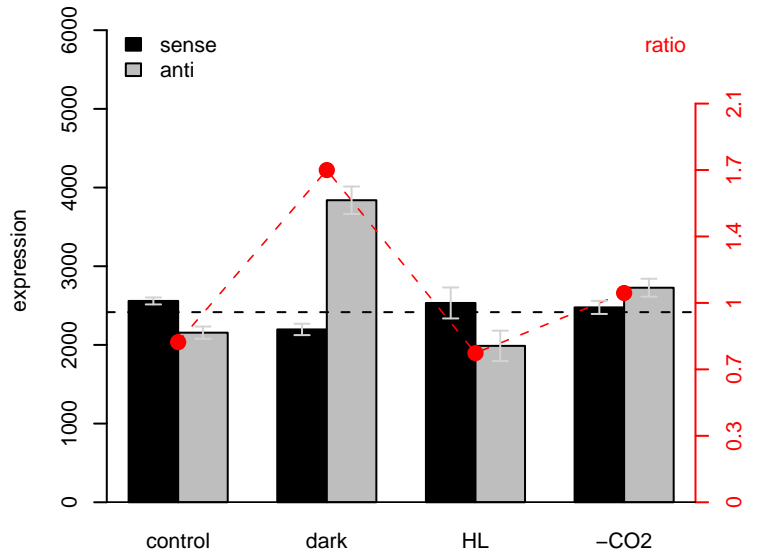
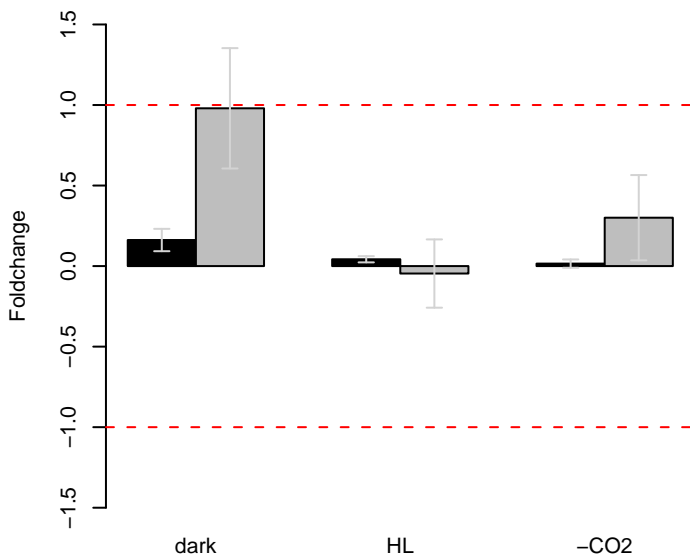
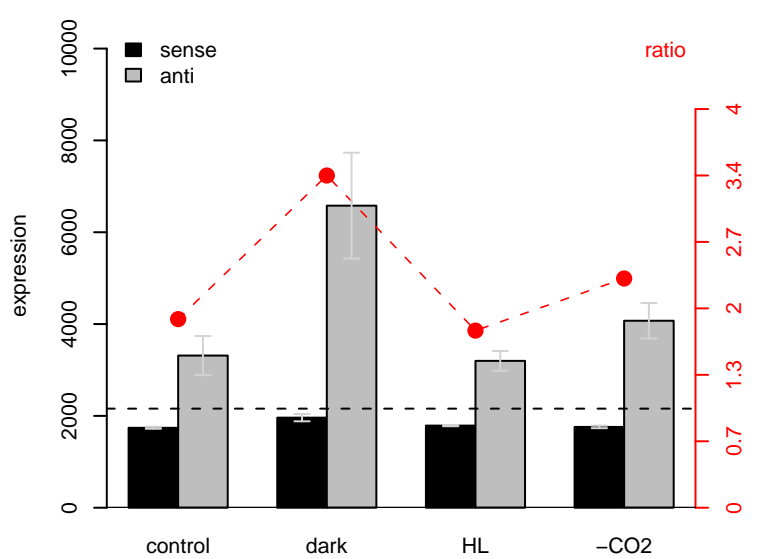
**purK(sll0578)**

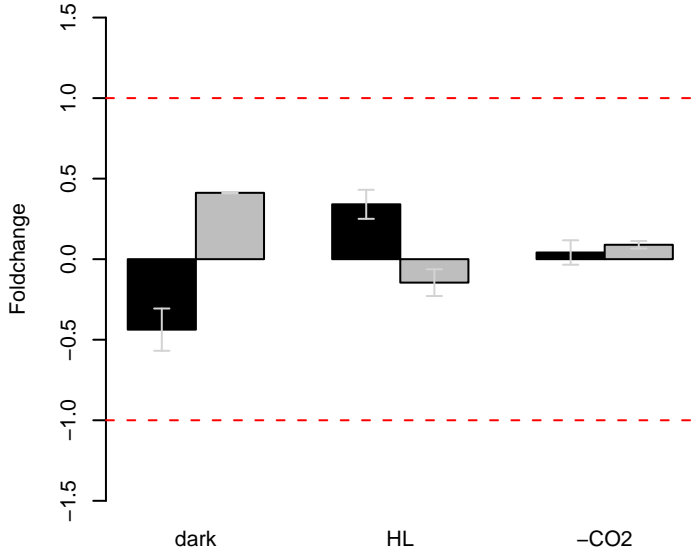
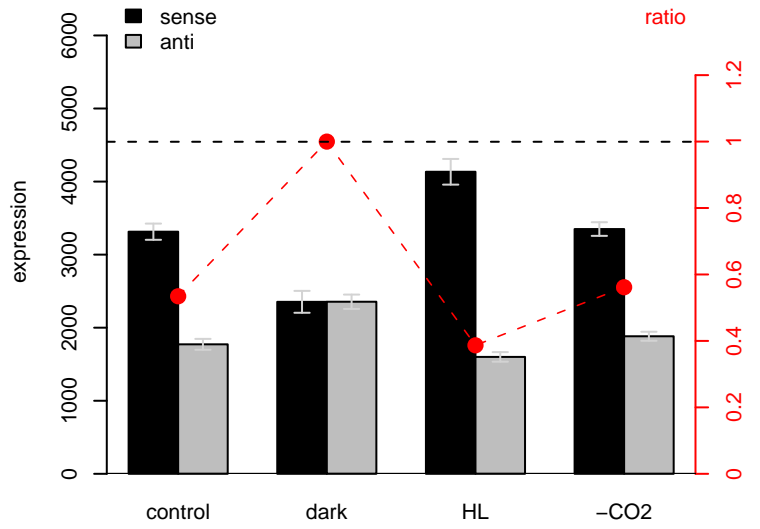
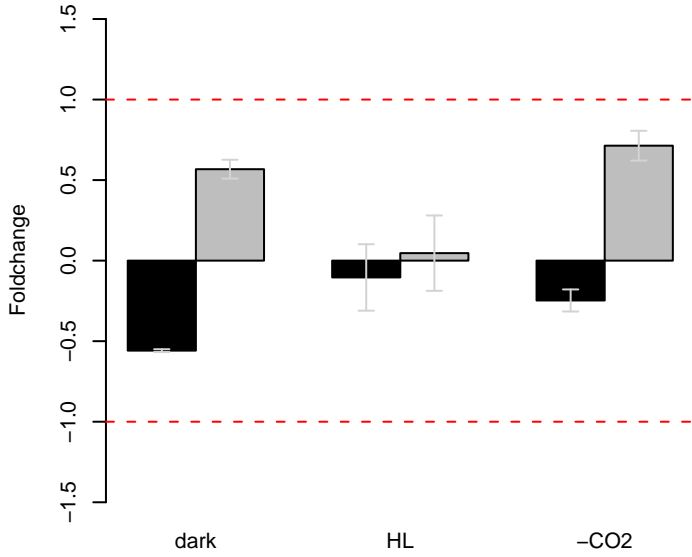
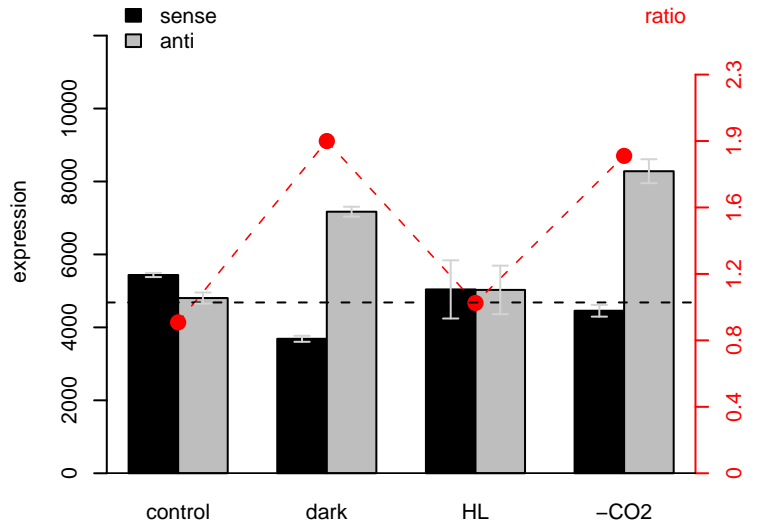
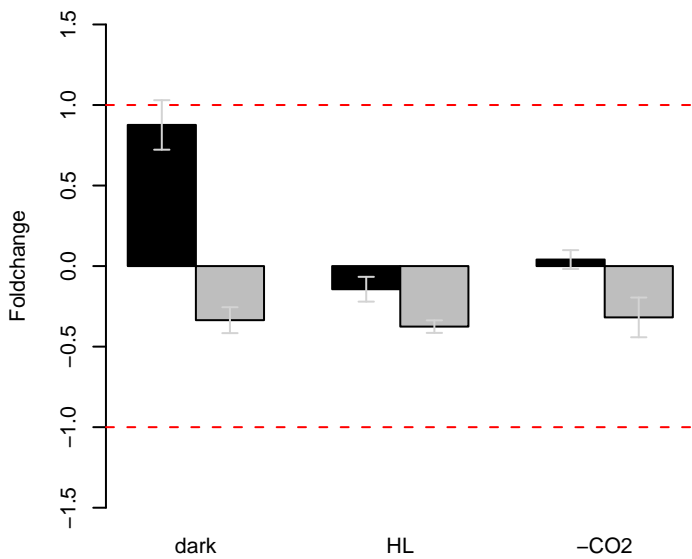
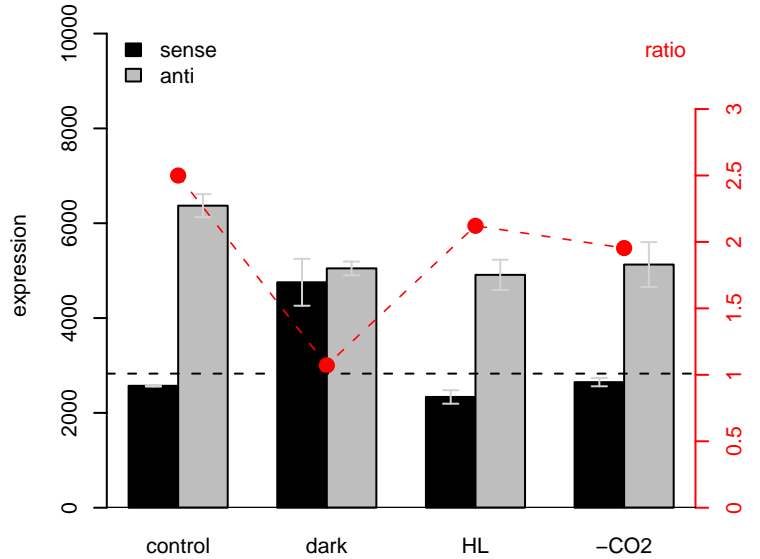


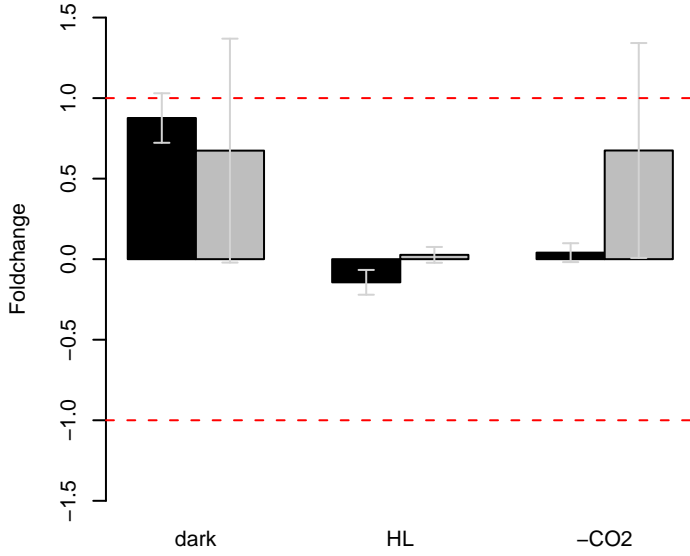
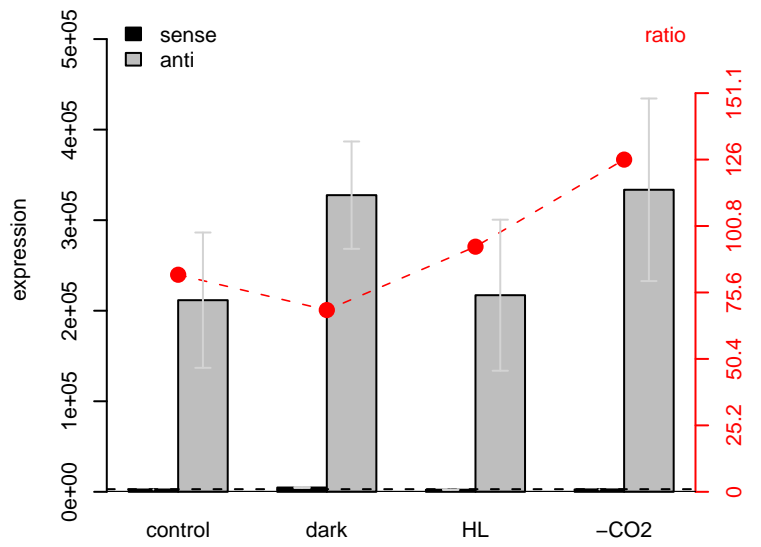
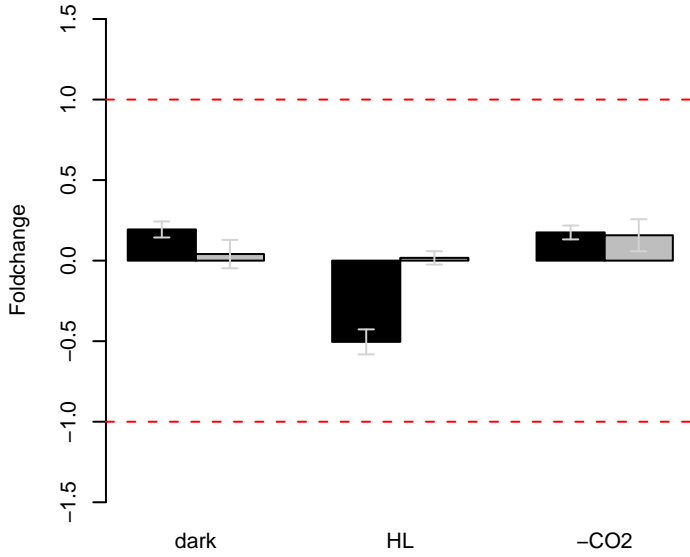
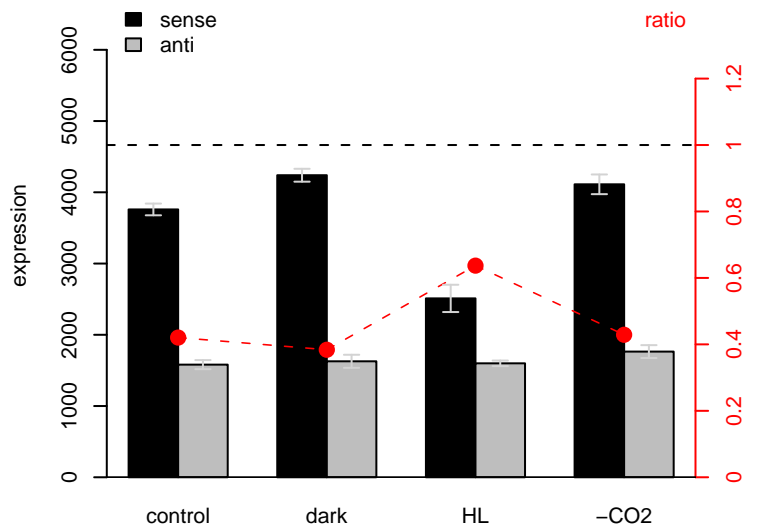
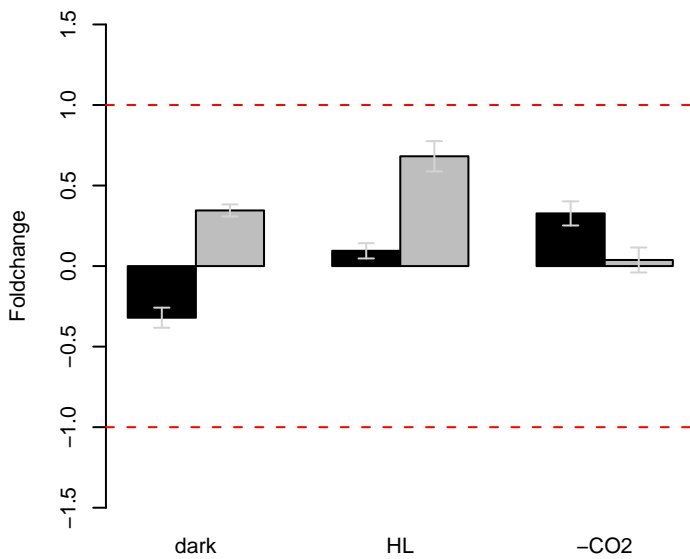
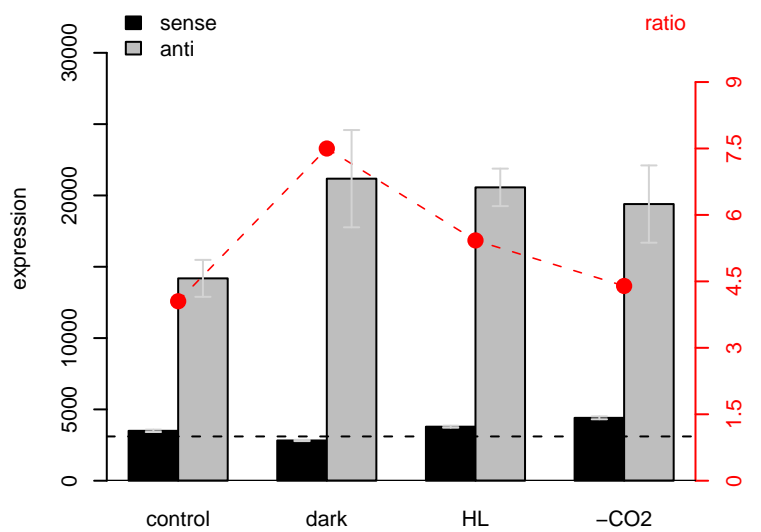
**genome\_4950**



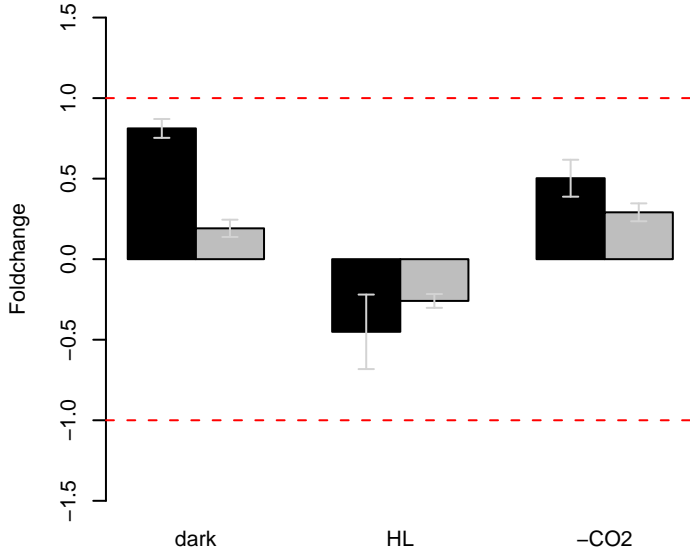
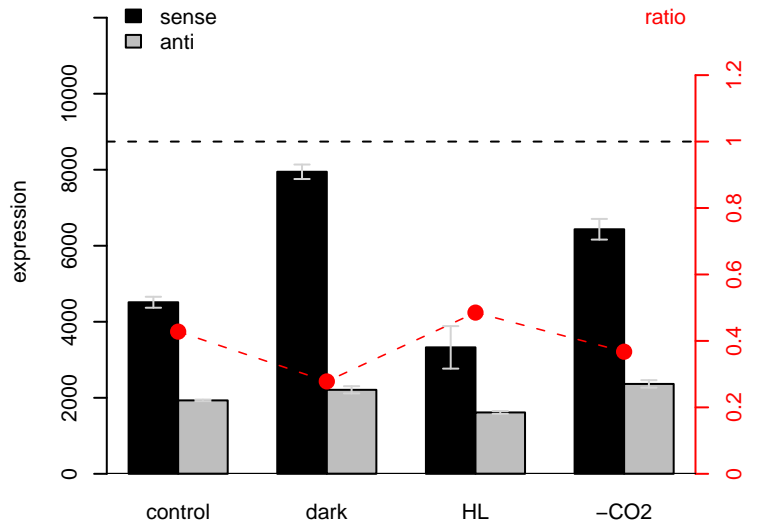
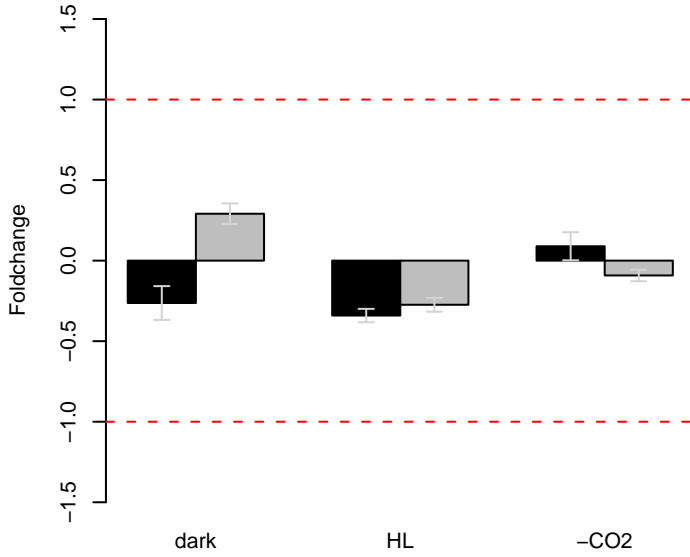
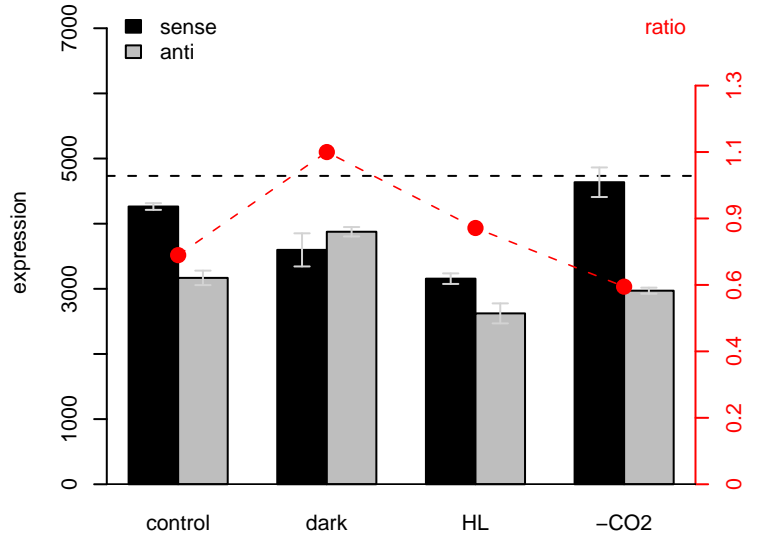
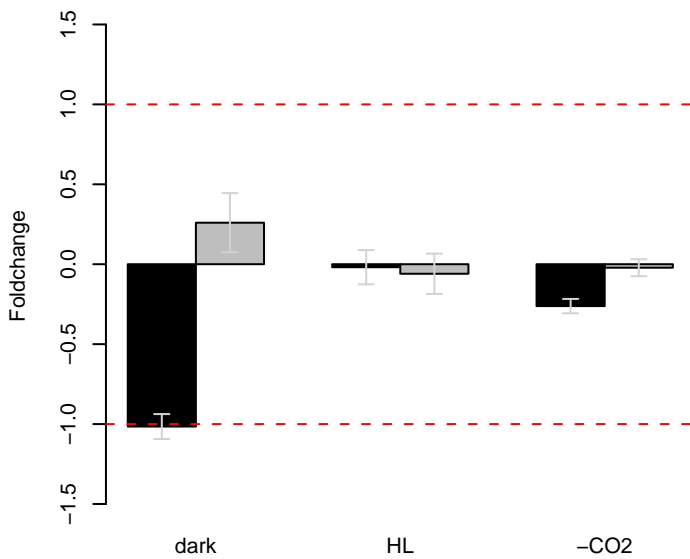
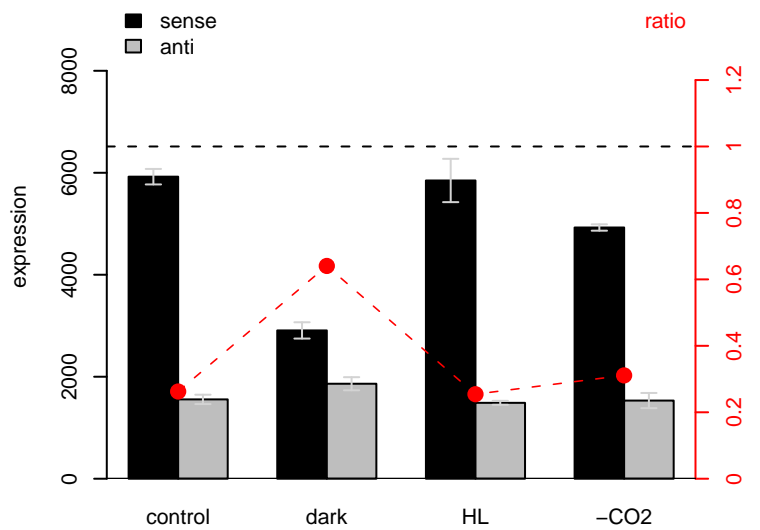
**slr0590****genome\_4956****rfa(sll0574)****genome\_4960****rfa(sll0574)****genome\_4960**

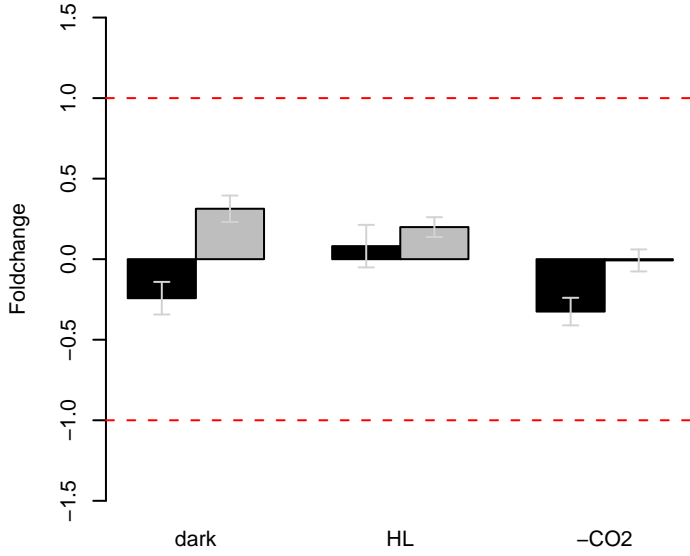
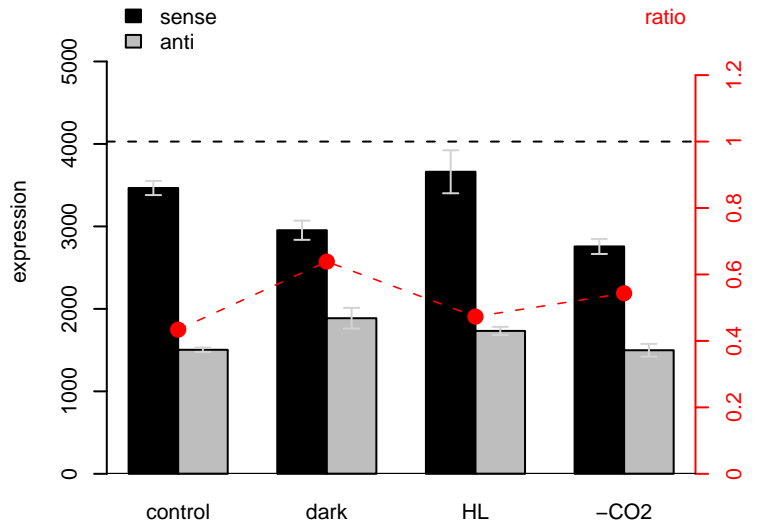
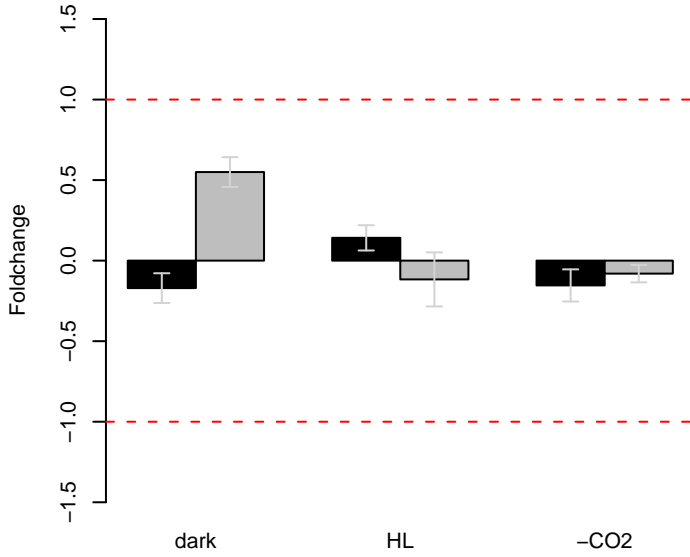
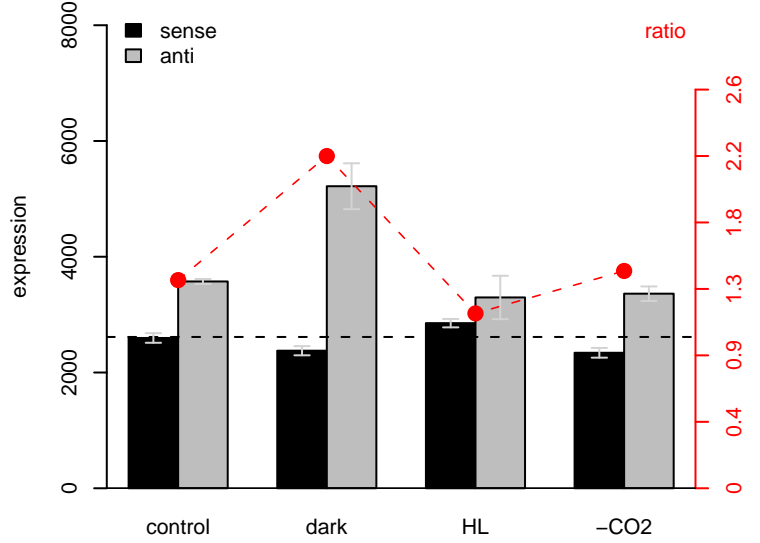
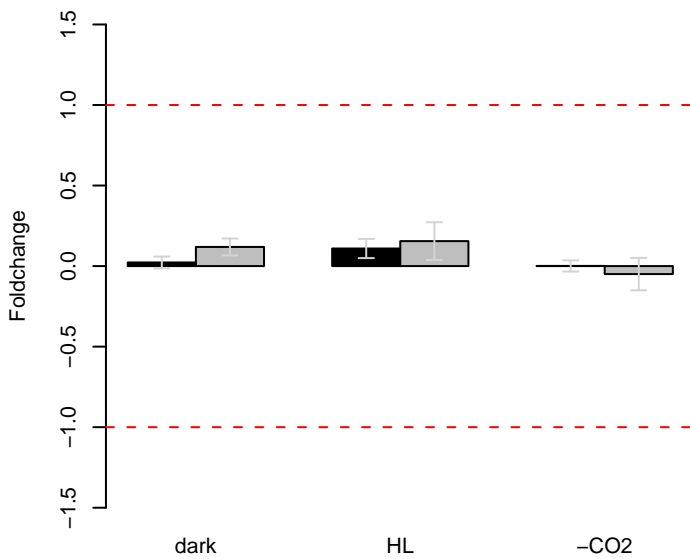
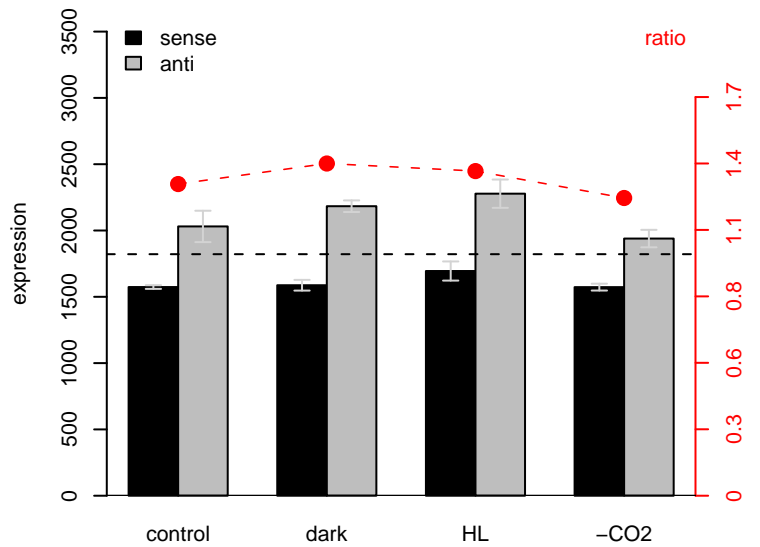
**slr0591****genome\_4963****rfbC(slr0985)****genome\_496****slr0593****genome\_4969**

**recA(sII0569)****genome\_4972****fur(sII0567)****genome\_4975****slr0599****genome\_4982**

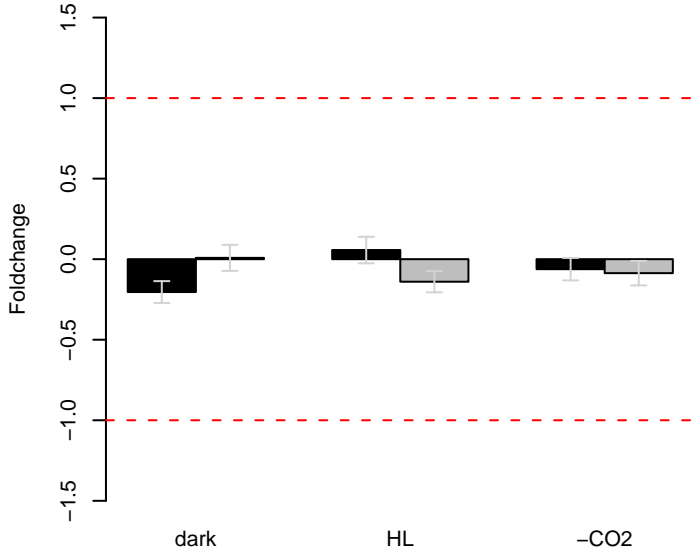
**slr0599****genome\_4982****slr0602****genome\_4988****lepA(slr0604)****genome\_4992**



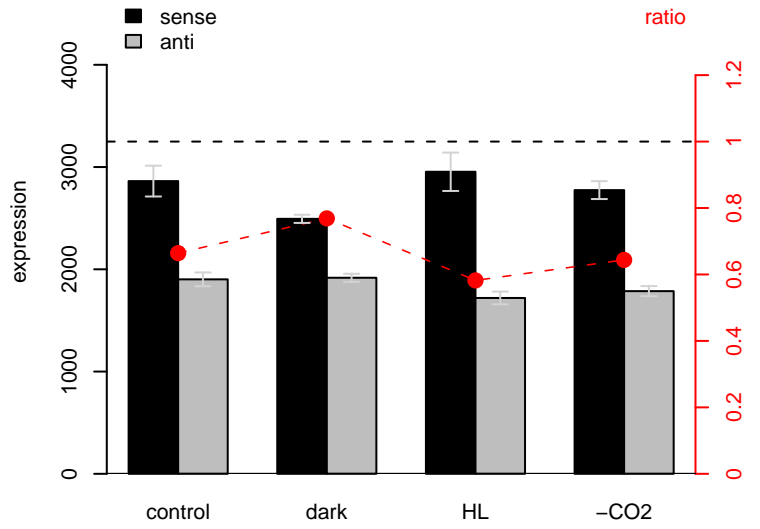
**slr1611****genome\_499****rfbE(slr1615)****genome\_504****slr1618****genome\_508**

**slr1066****genome\_516****galE(slr1067)****genome\_518****slr1494****genome\_51**

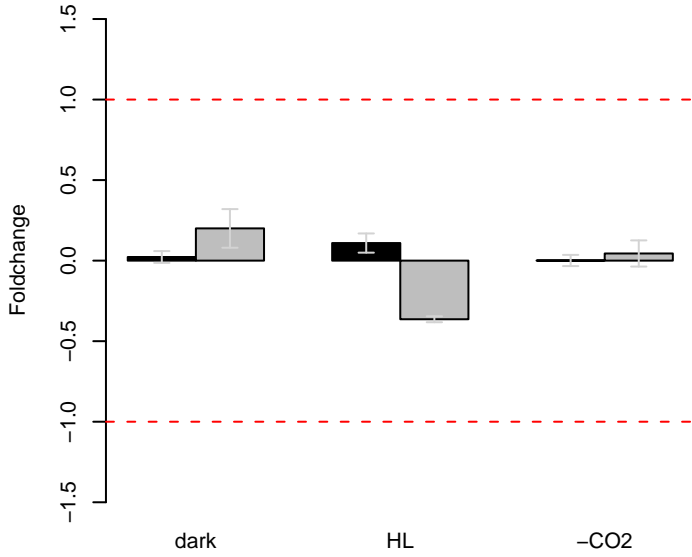
**yefA(slr1072)**



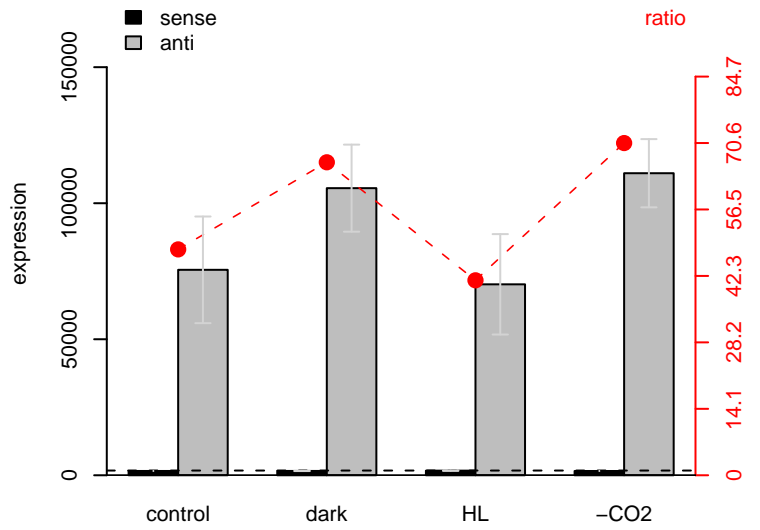
**genome\_524**



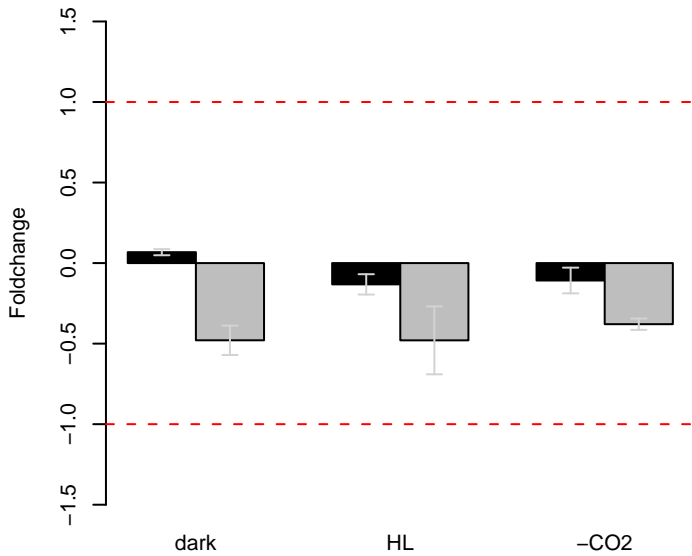
**slr1494**



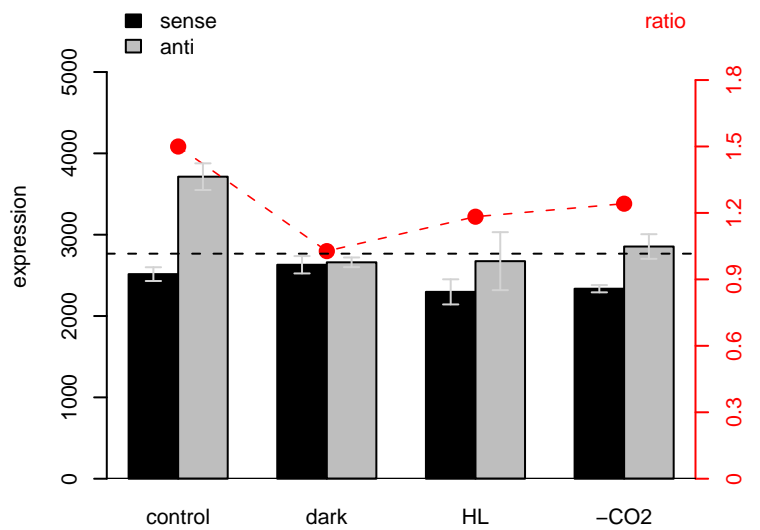
**genome\_51**

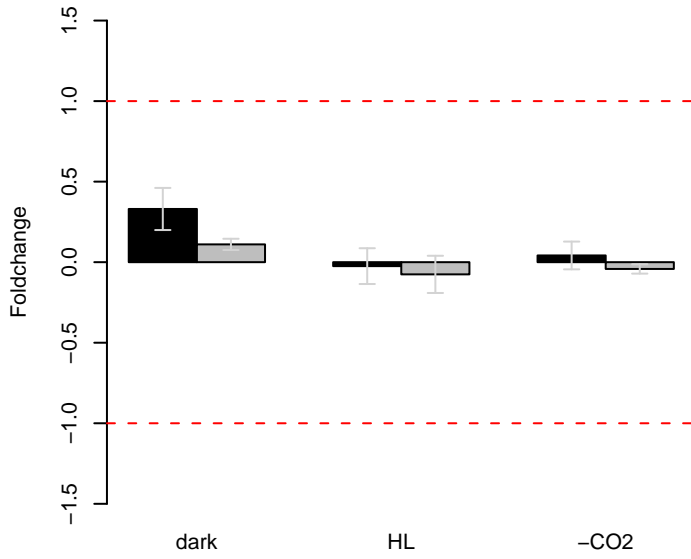
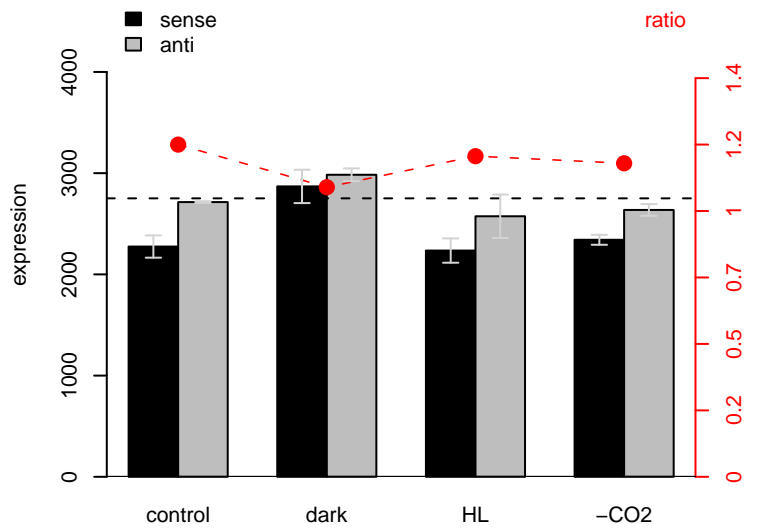
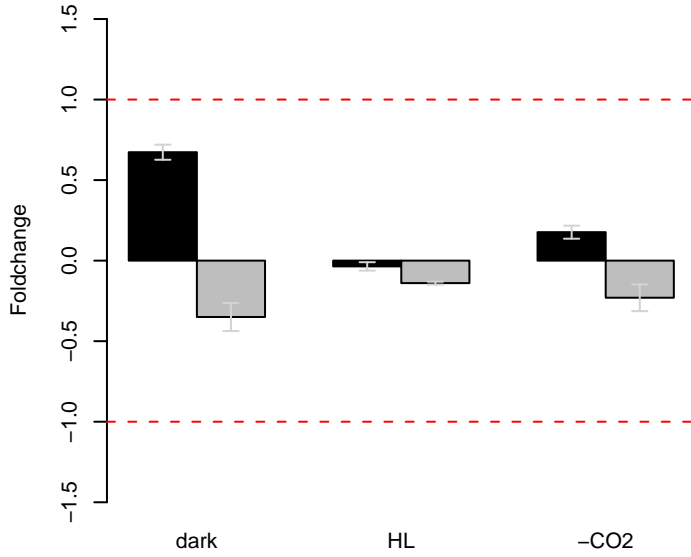
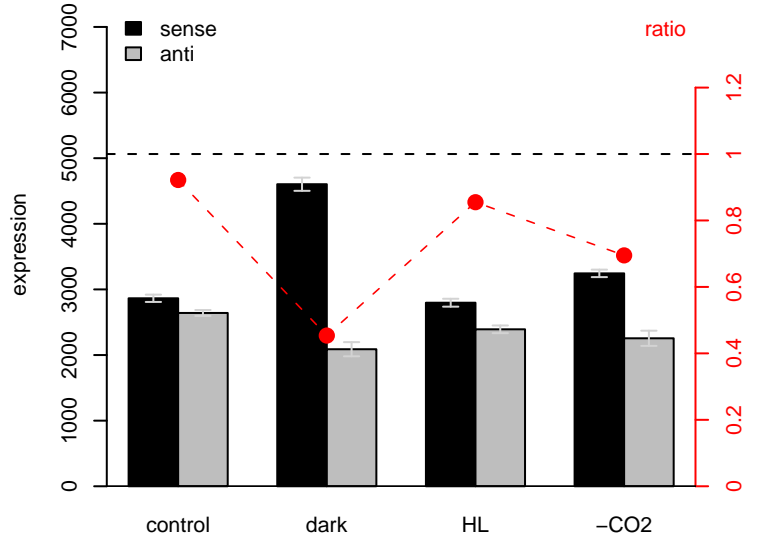
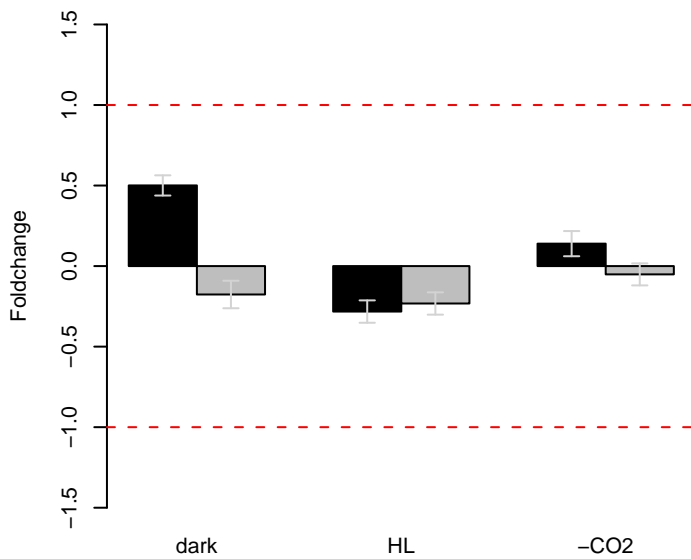
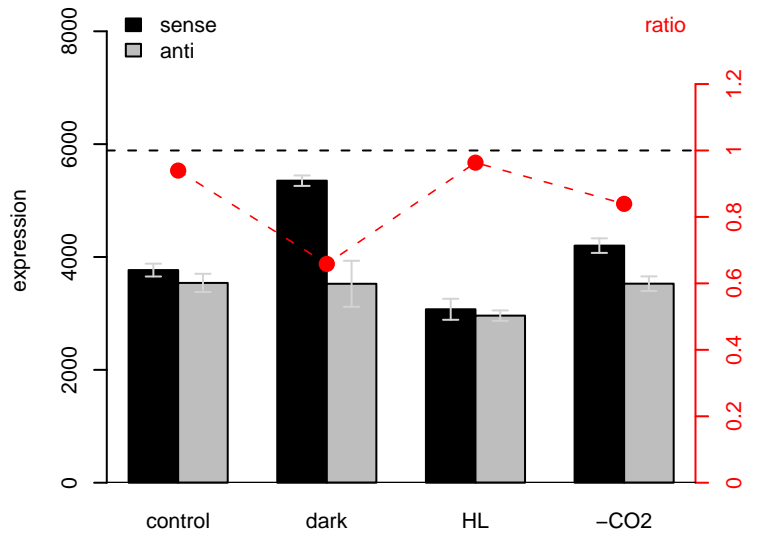


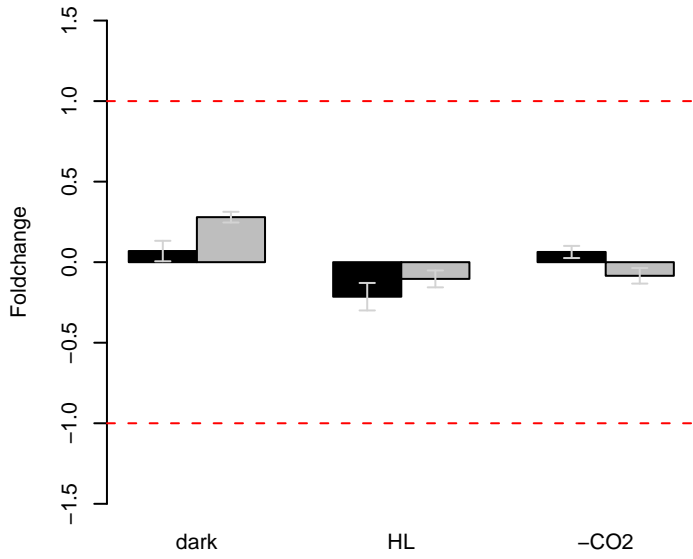
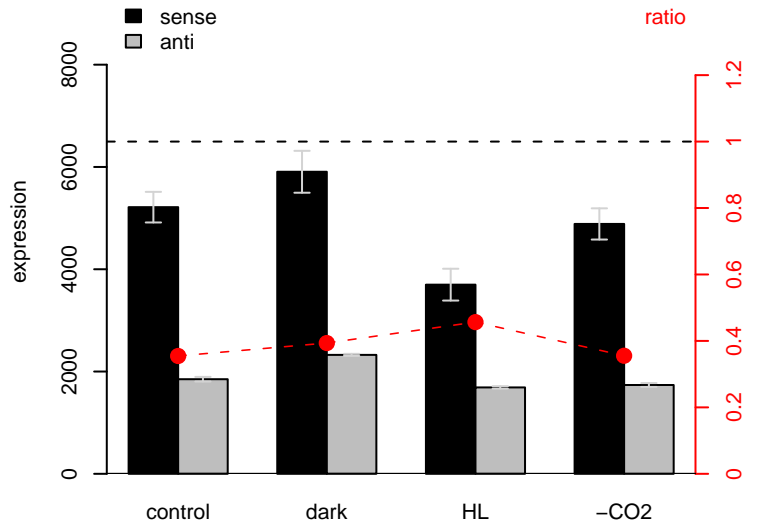
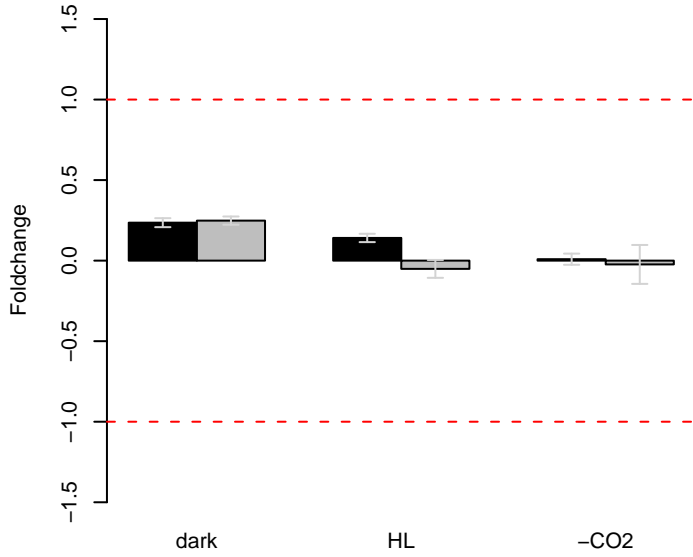
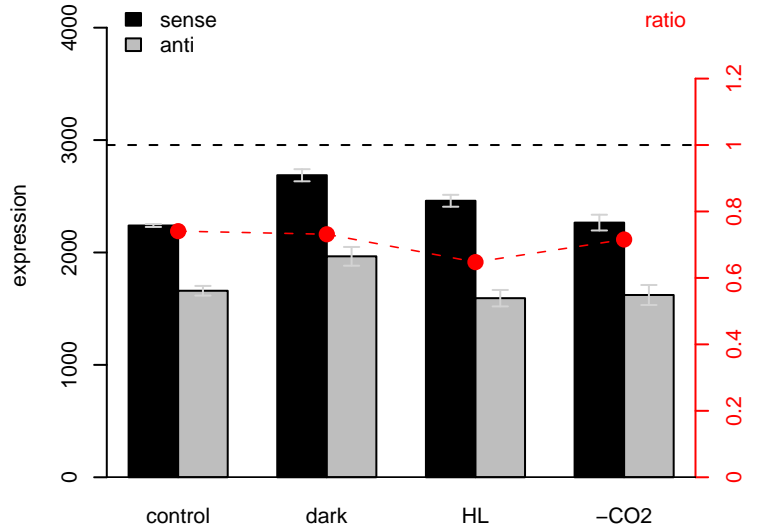
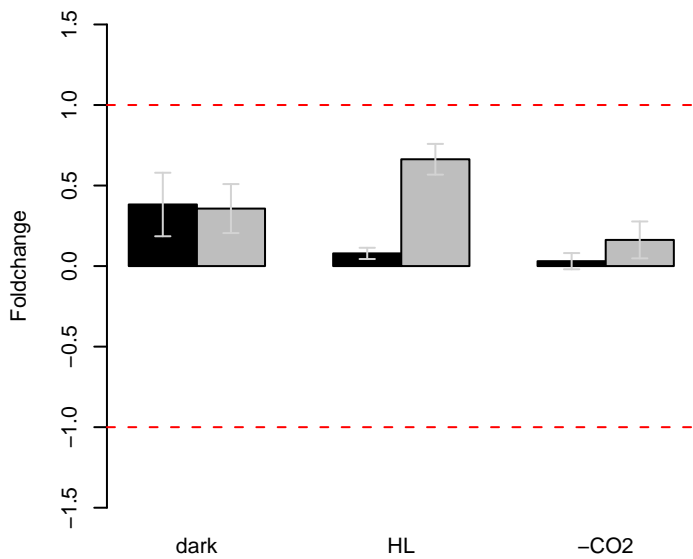
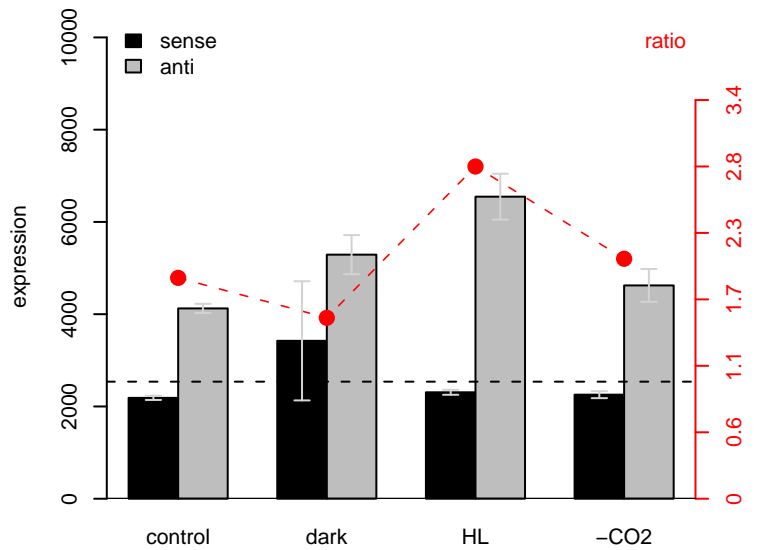
**slr1076**



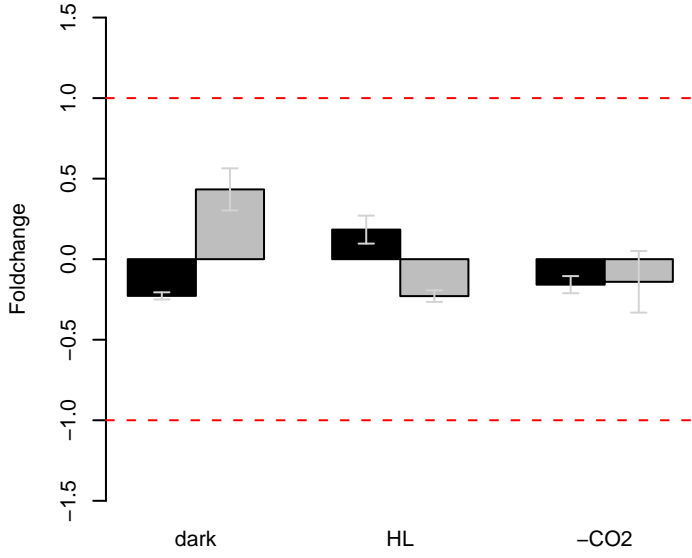
**genome\_530**



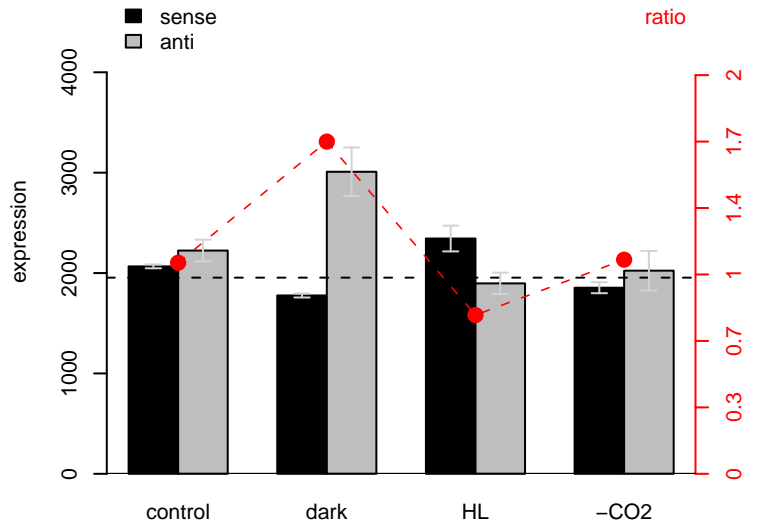
**slr1077****genome\_532****slr1081****genome\_539****slr1083****genome\_543**

**sll1025****genome\_547****sucC(sll1023)****genome\_551****HAGH1(sll1019)****genome\_558**

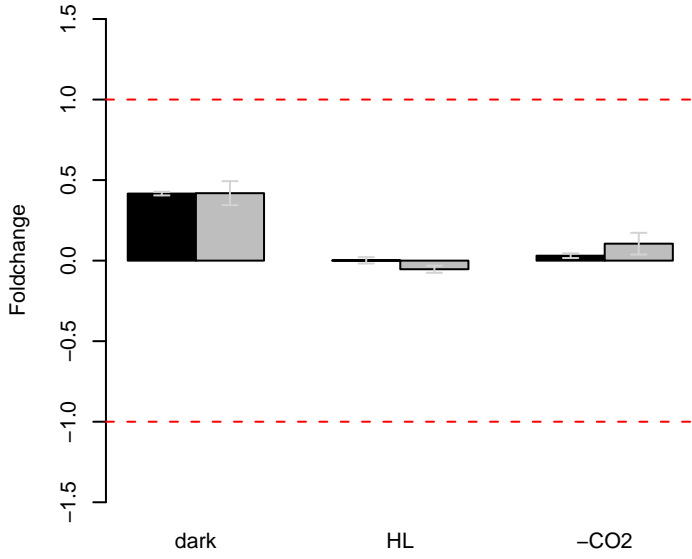
**pyrC(sll1018)**



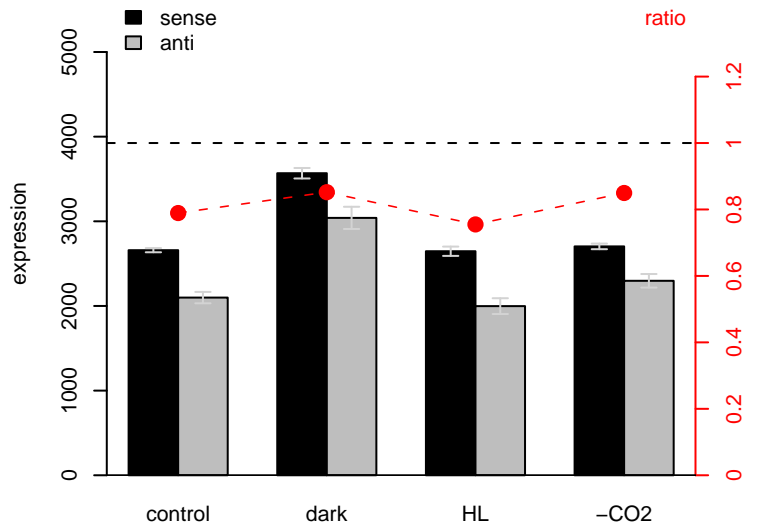
**genome\_560**



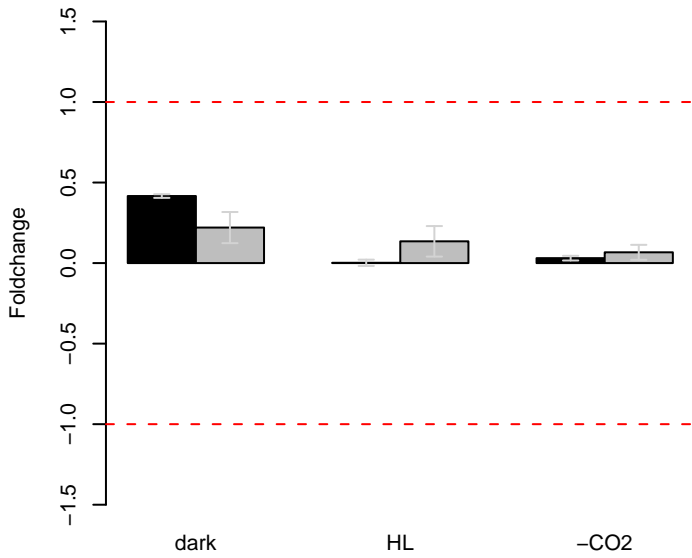
**slr1400**



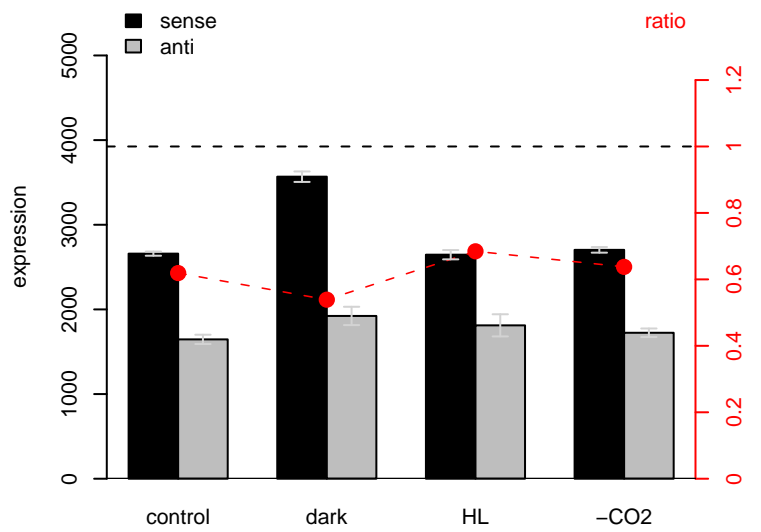
**genome\_564**



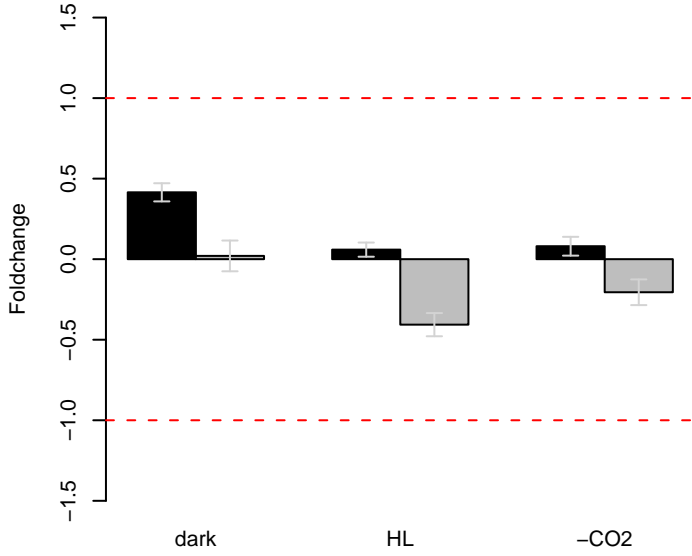
**slr1400**



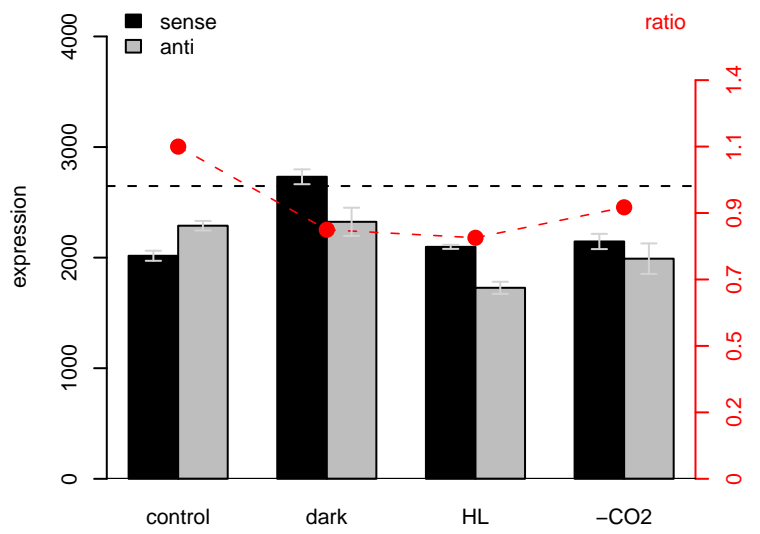
**genome\_564**



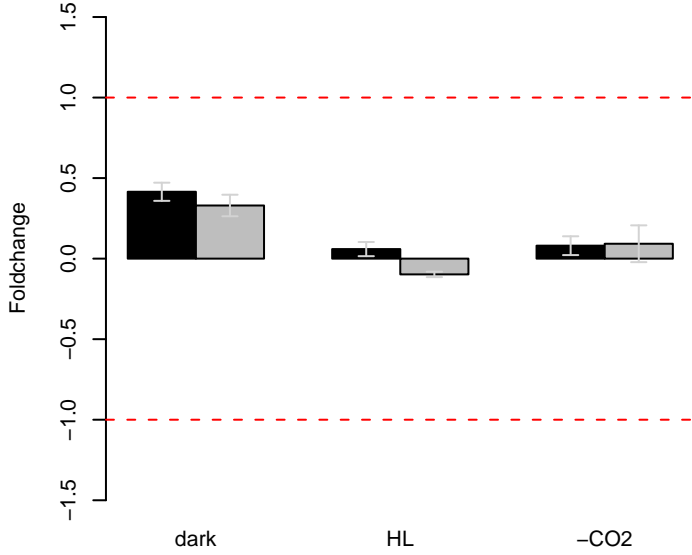
**nucH(sil0656)**



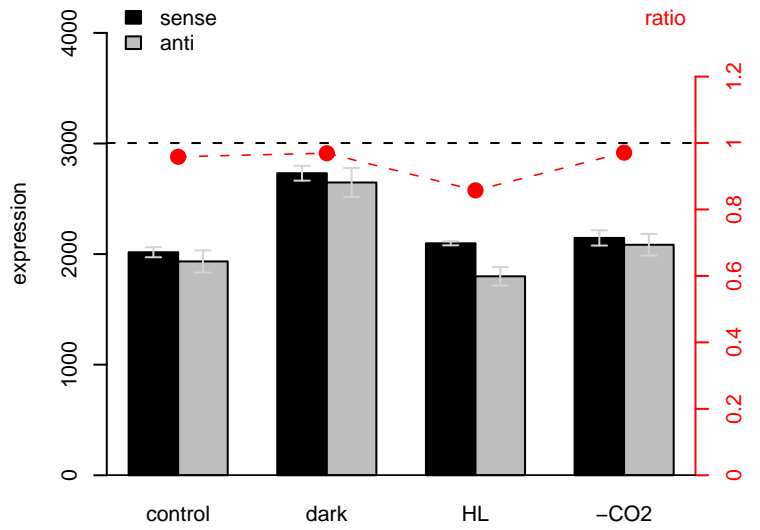
**genome\_568**



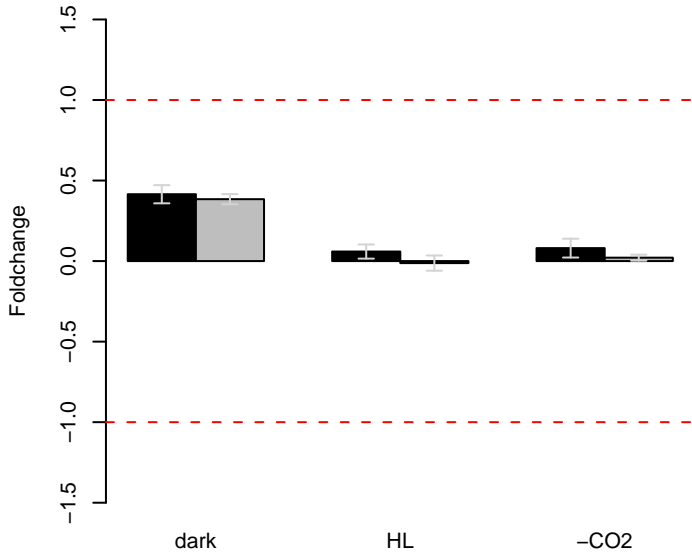
**nucH(sil0656)**



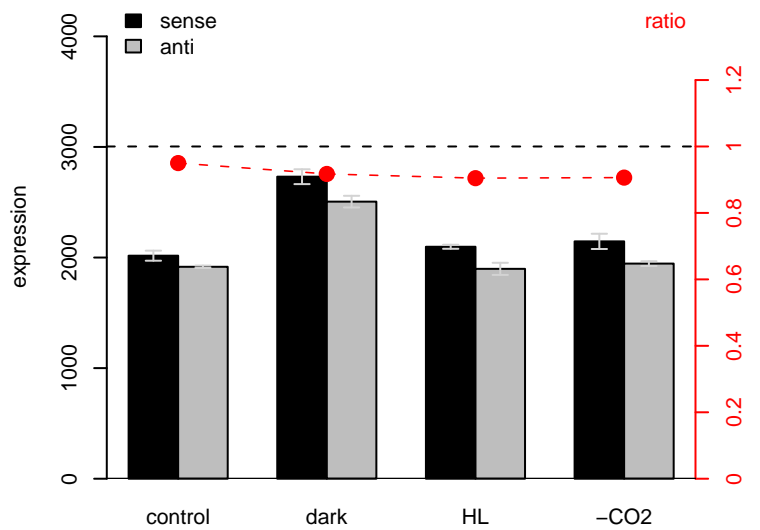
**genome\_568**

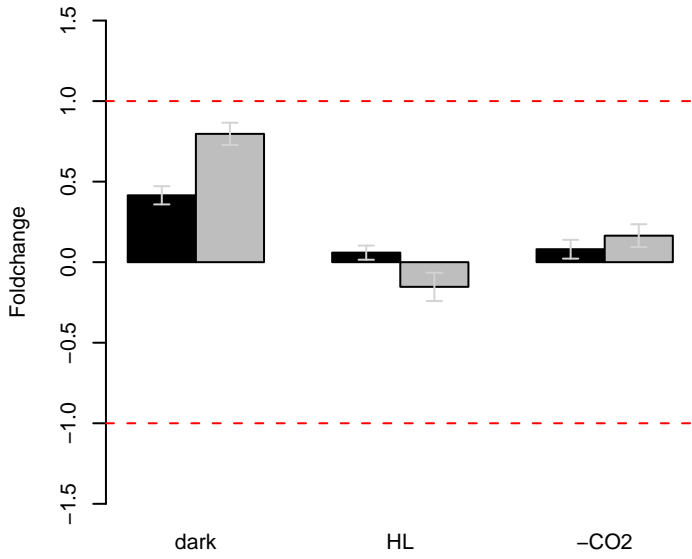
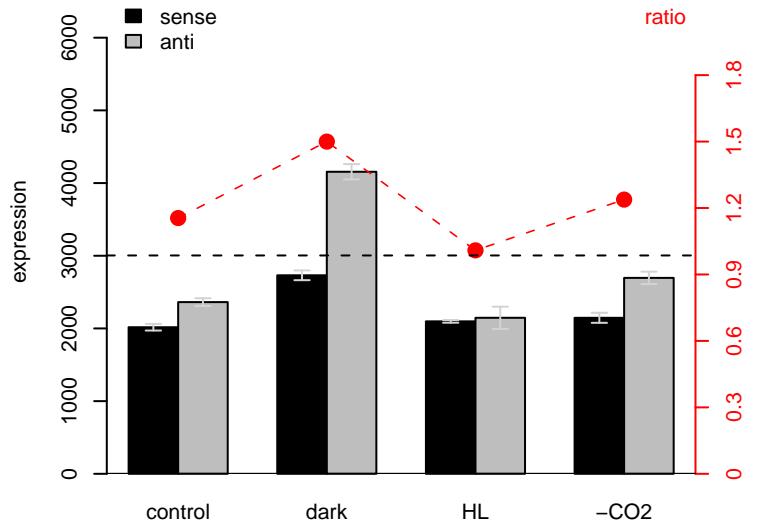
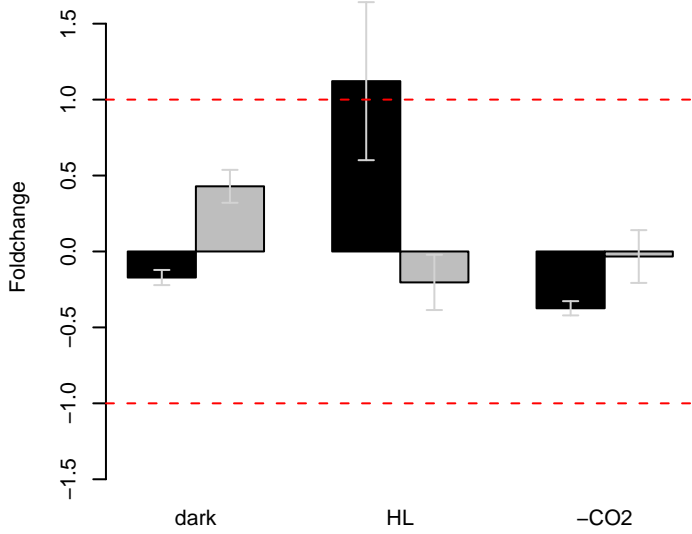
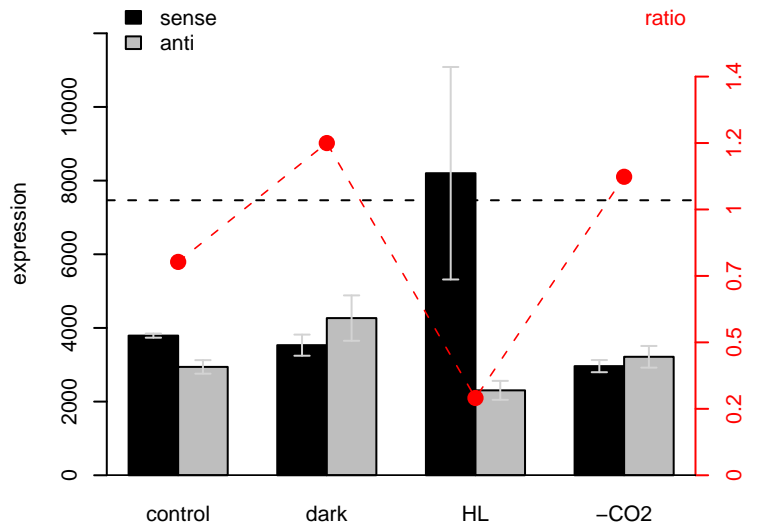
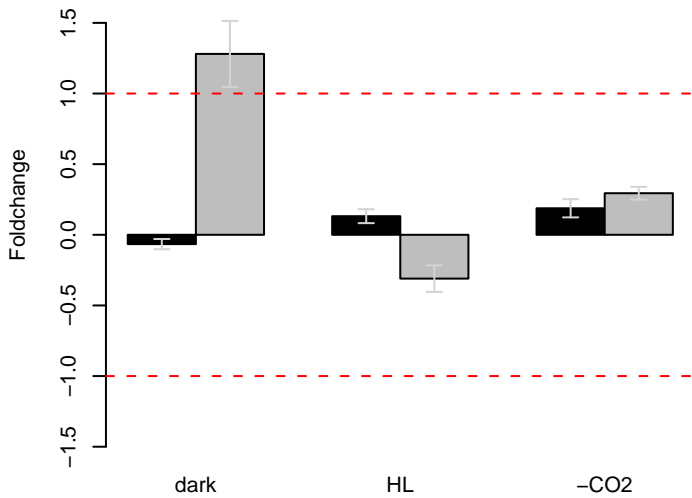
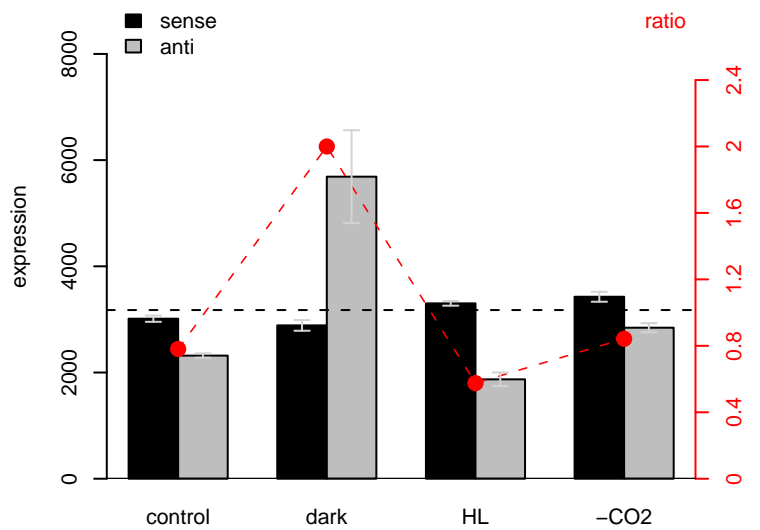


**nucH(sil0656)**

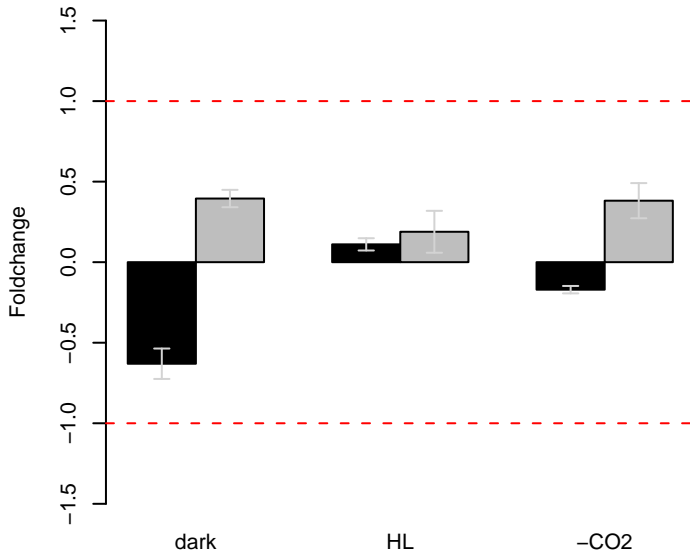
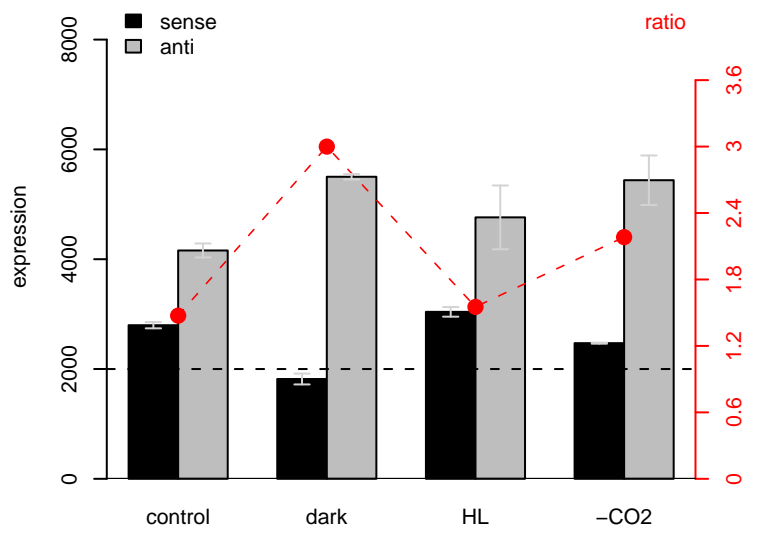
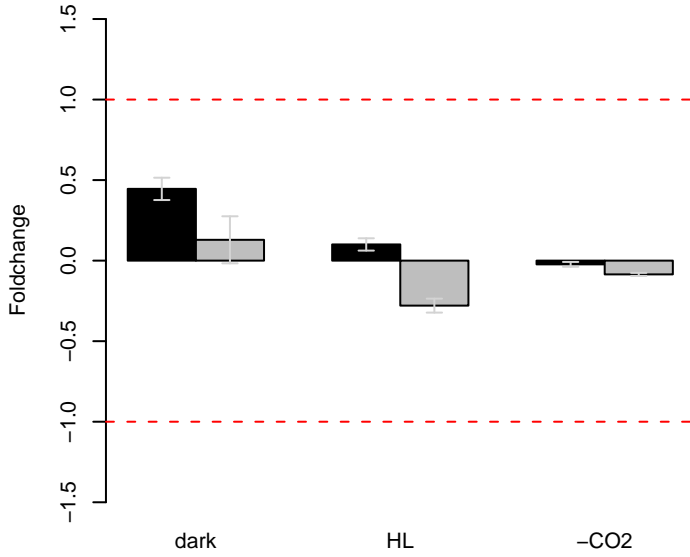
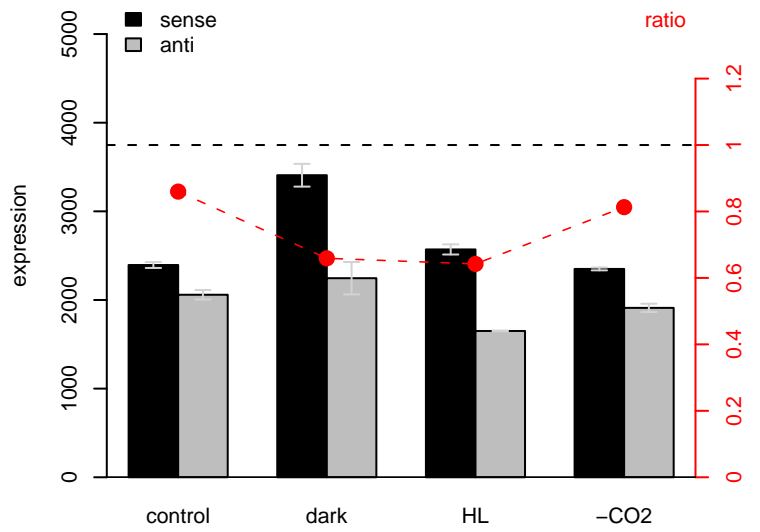
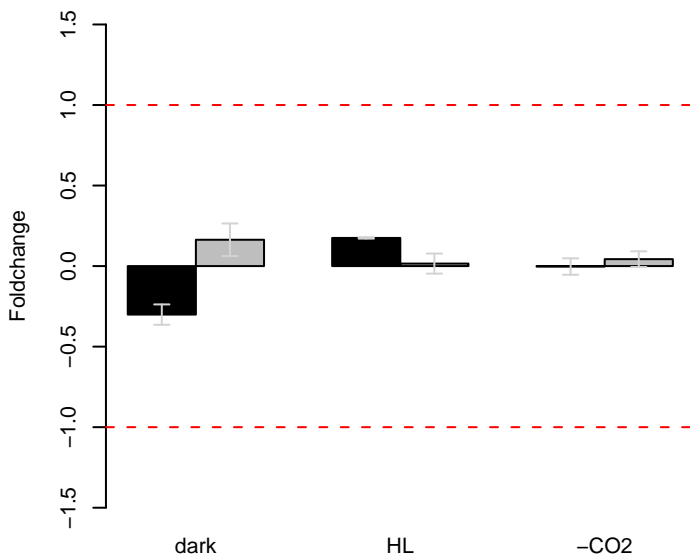
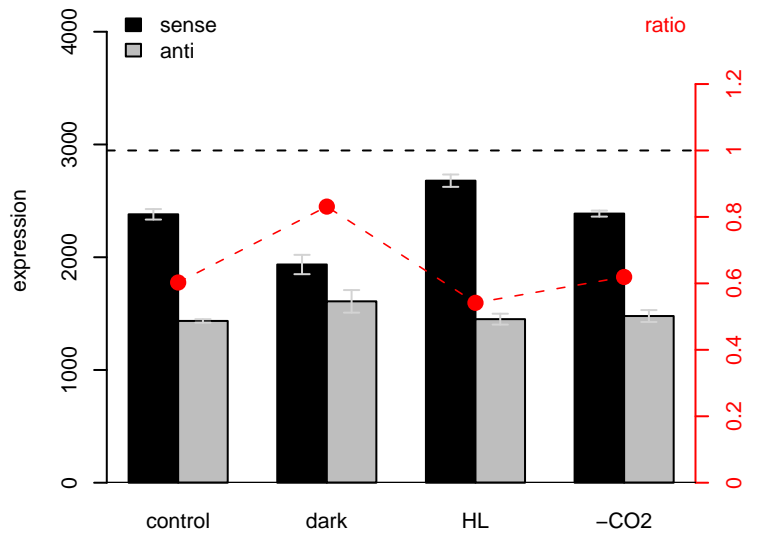


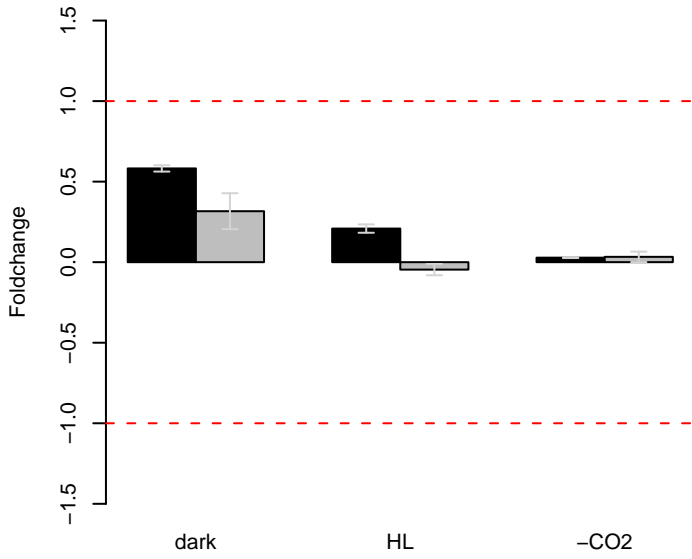
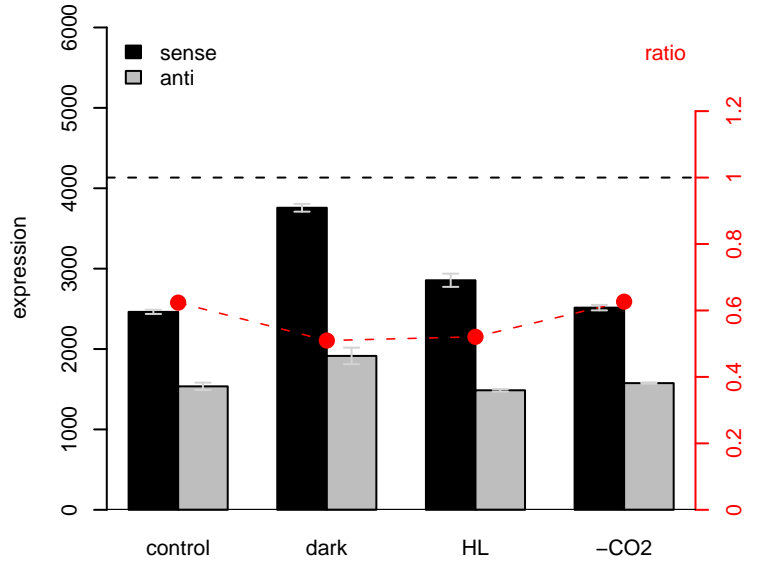
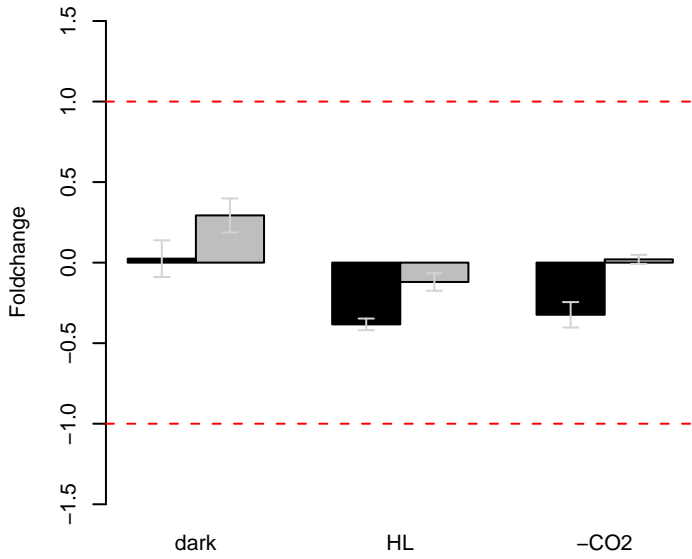
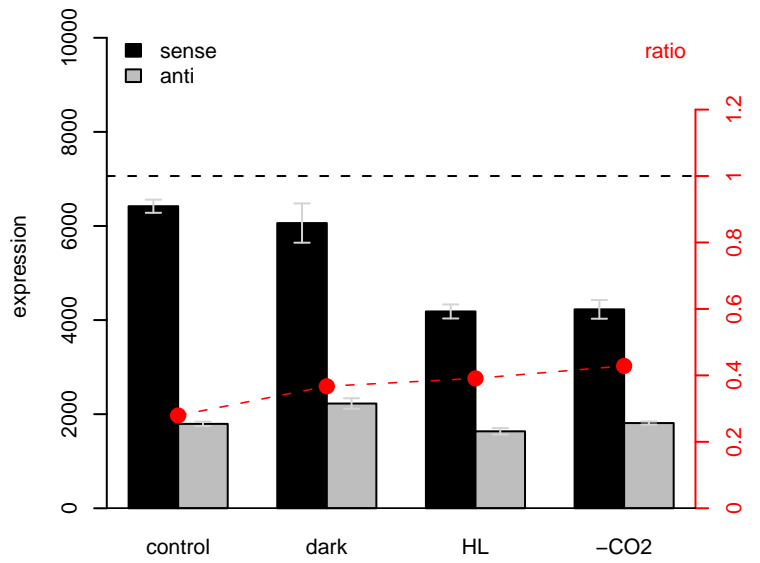
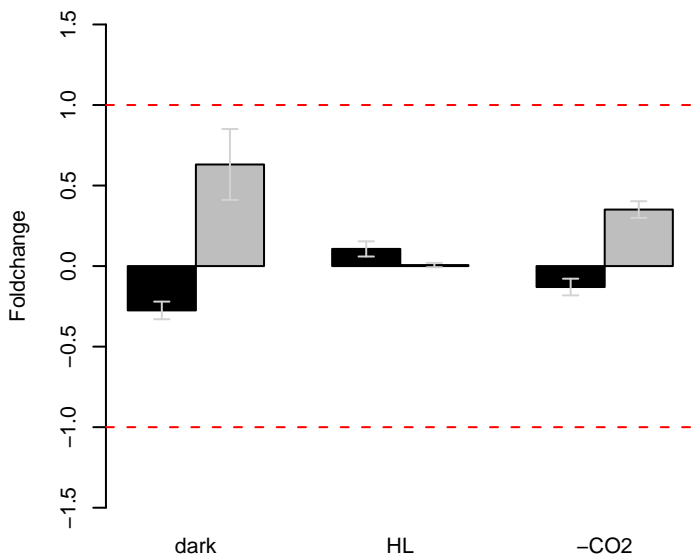
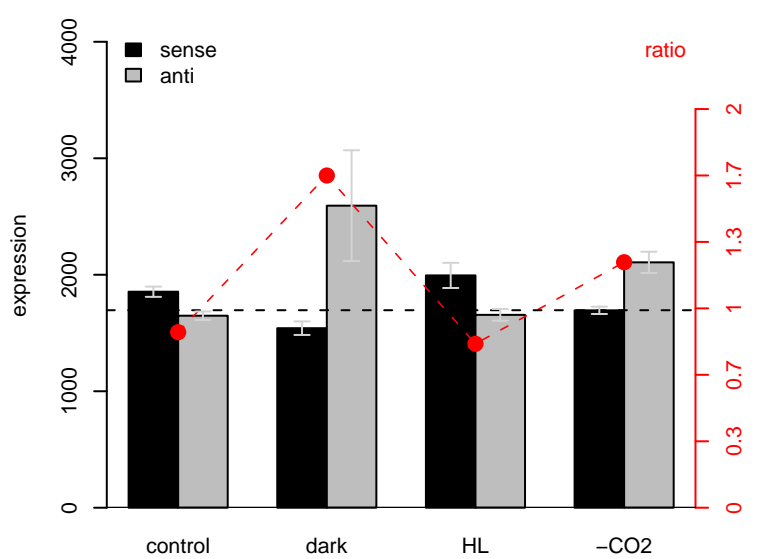
**genome\_568**

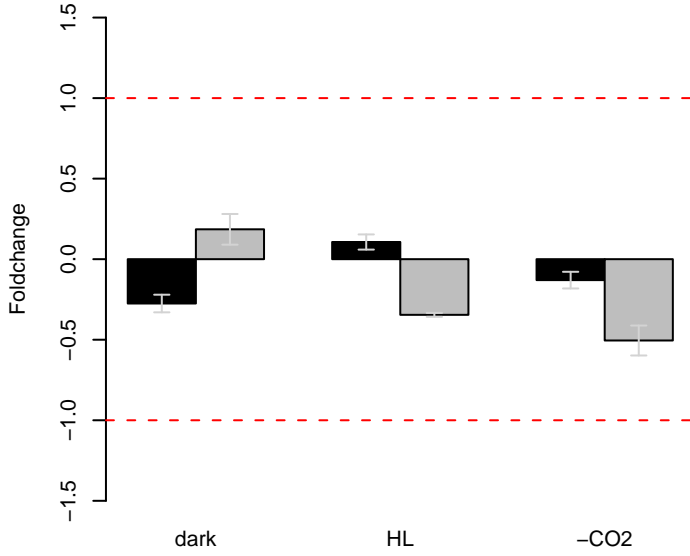
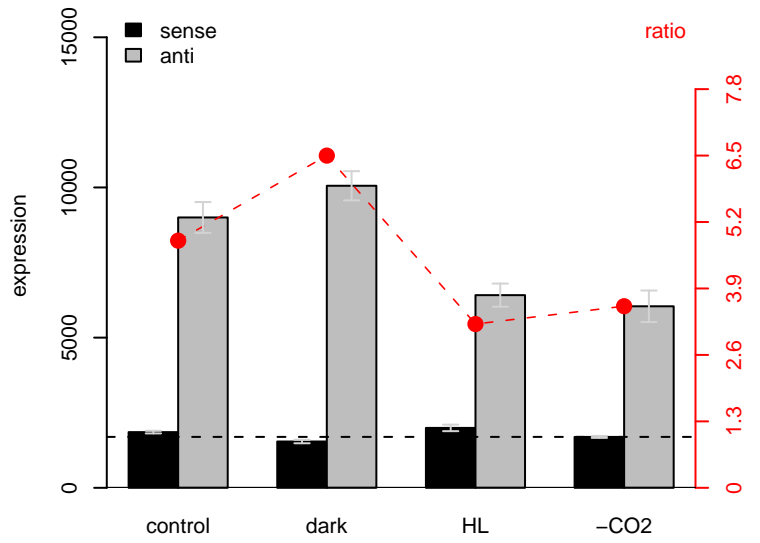
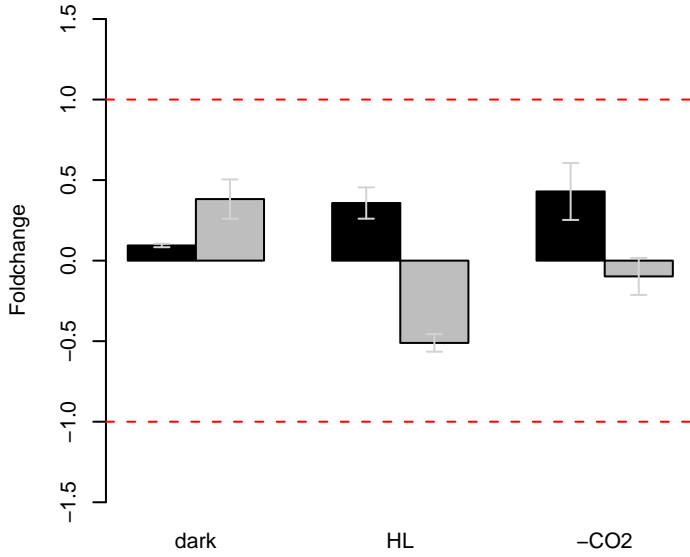
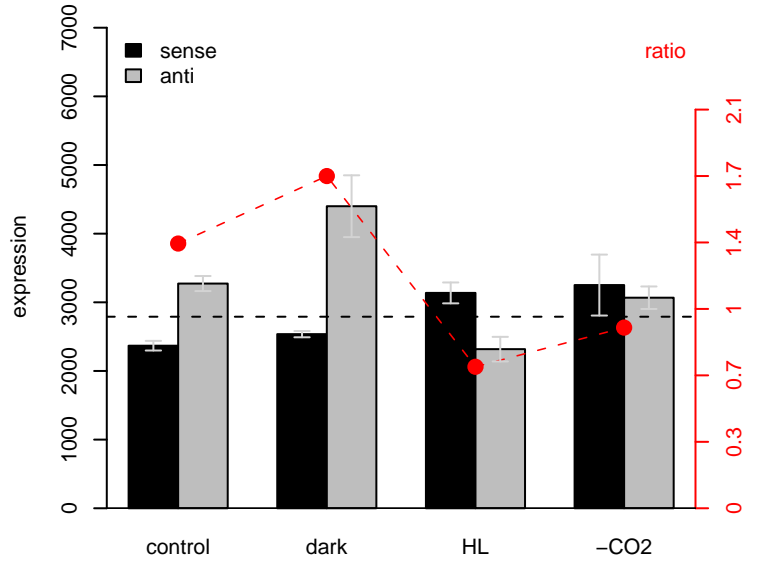
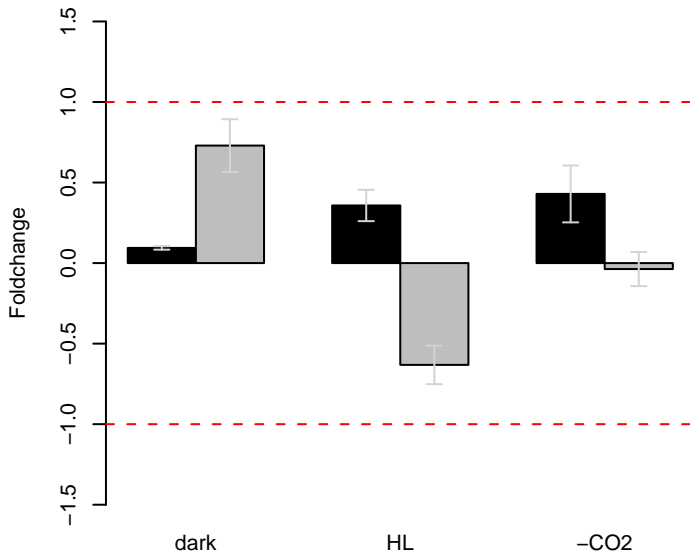
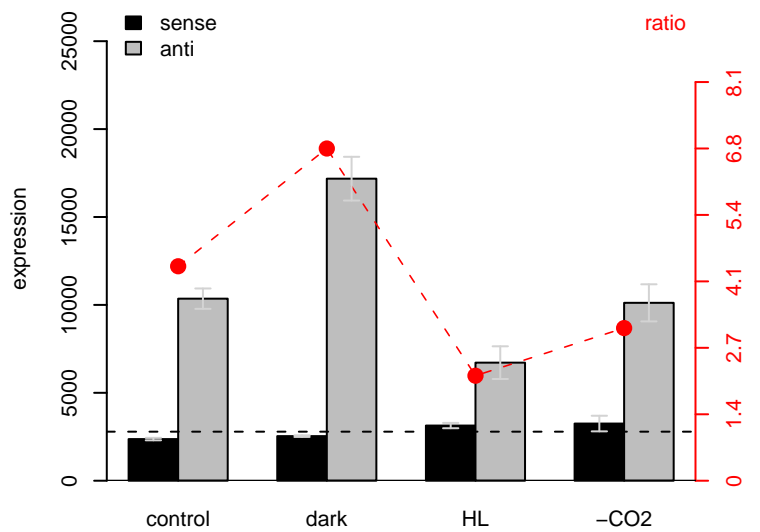


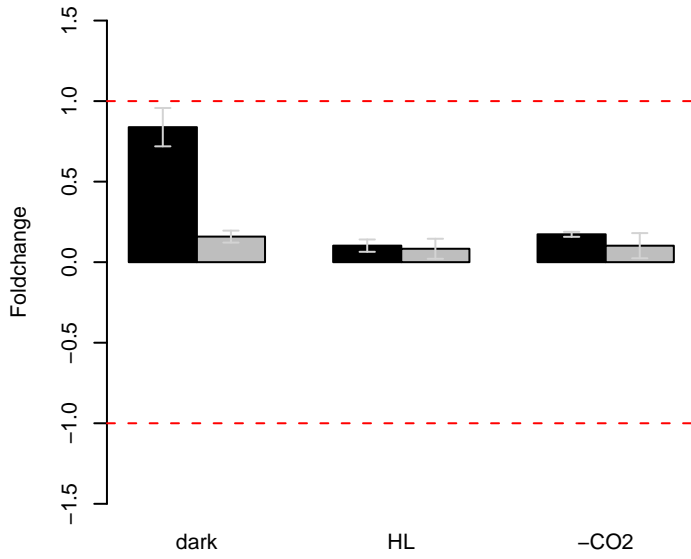
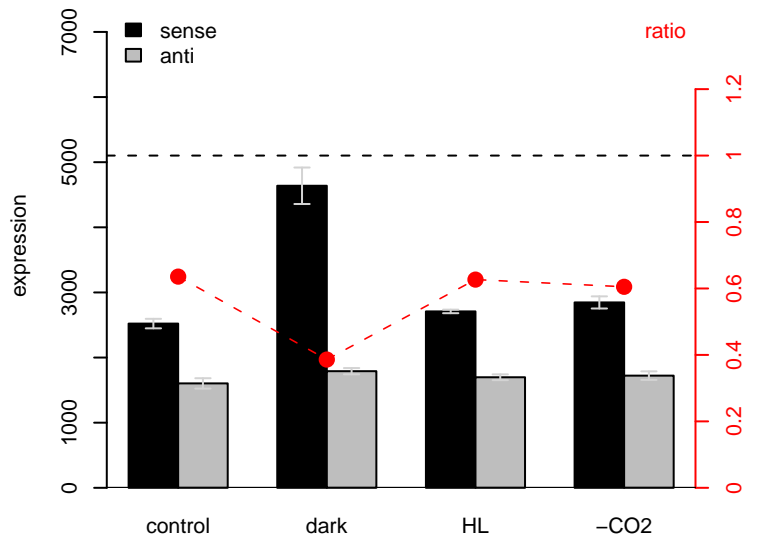
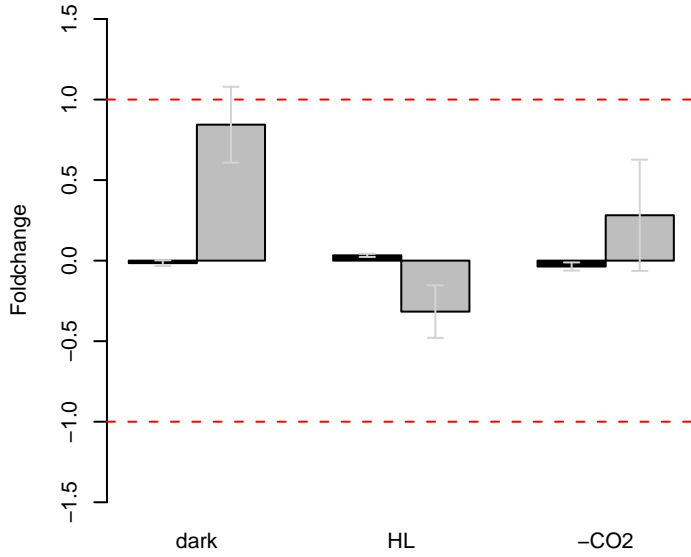
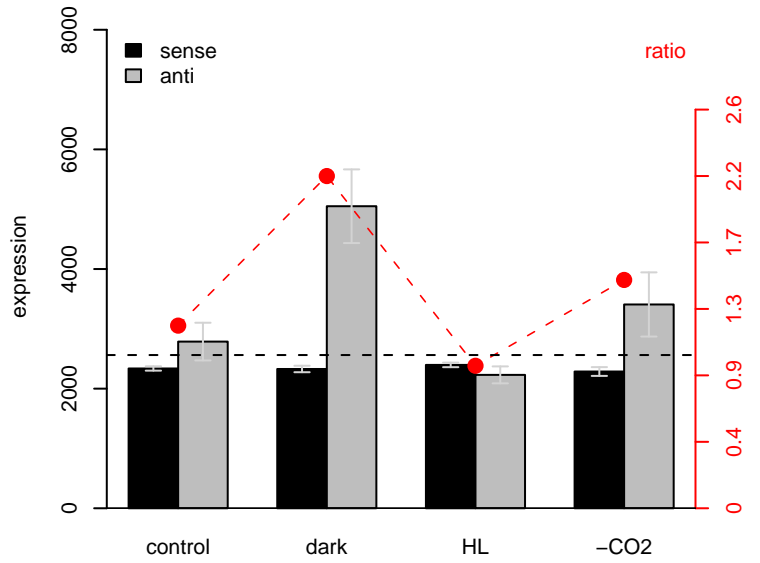
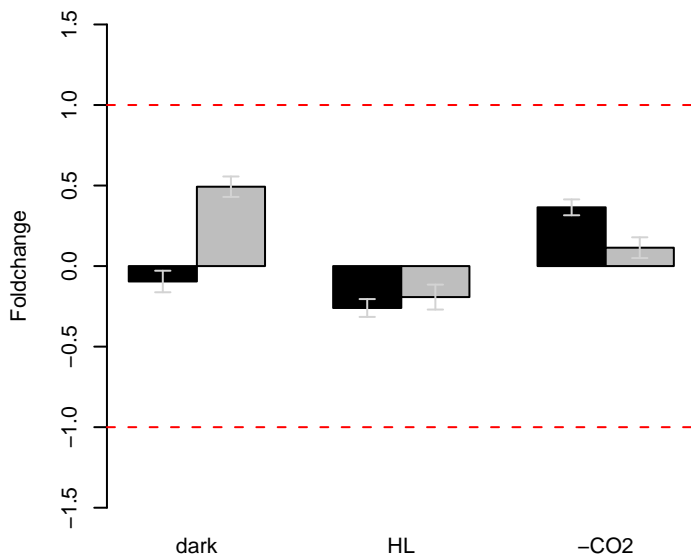
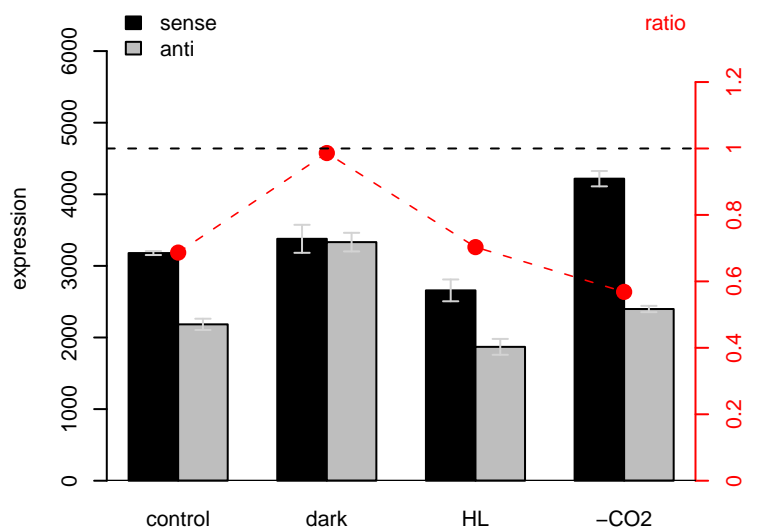
**nucH(sll0656)****genome\_568****cysC(slr0676)****genome\_574****slr0678****genome\_577**

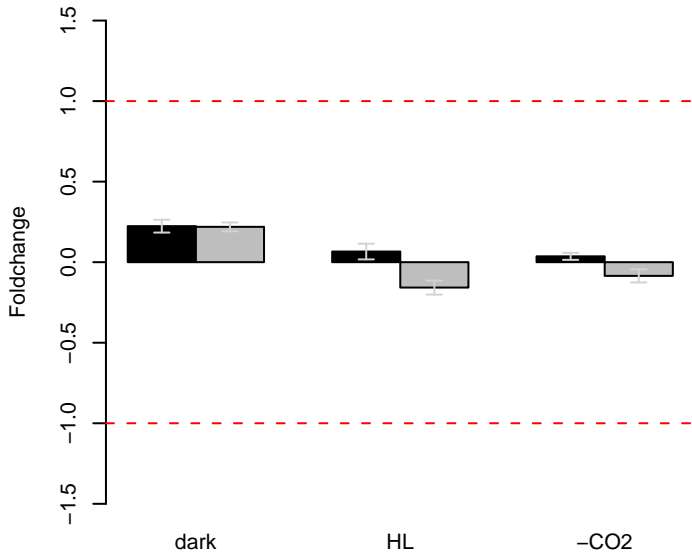
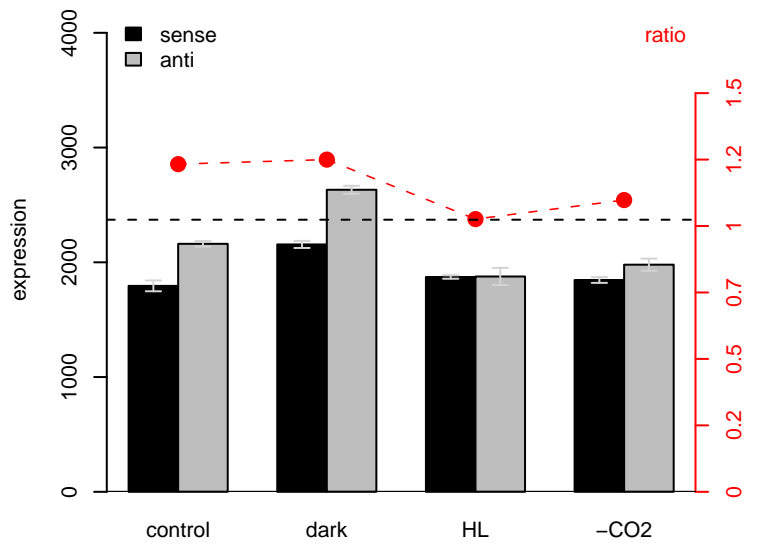
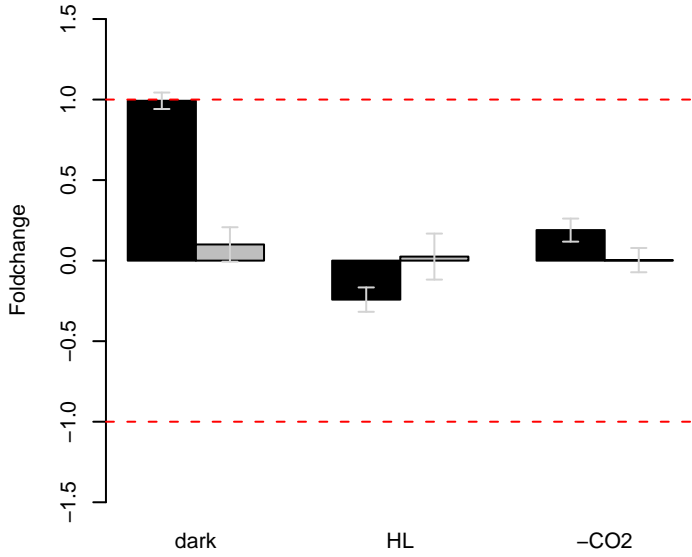
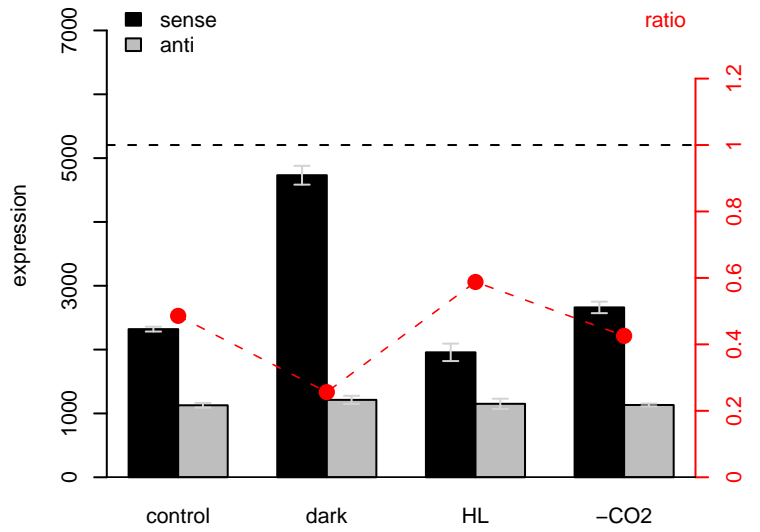
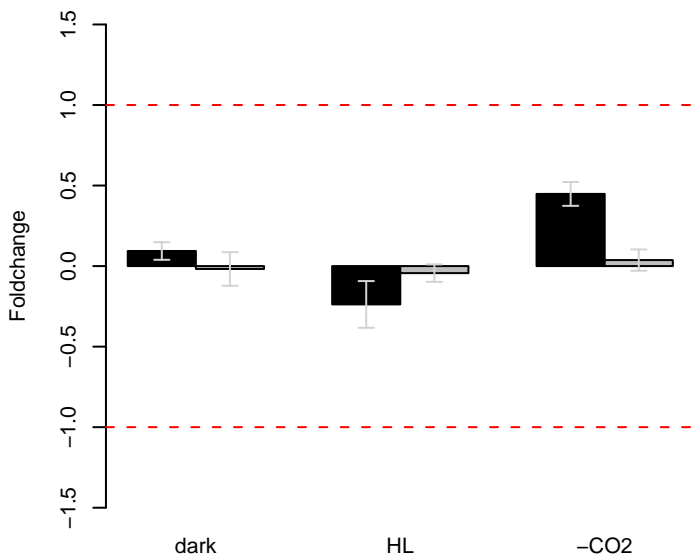
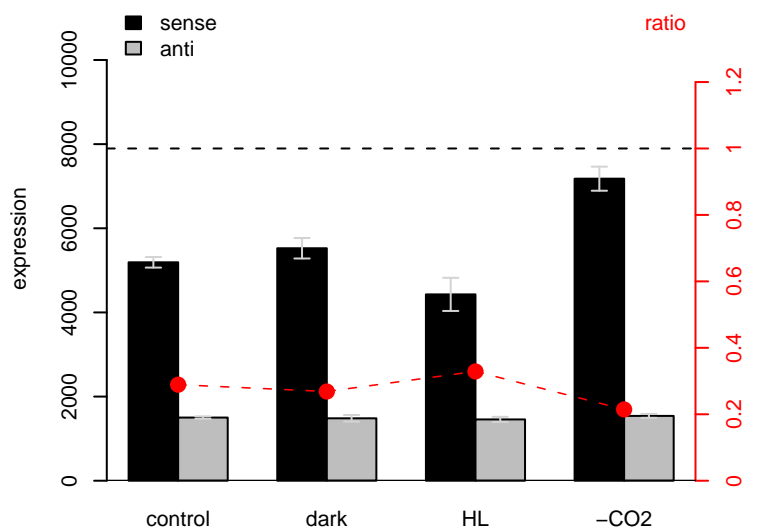


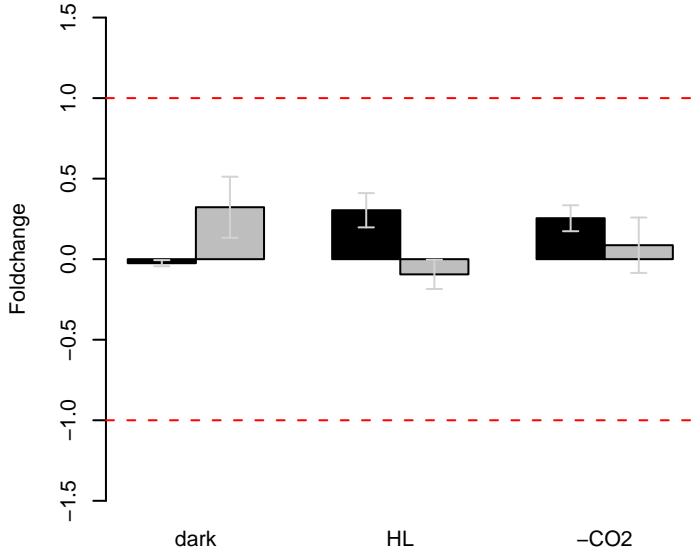
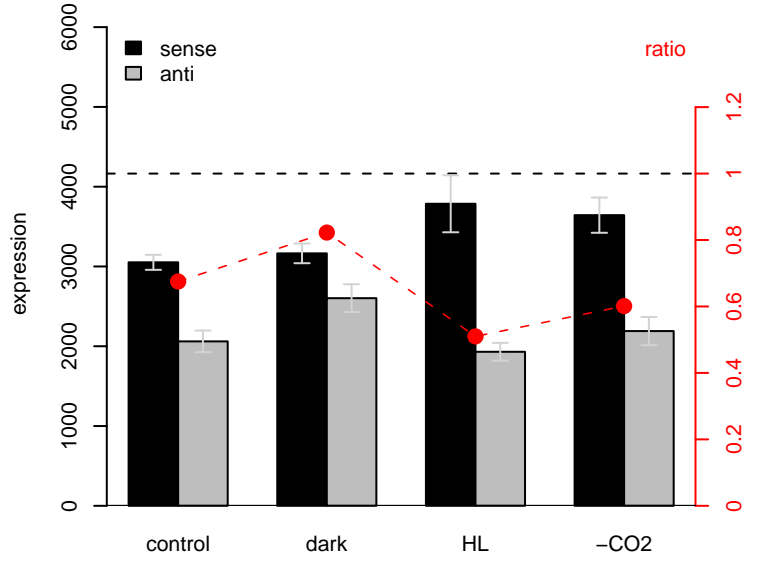
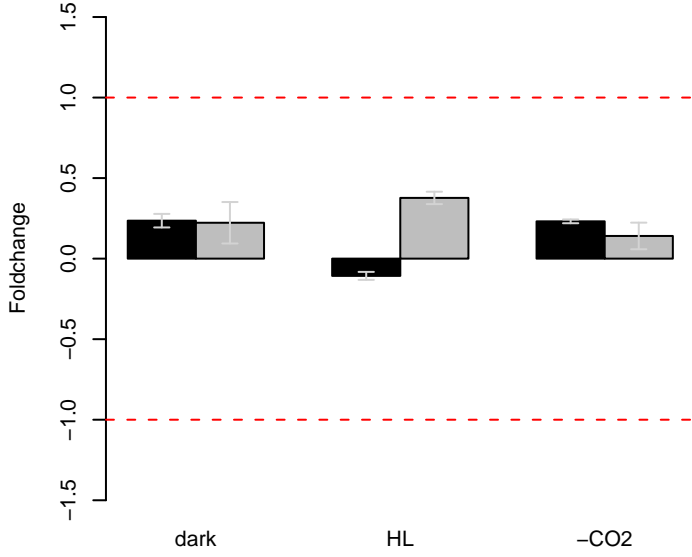
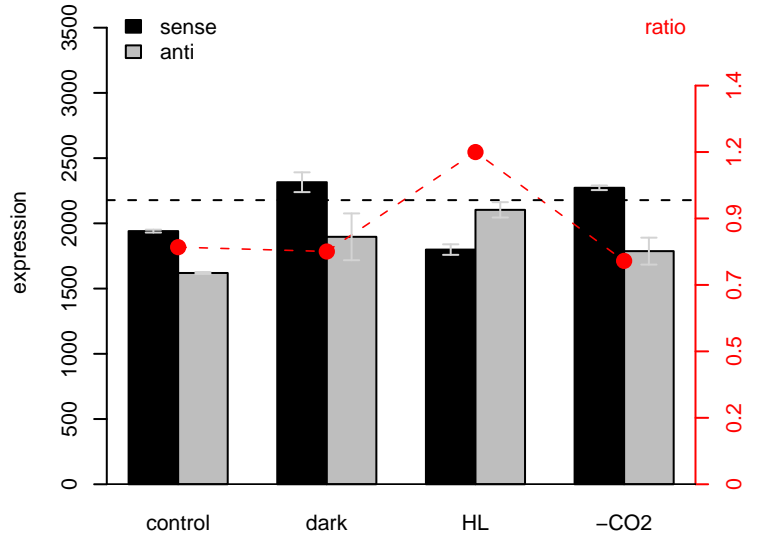
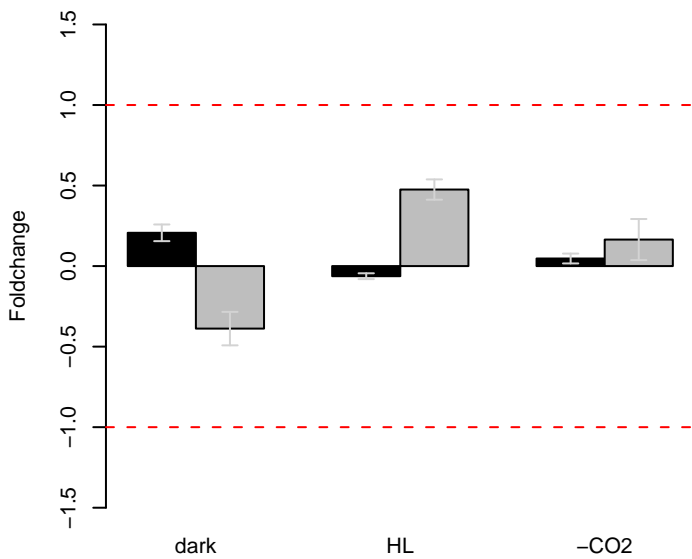
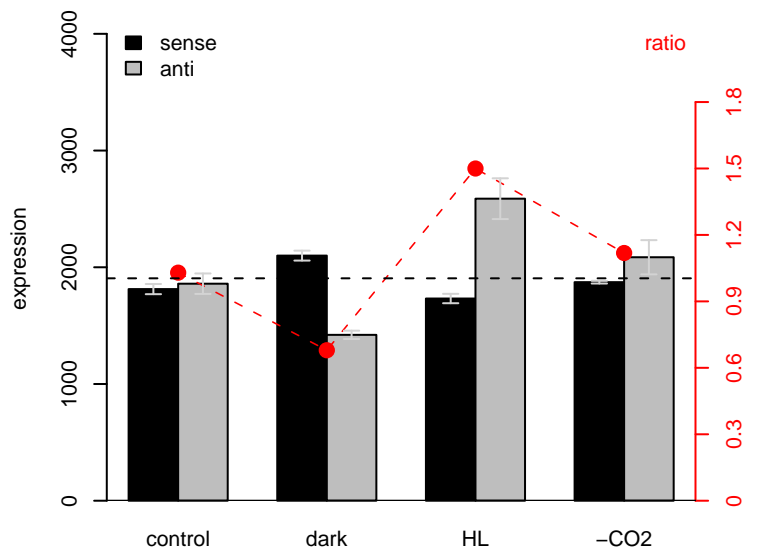
**sll1399****genome\_57****fmu%2Ffmv(slr0679)****genome\_579****sll0649****genome\_586**

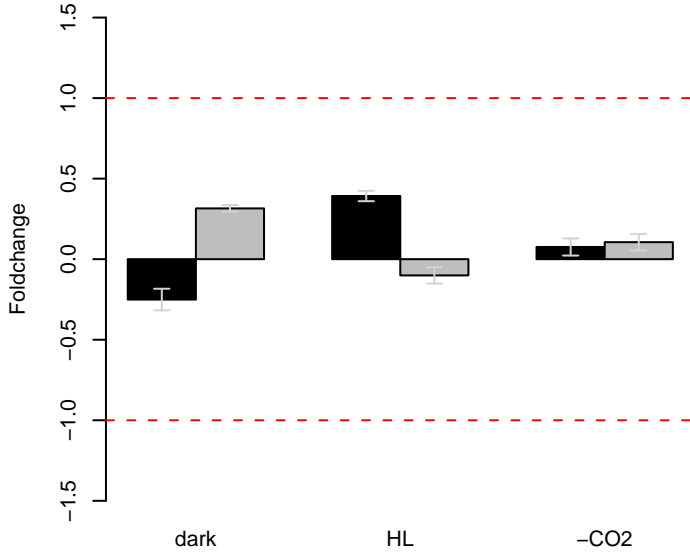
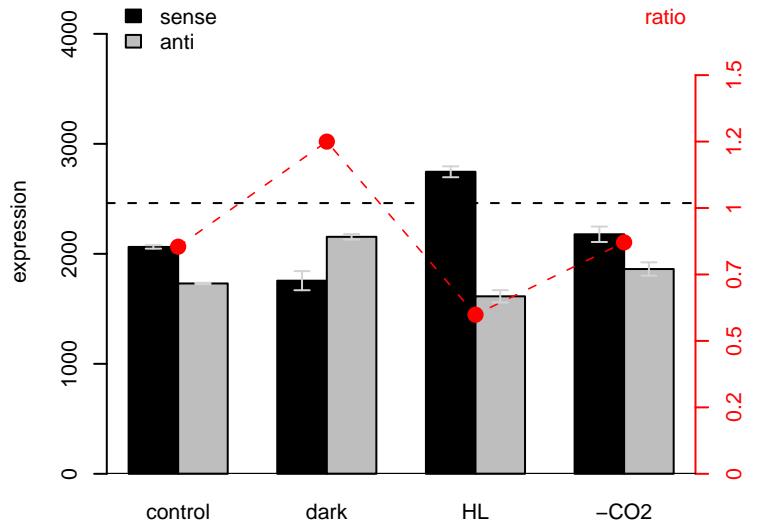
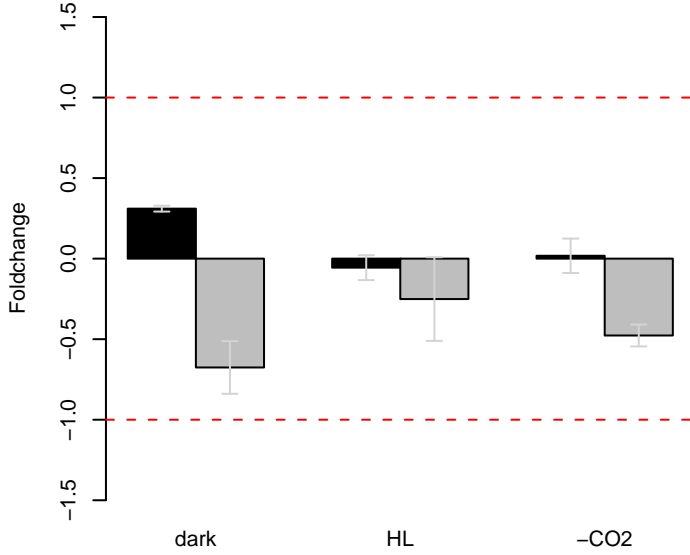
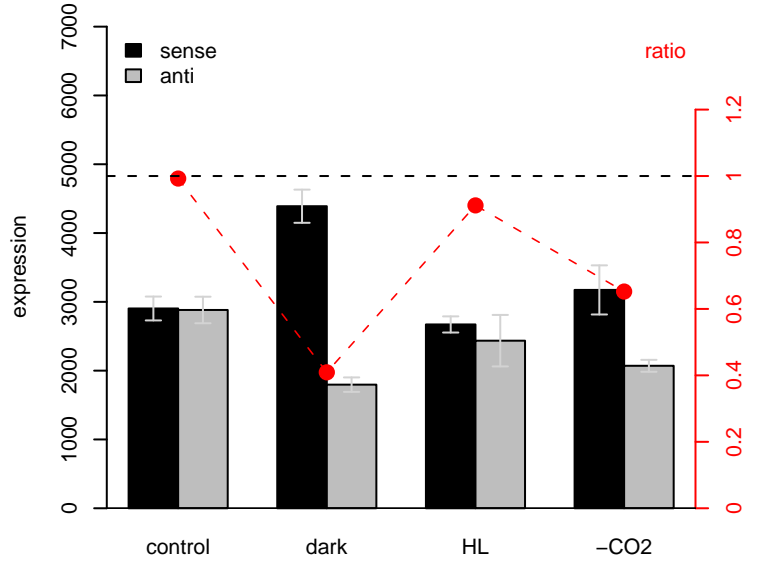
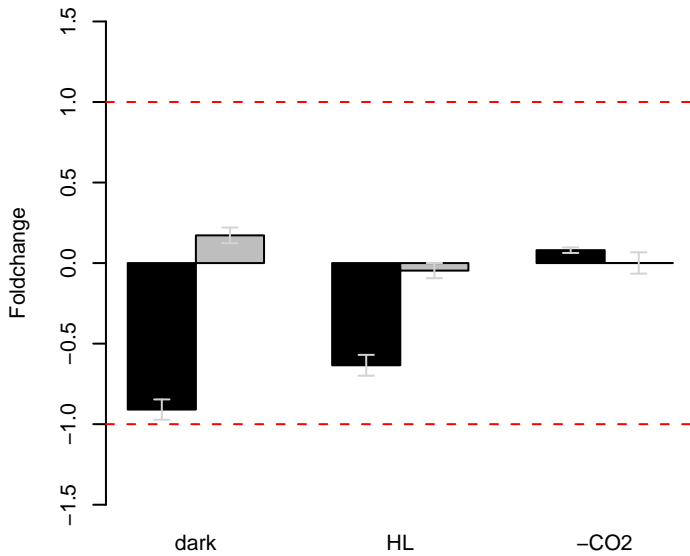
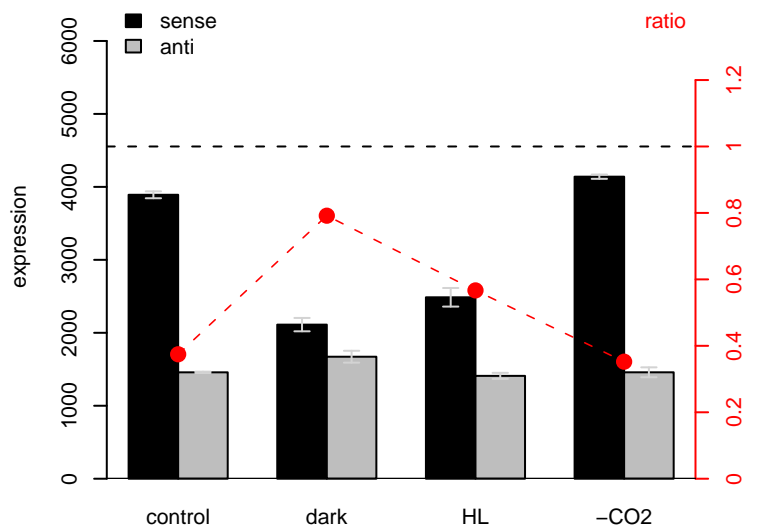
**sII0647****genome\_589****cyaA(sII0646)****genome\_591****Sac1(sII0640)****genome\_602**

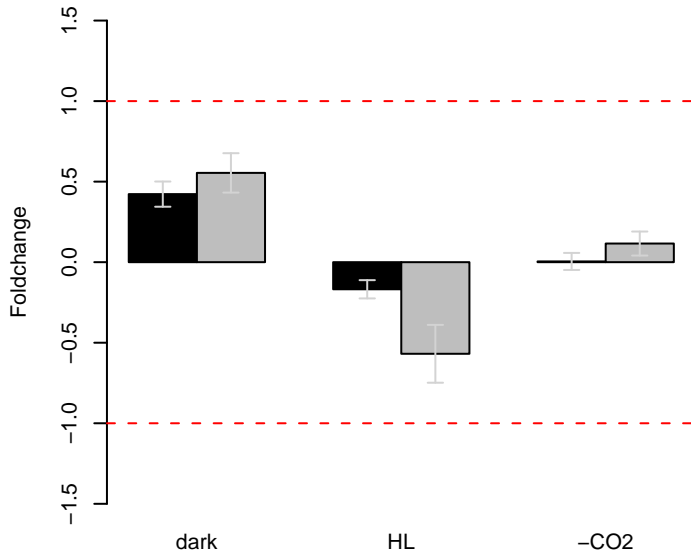
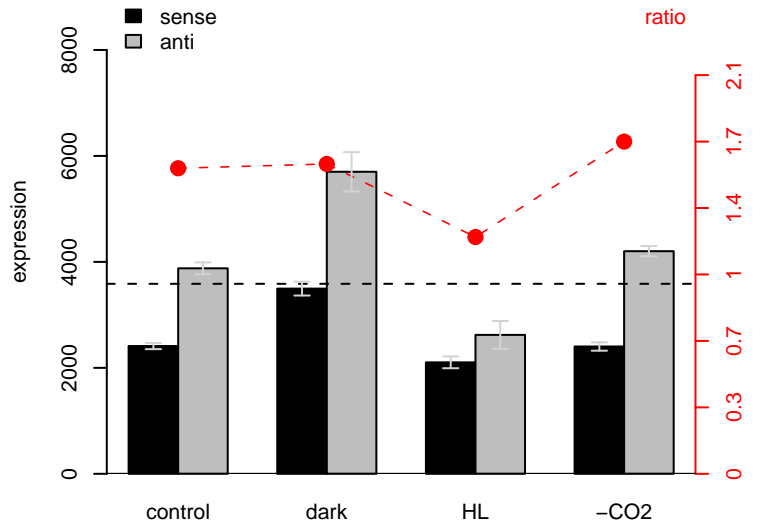
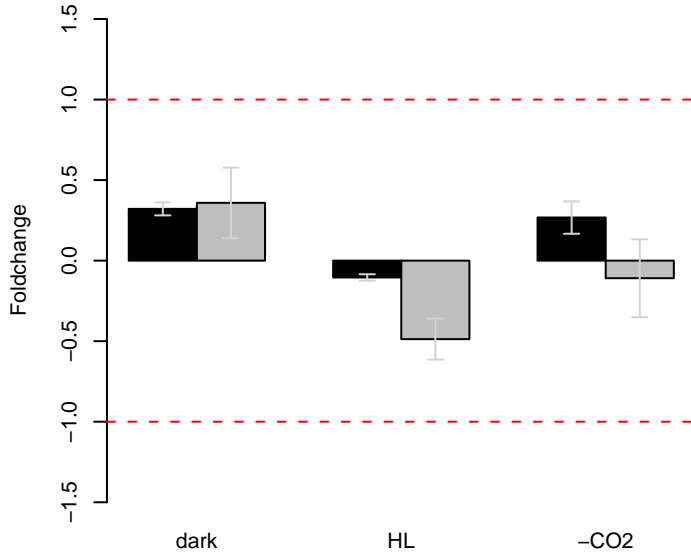
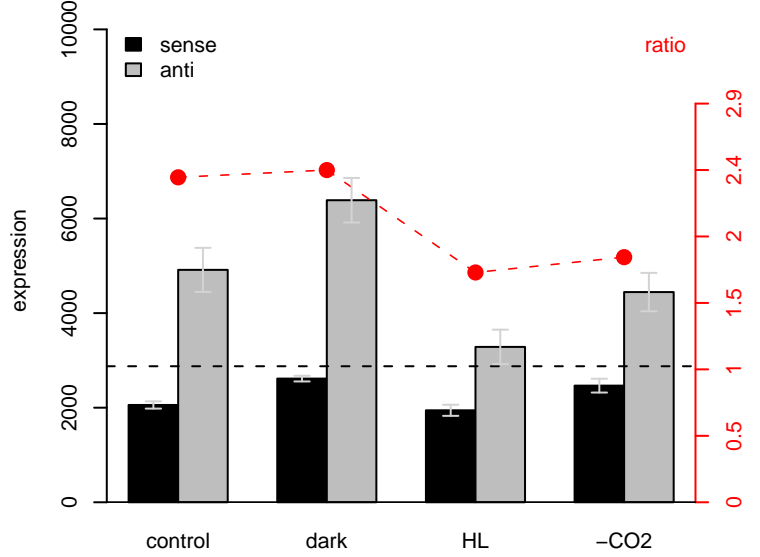
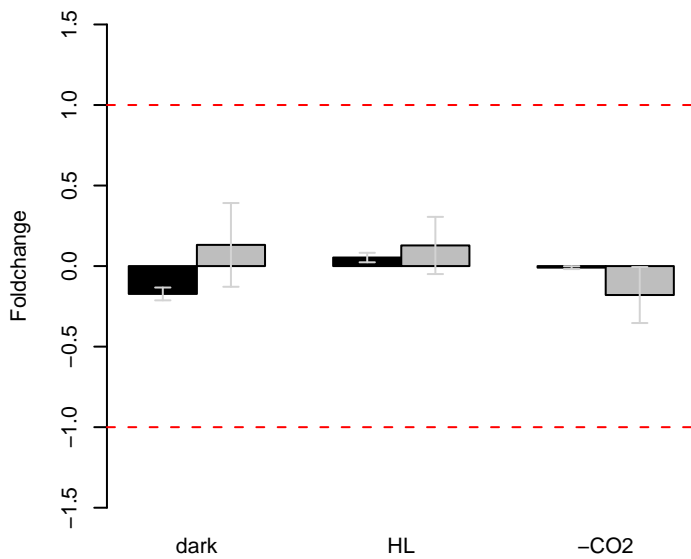
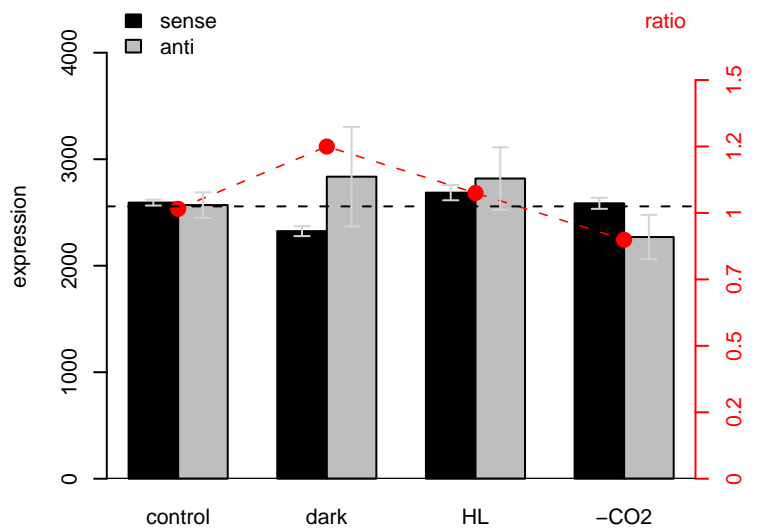
**Sac1(sll0640)****genome\_602****slr0689****genome\_610****slr0689****genome\_610**

**sli0639****genome\_613****sli0638****genome\_615****ycf45(slr0692)****genome\_617**

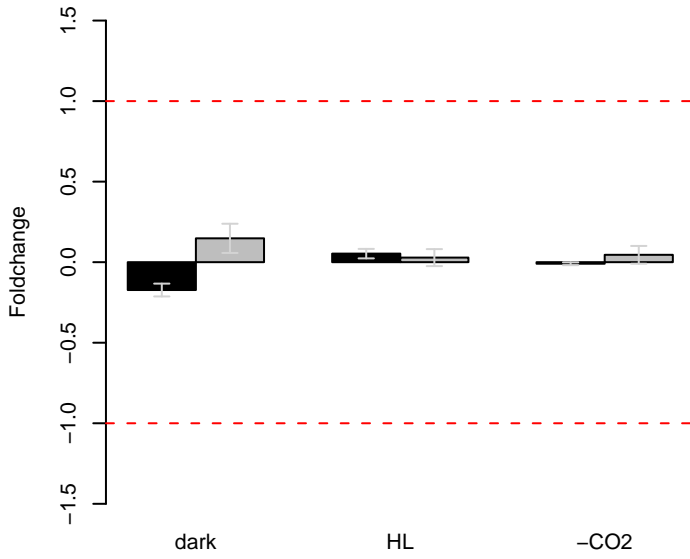
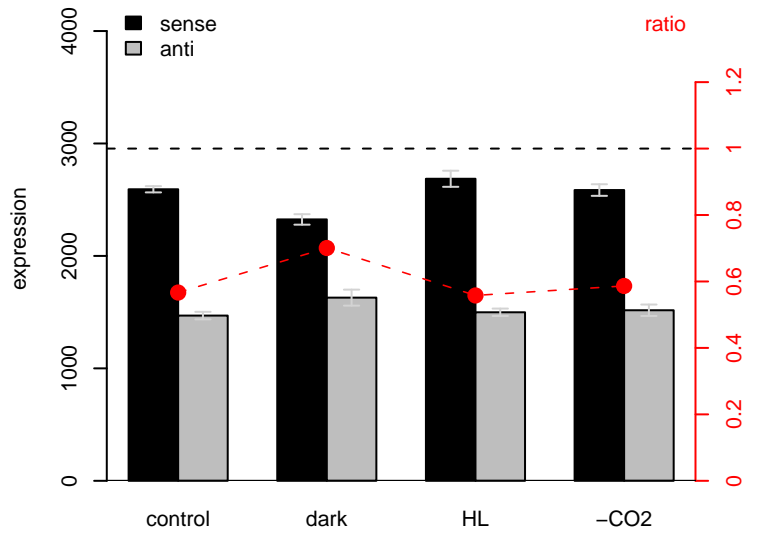
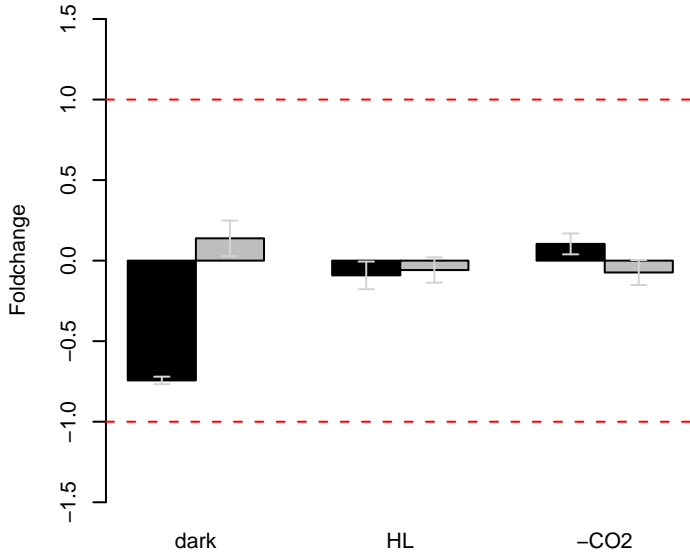
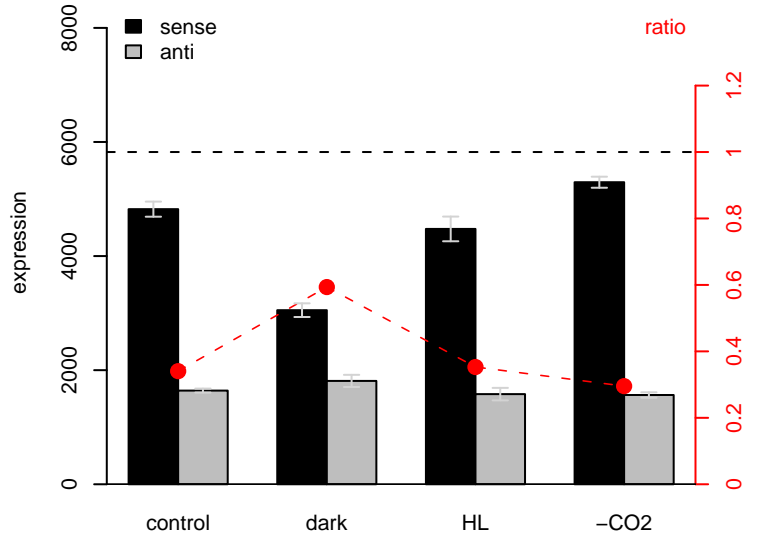
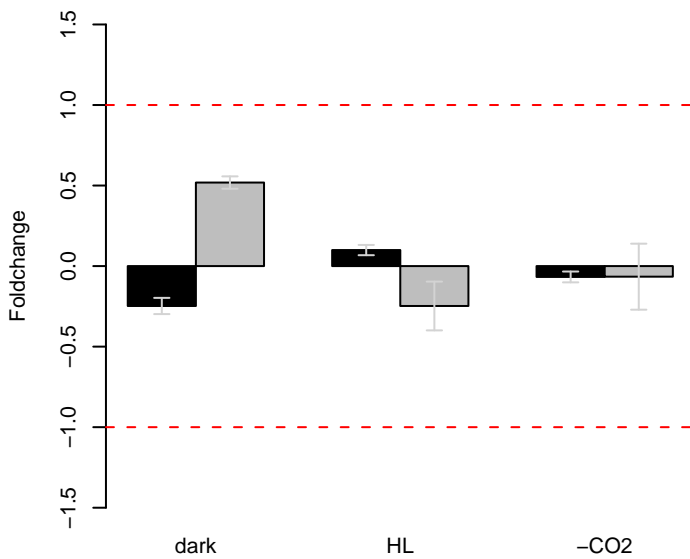
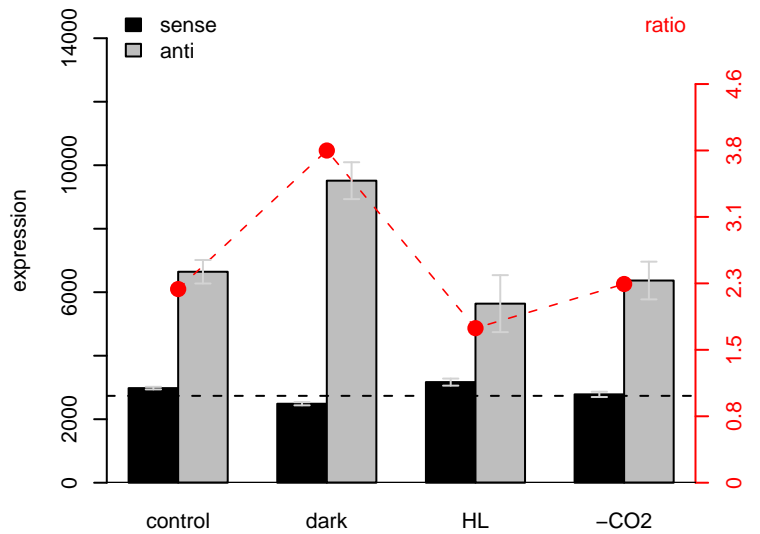
**slr1591****genome\_624****sll1396****genome\_62****ccsA(sll1513)****genome\_644**

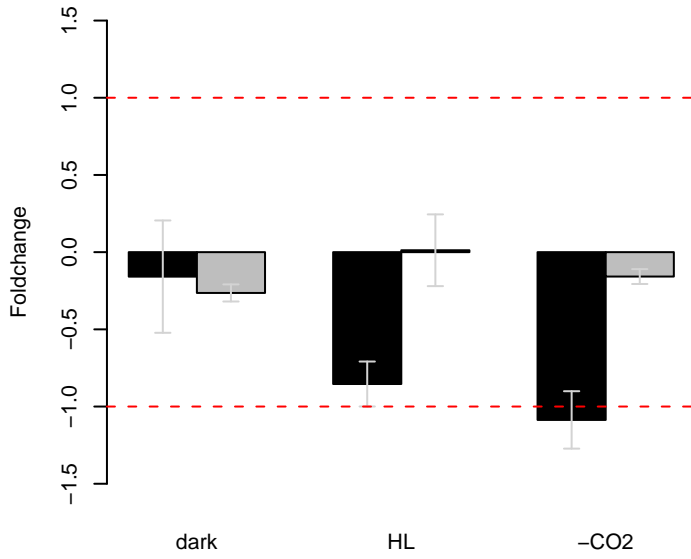
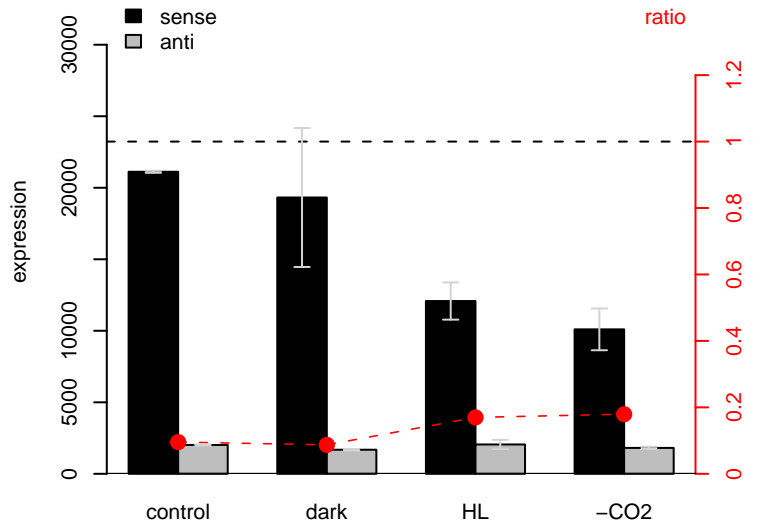
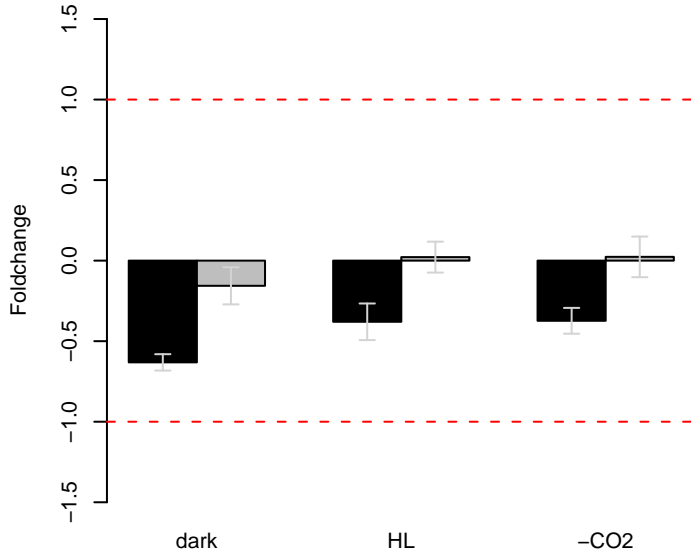
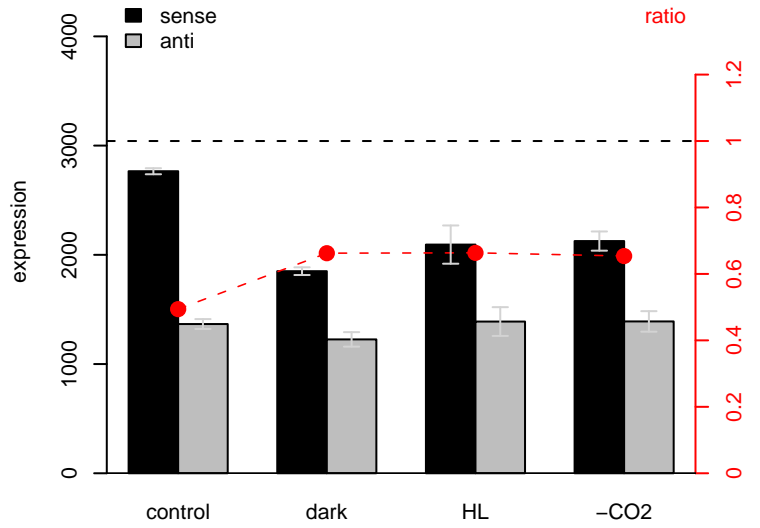
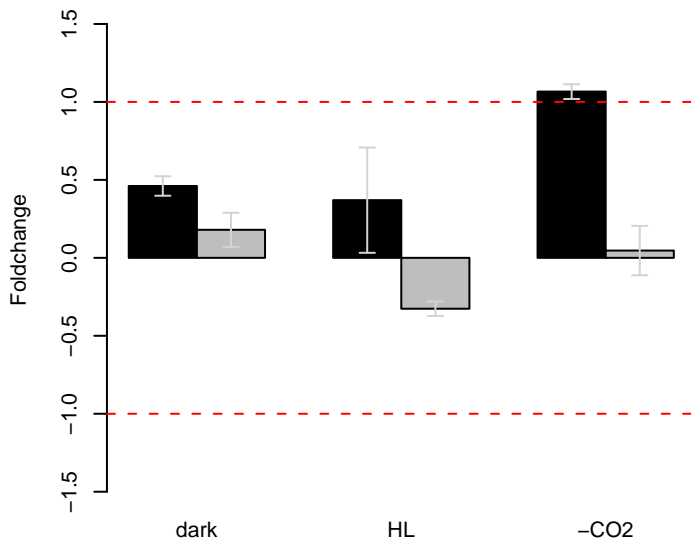
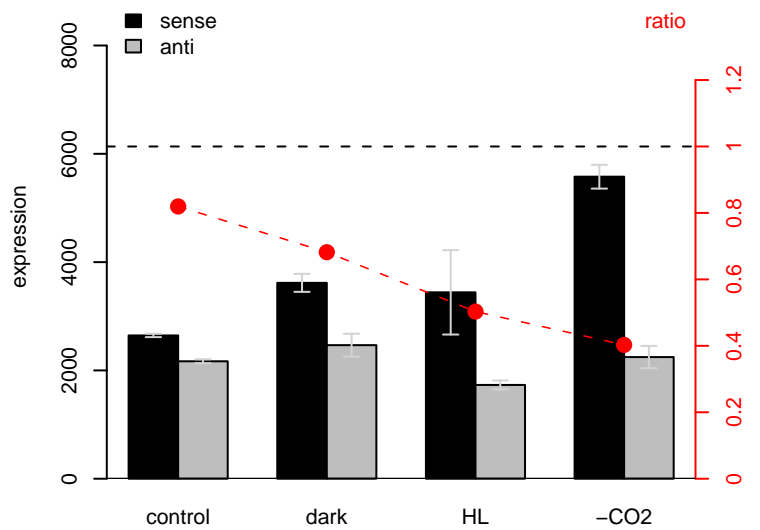
**lipA(slr1598)****genome\_647****hypD(slr1498)****genome\_64****sll1511****genome\_649**

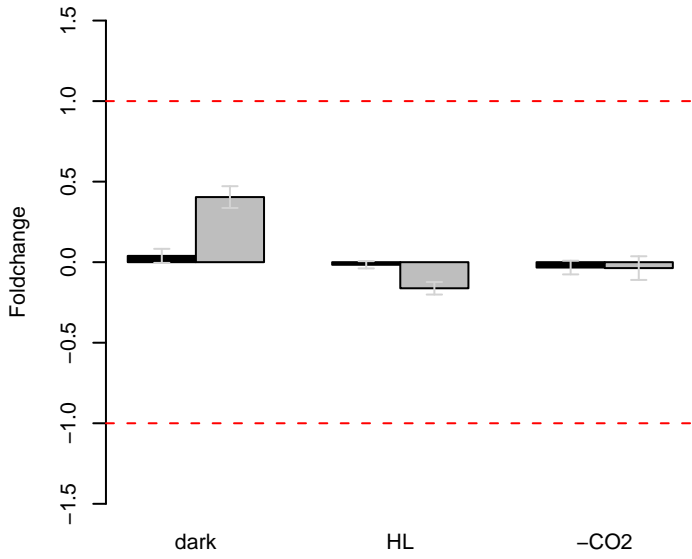
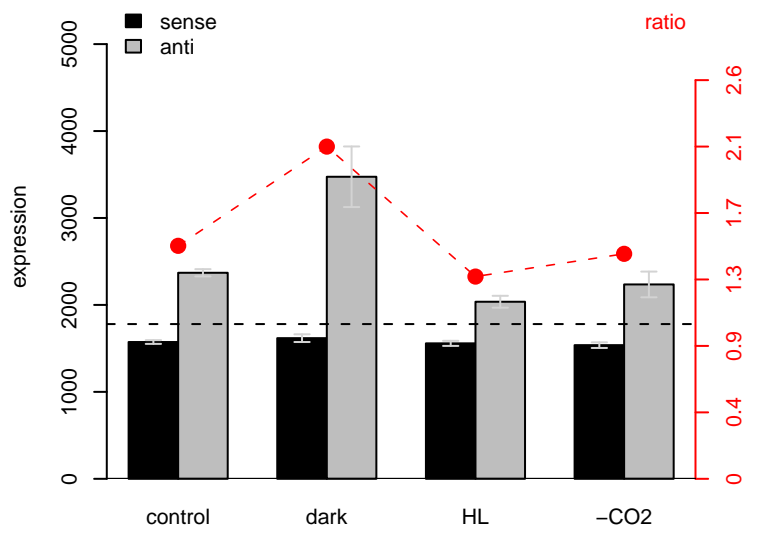
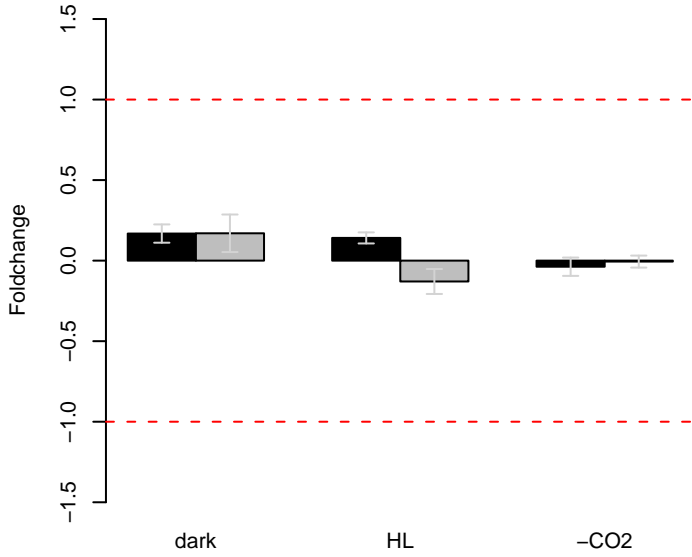
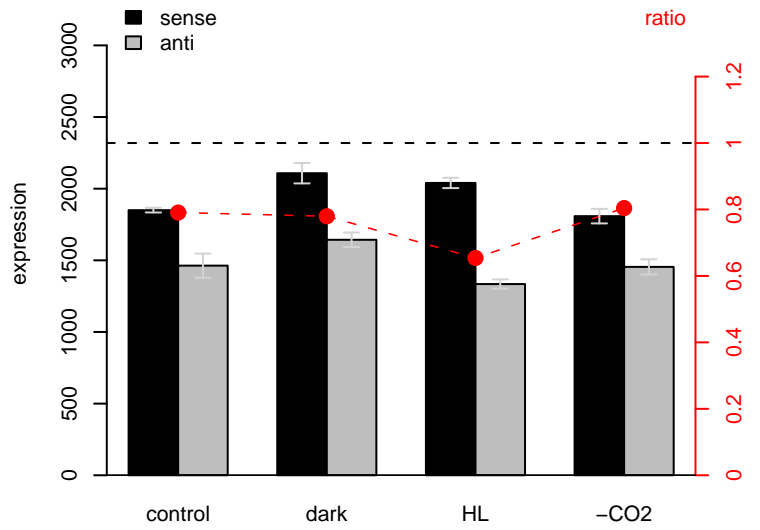
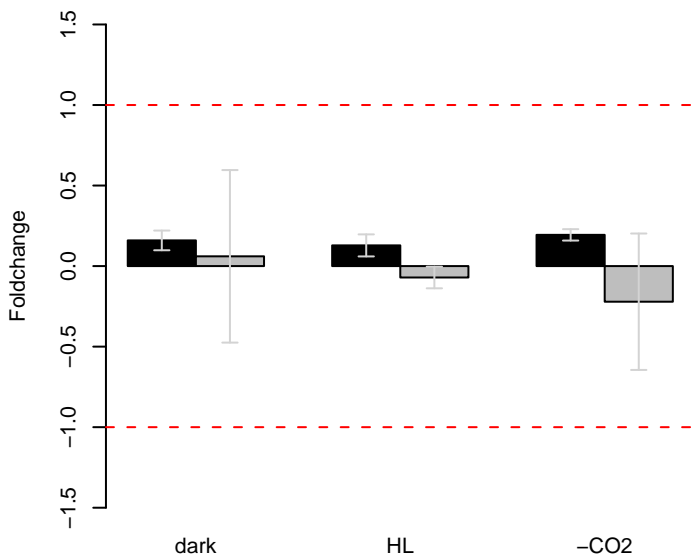
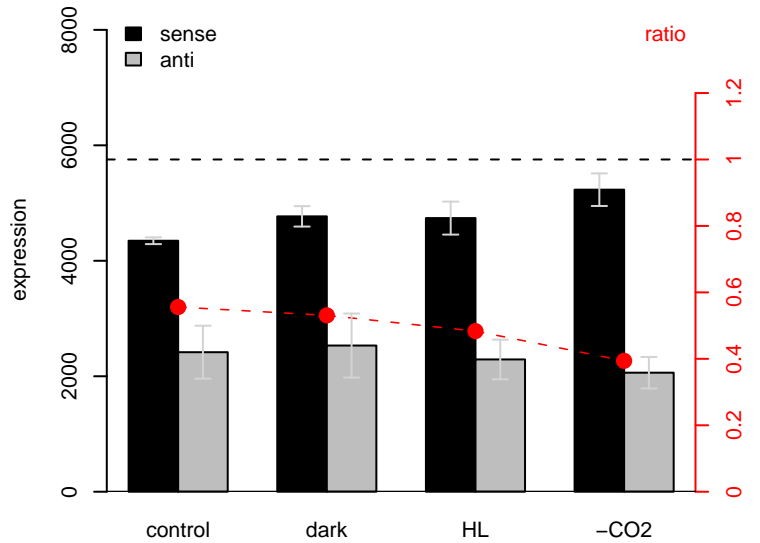
**rfbD(sII1395)****genome\_66****vapB(ssI2922)****genome\_670****gltB(sII1502)****genome\_678**

**ssr2711****genome\_683****gdhB(slr1608)****genome\_685****slr1609****genome\_691**

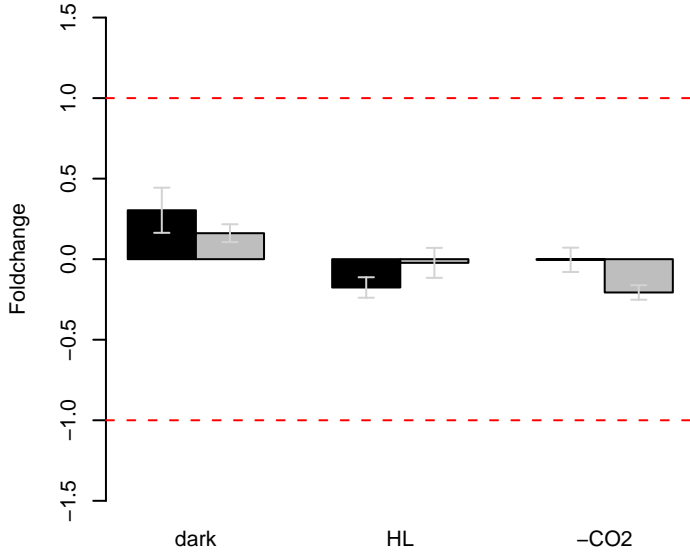


**slr1609****genome\_691****mcpA(slr1044)****genome\_697****slr1052****genome\_708**

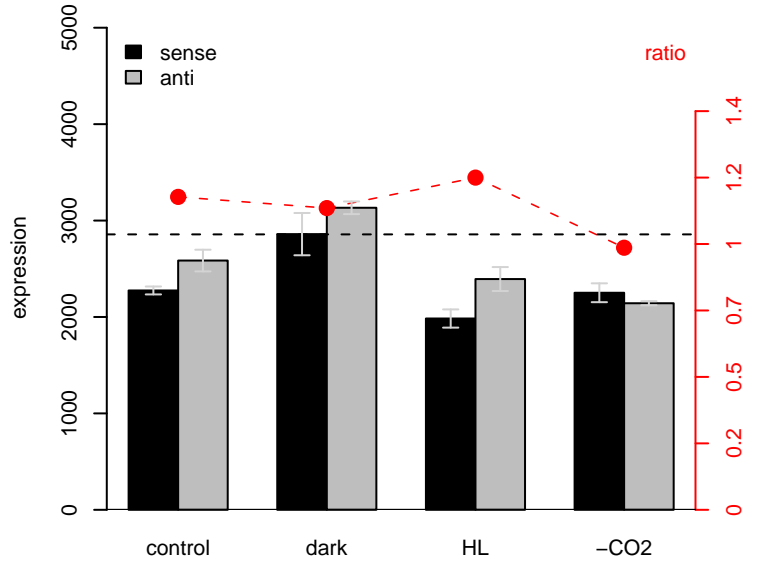
**frpC(sll1009)****genome\_713****slr1056****genome\_717****slr1501****genome\_71**

**sll1006****genome\_721****mazG(sll1005)****genome\_723****ssl1920****genome\_730**

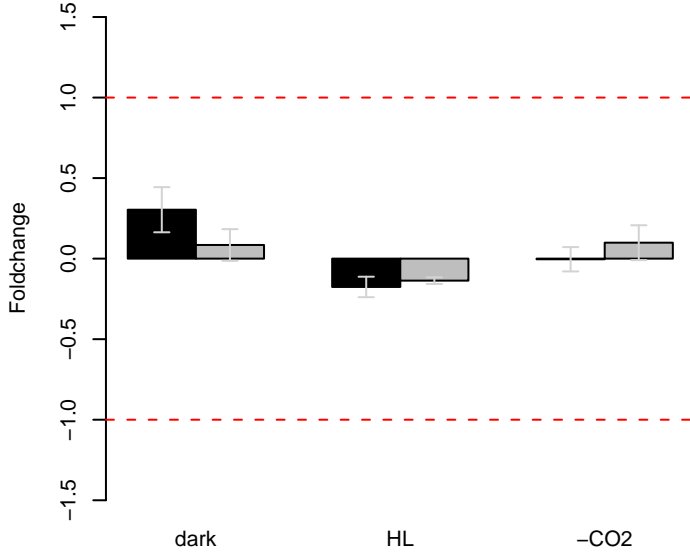
**ycf22(sll1002)**



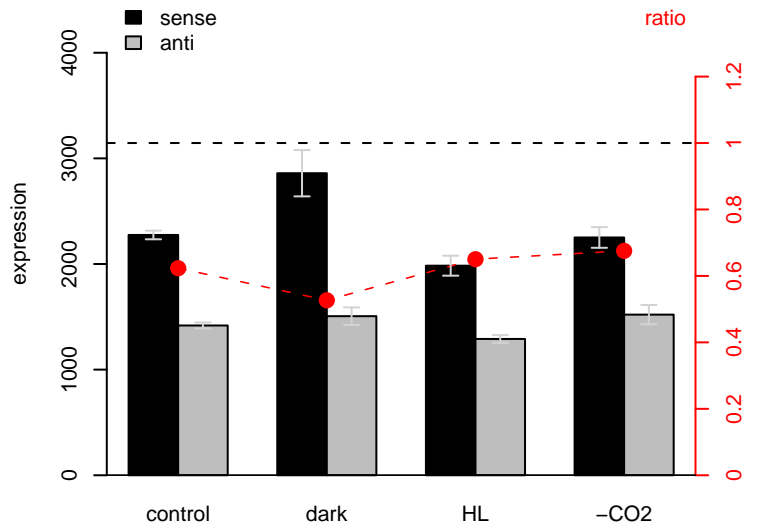
**genome\_732**



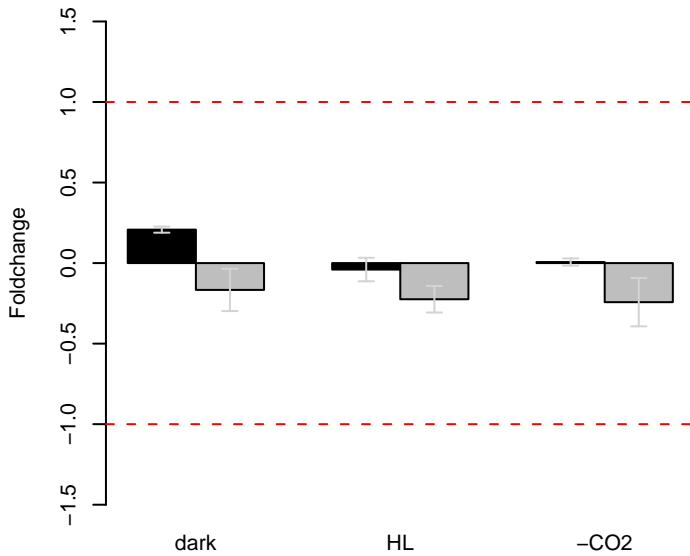
**ycf22(sll1002)**



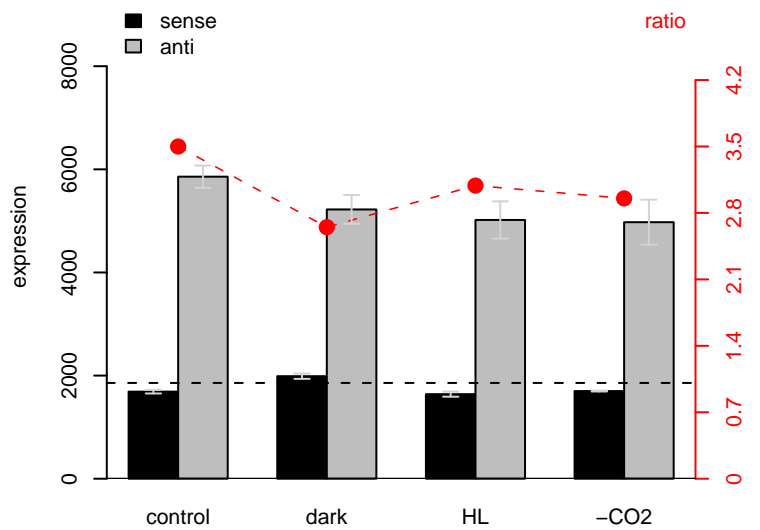
**genome\_732**

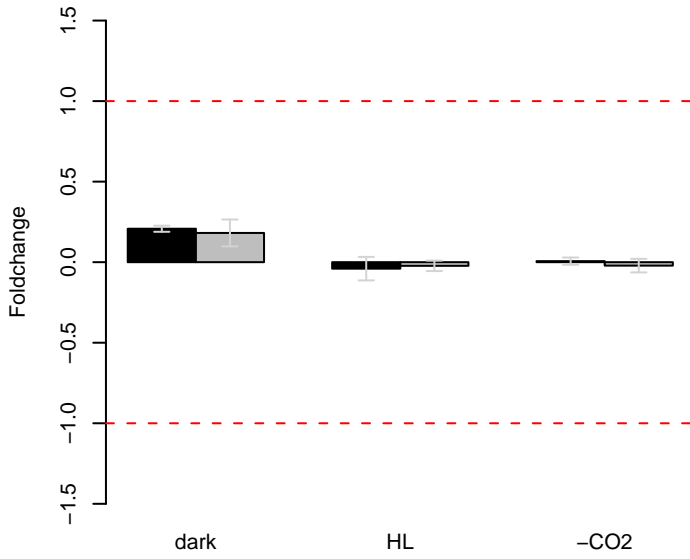
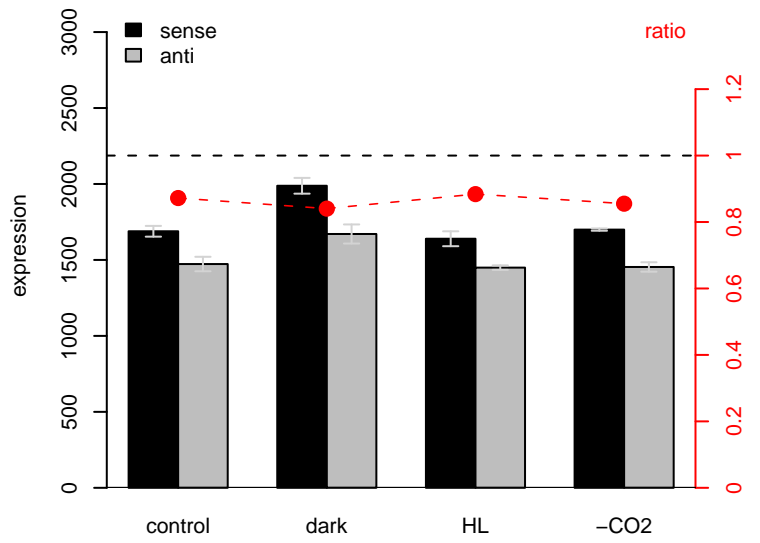
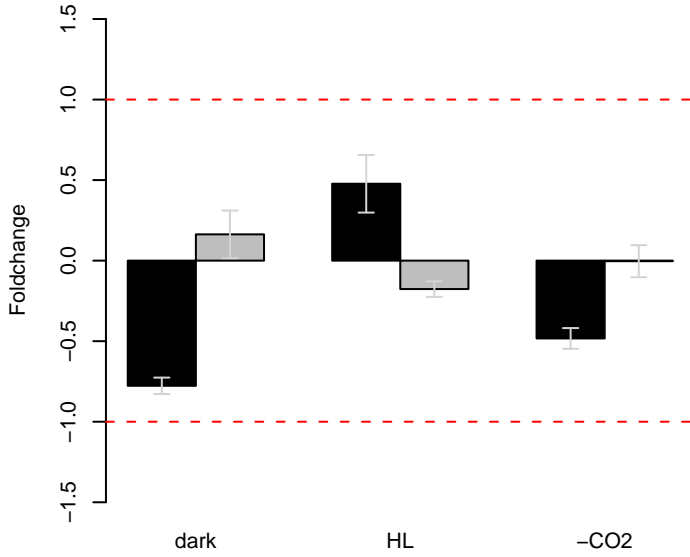
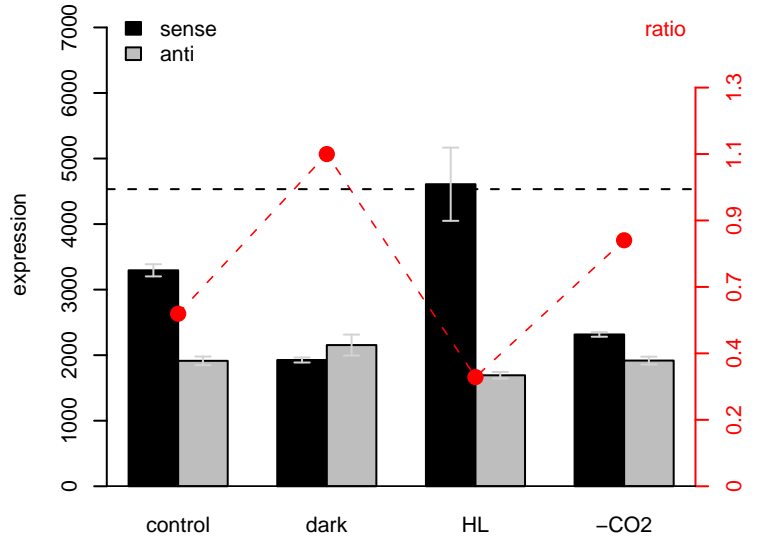
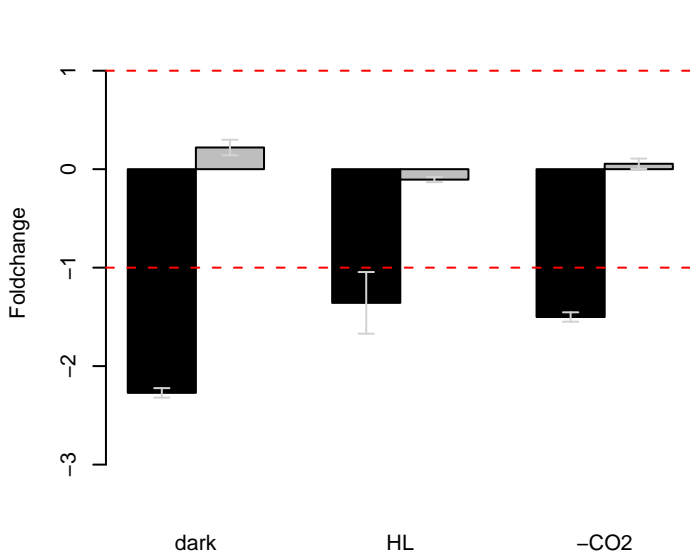
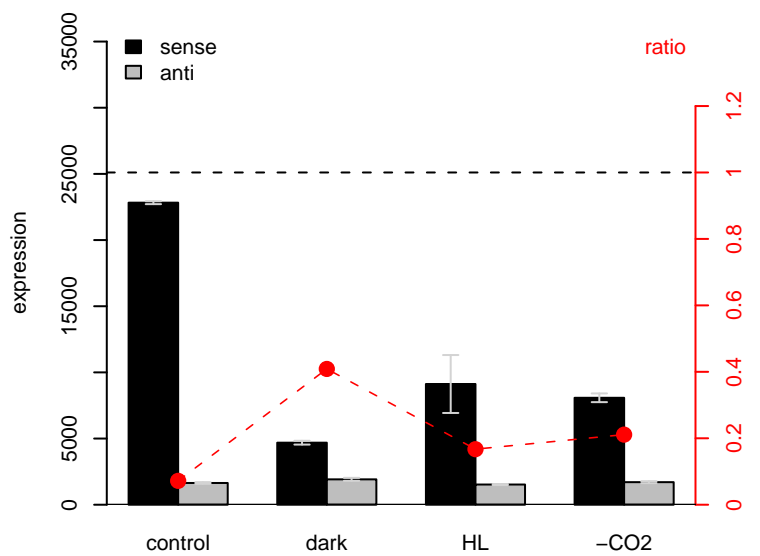


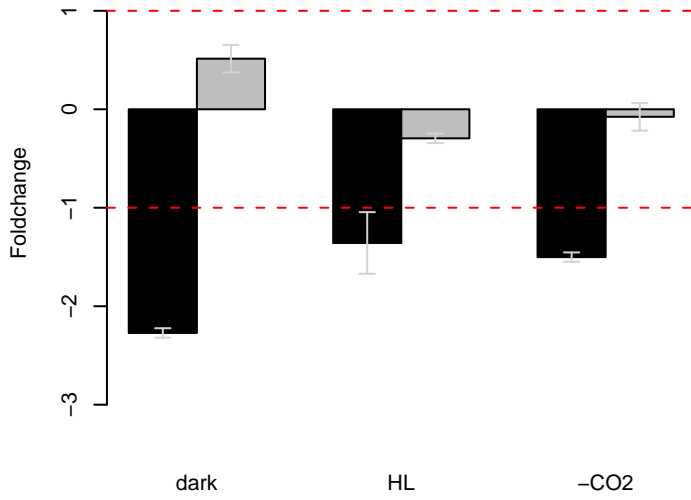
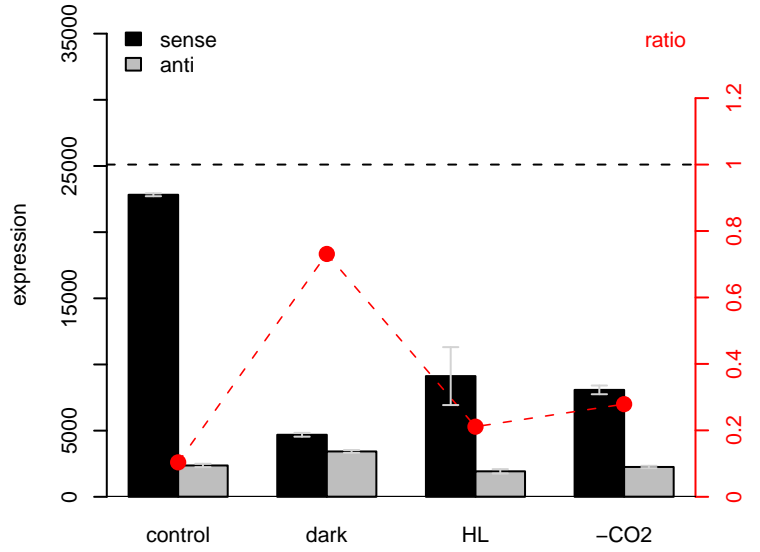
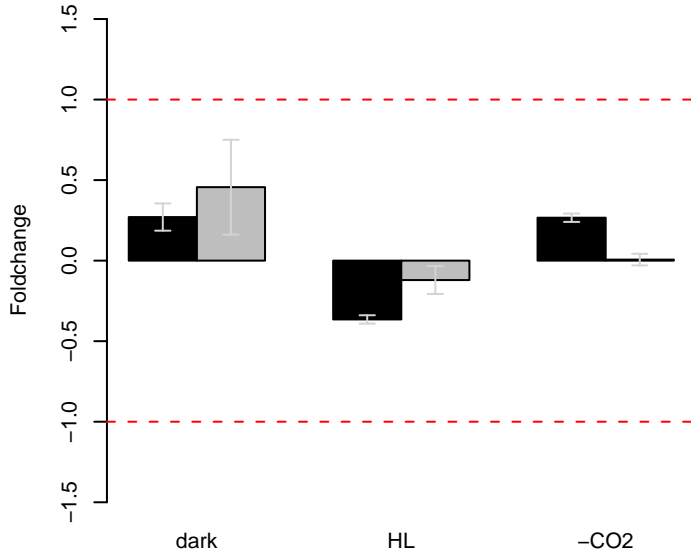
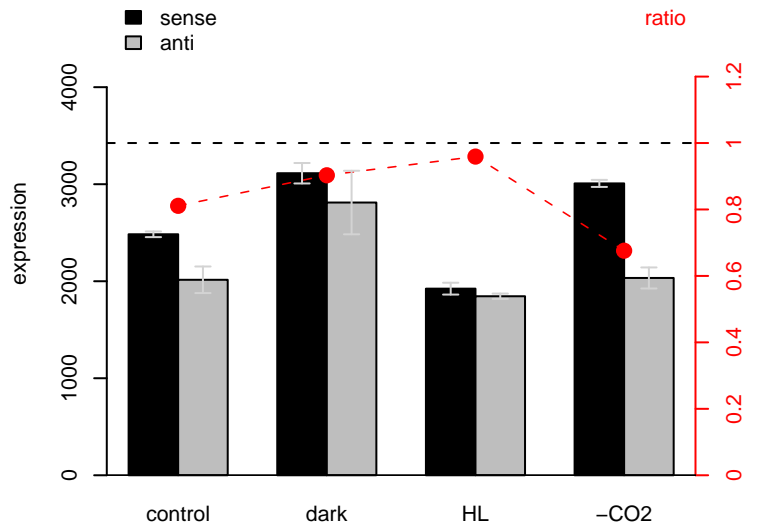
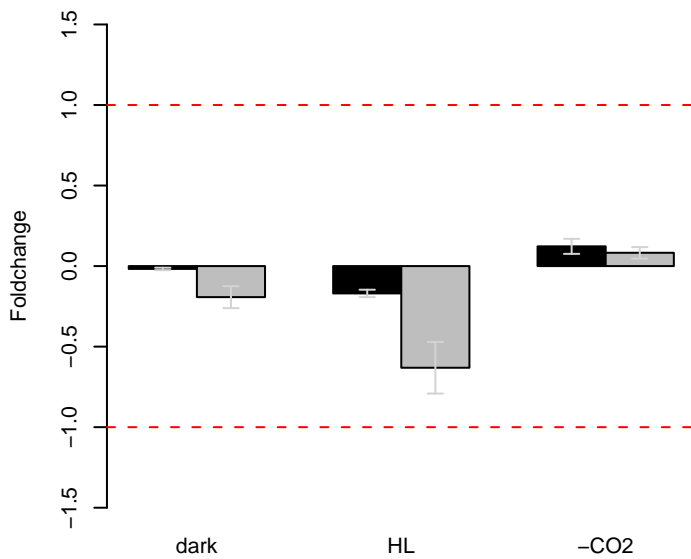
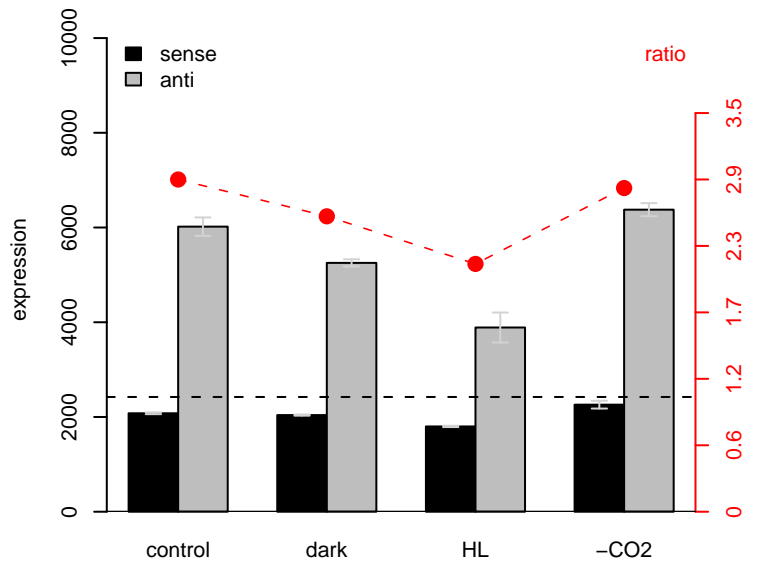
**slr1759**

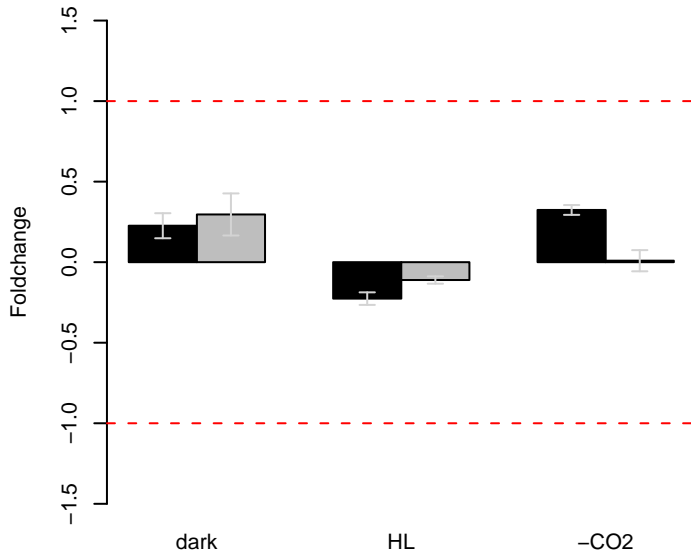
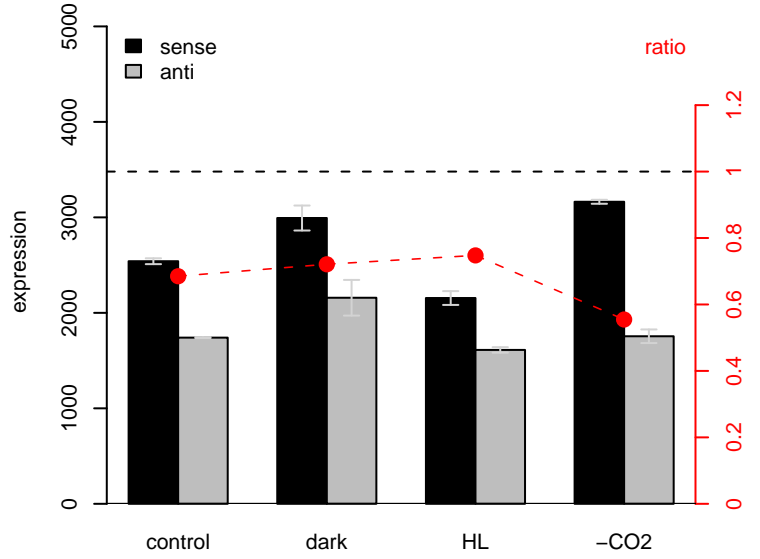
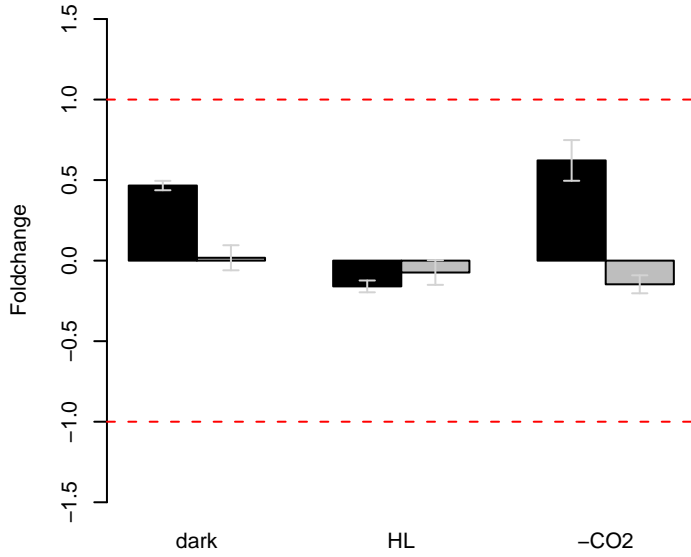
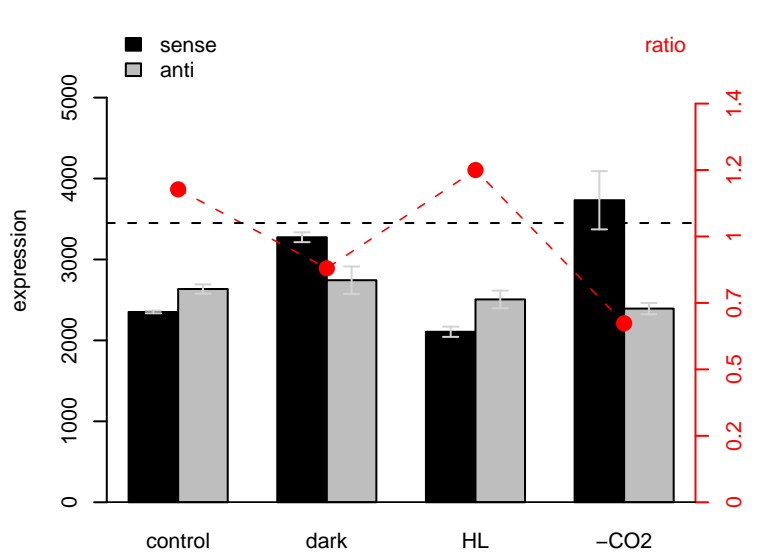
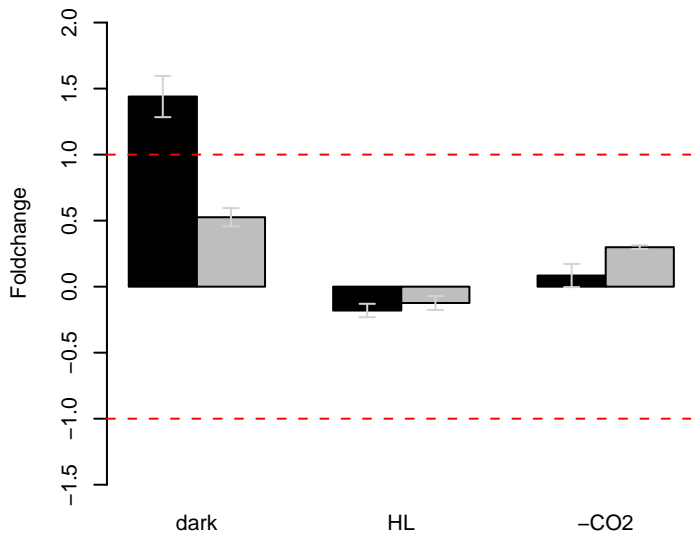
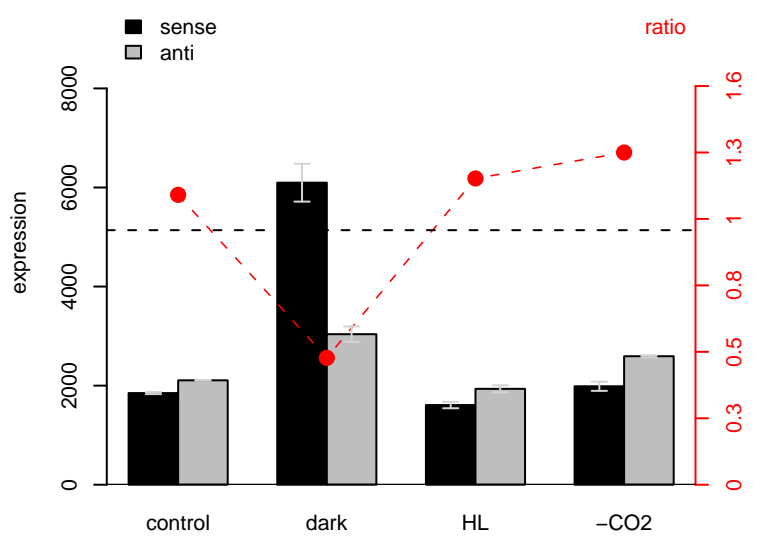


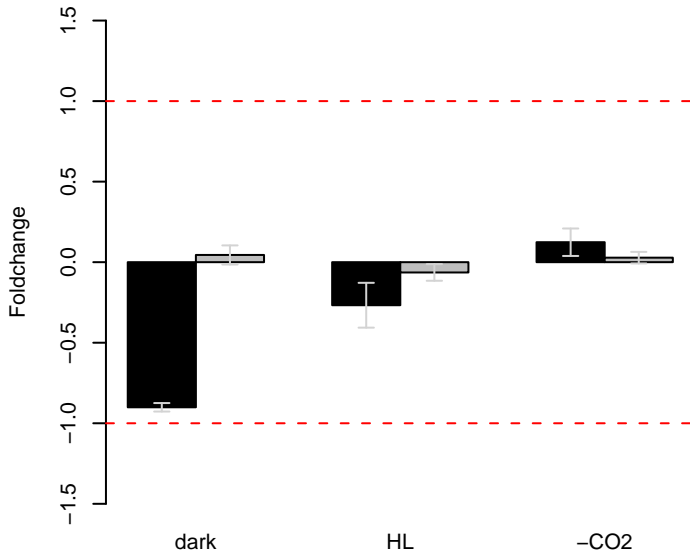
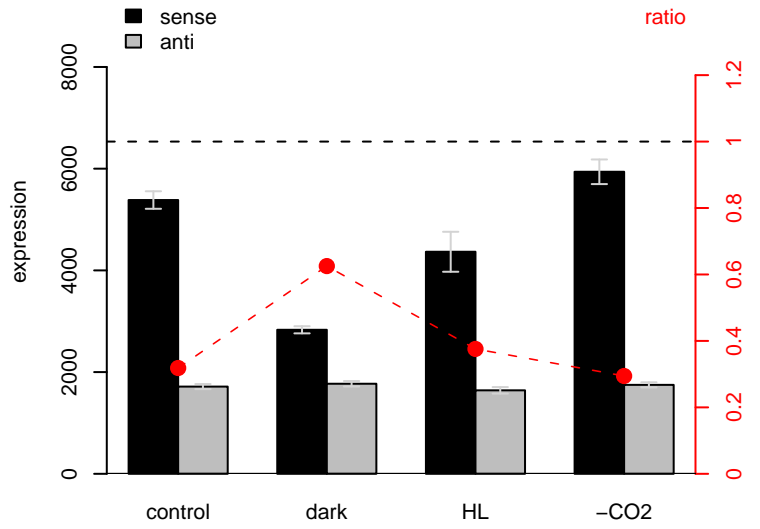
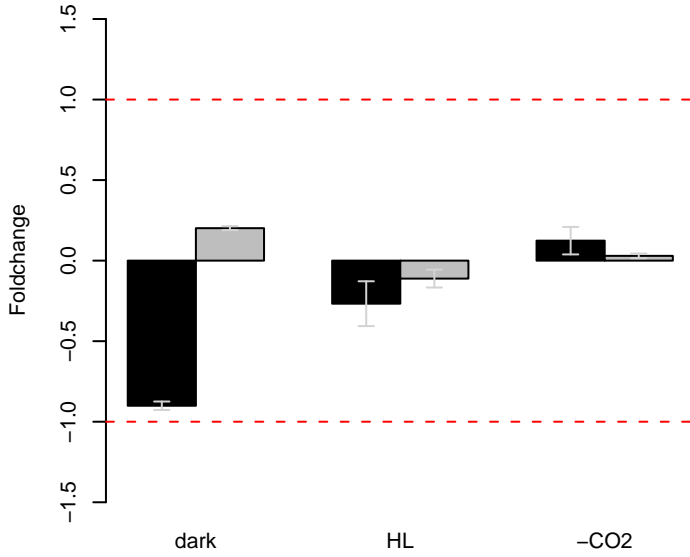
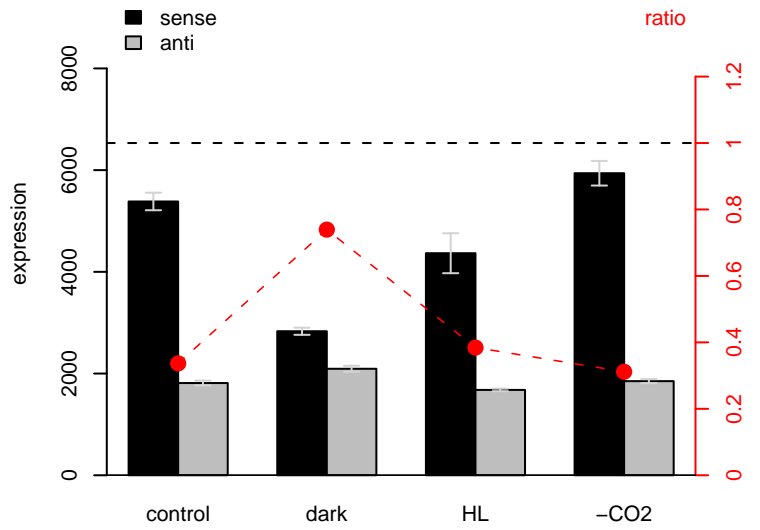
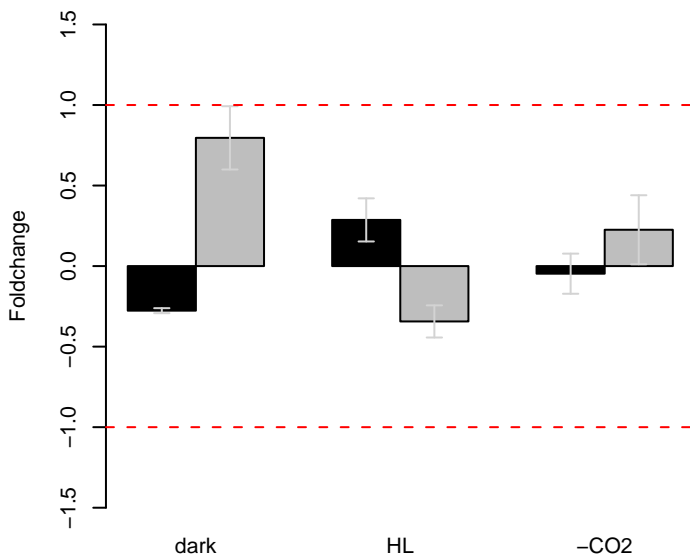
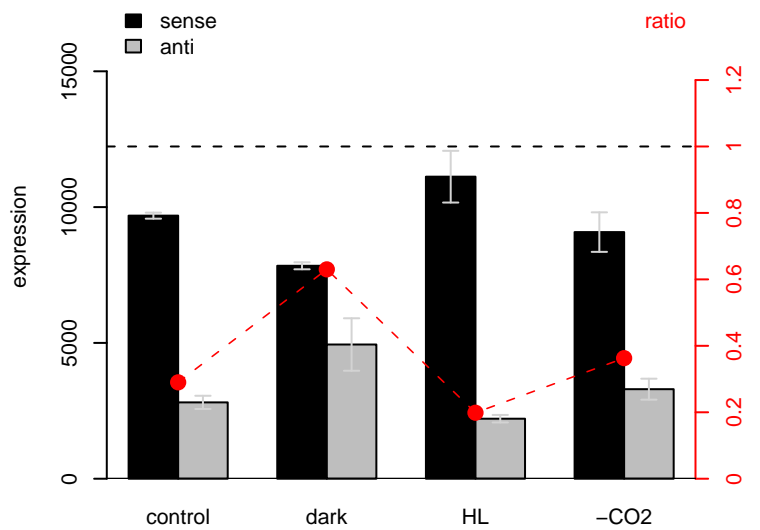
**genome\_742**



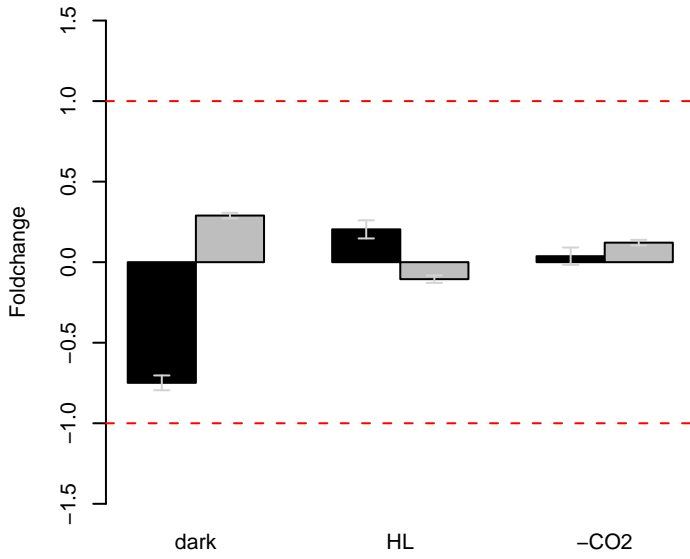
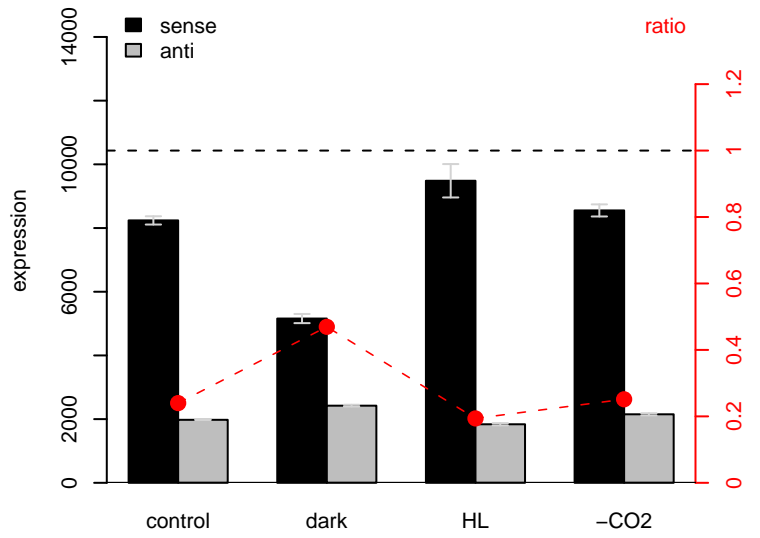
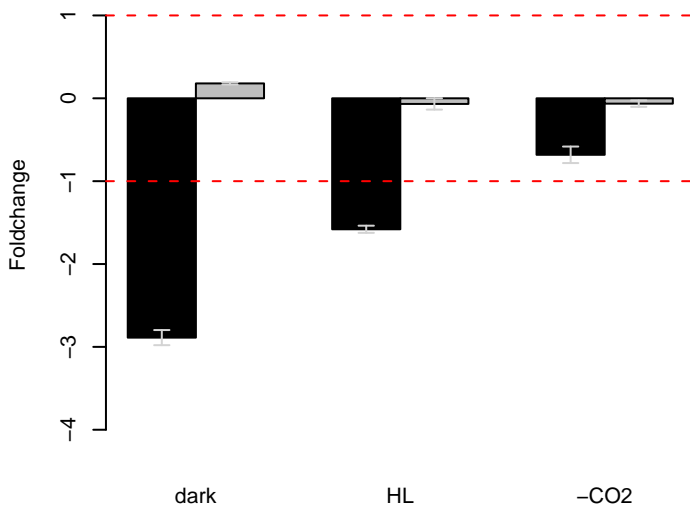
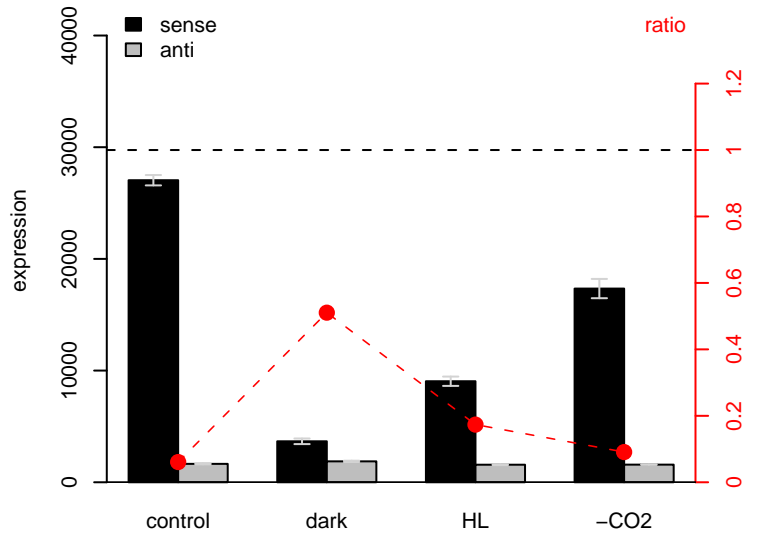
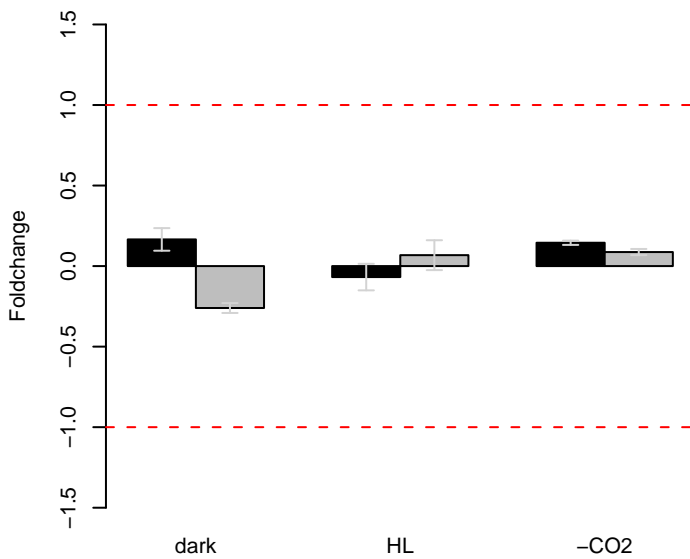
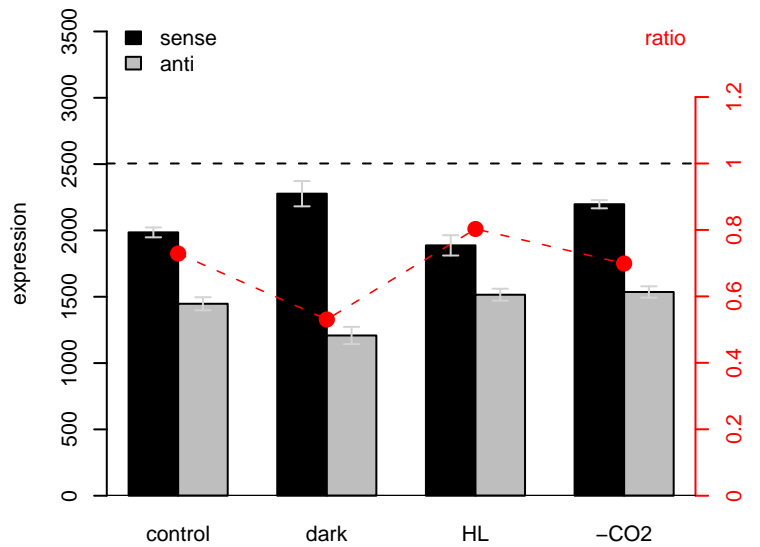
**slr1759****genome\_742****slr1763****genome\_749****slr11638****genome\_759**

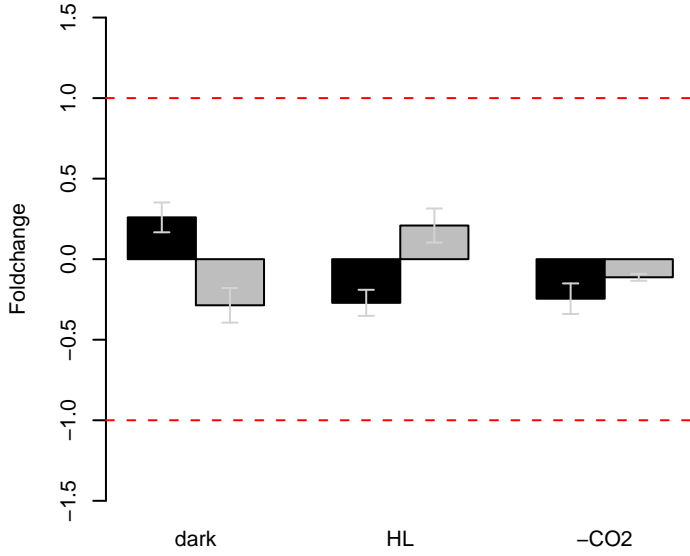
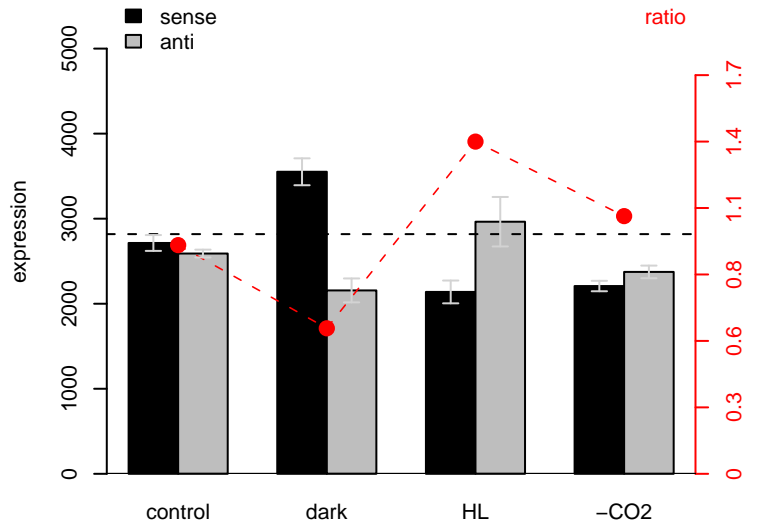
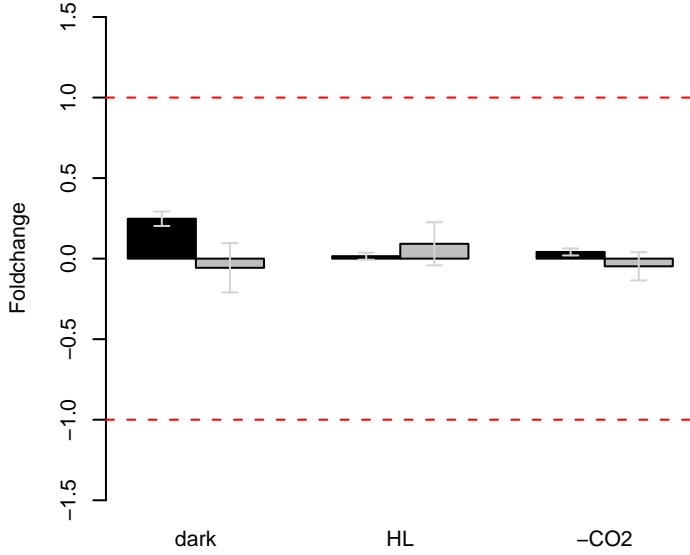
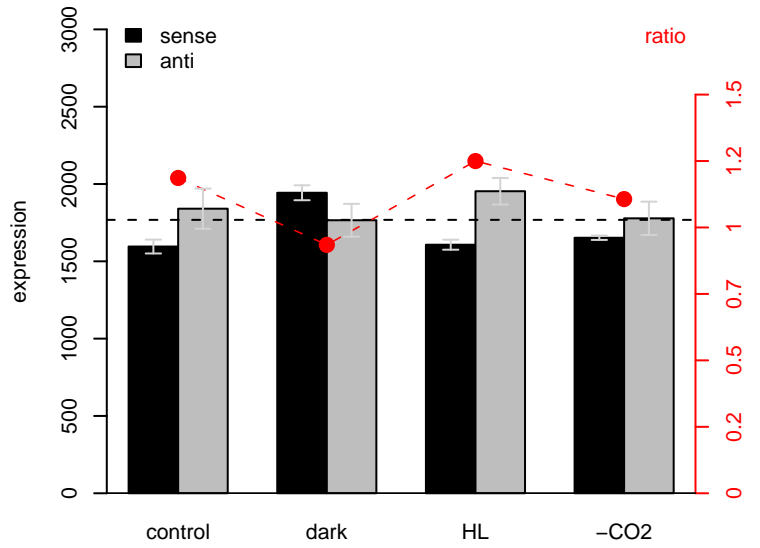
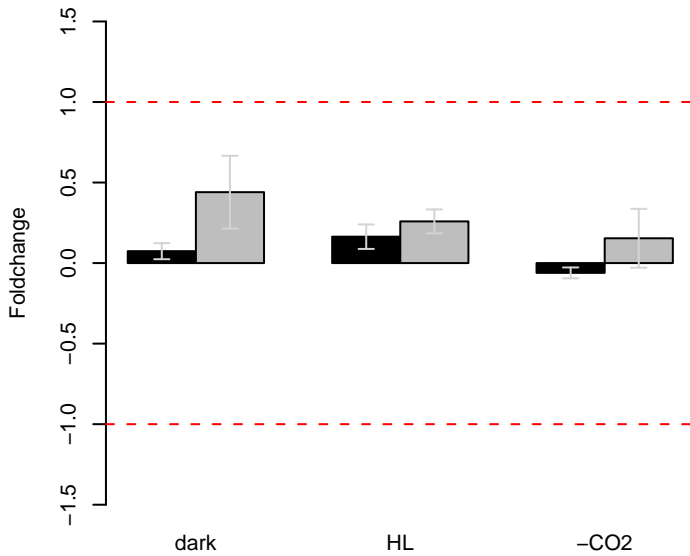
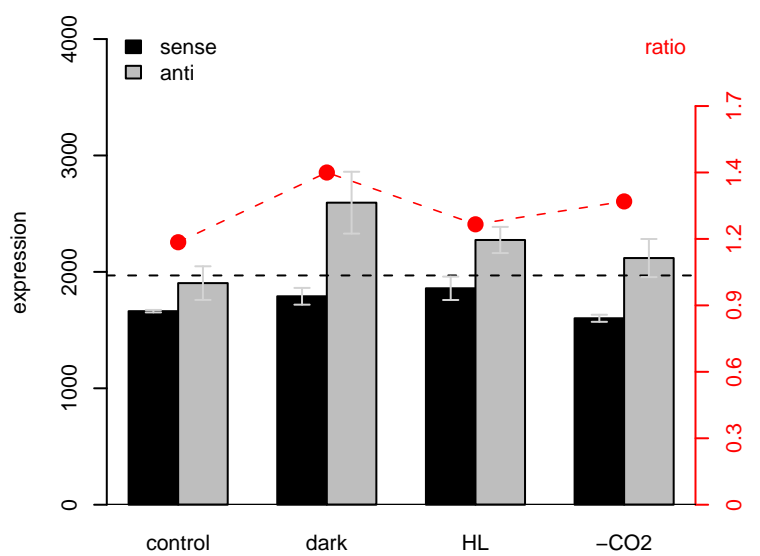
**sll1638****genome\_759****slr1768****genome\_762****slr1771****genome\_767**

**slr1115****genome\_76****slr1752****genome\_773****ssr3129****genome\_787**

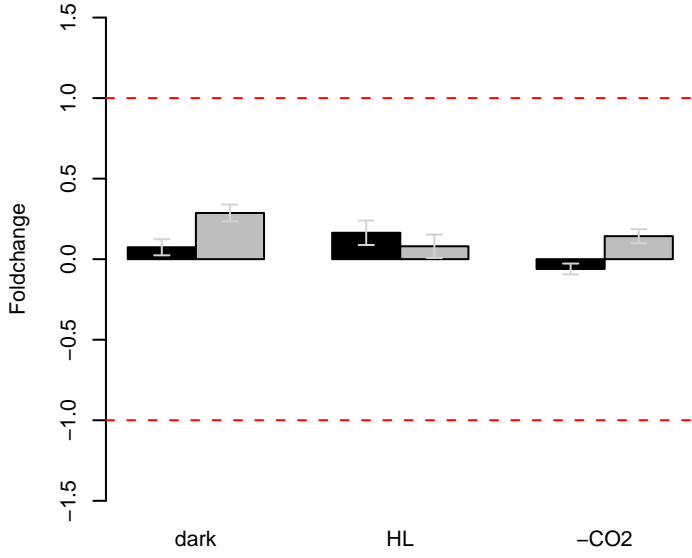
**sll1945****genome\_792****sll1945****genome\_792****rub(slr2033)****genome\_796**



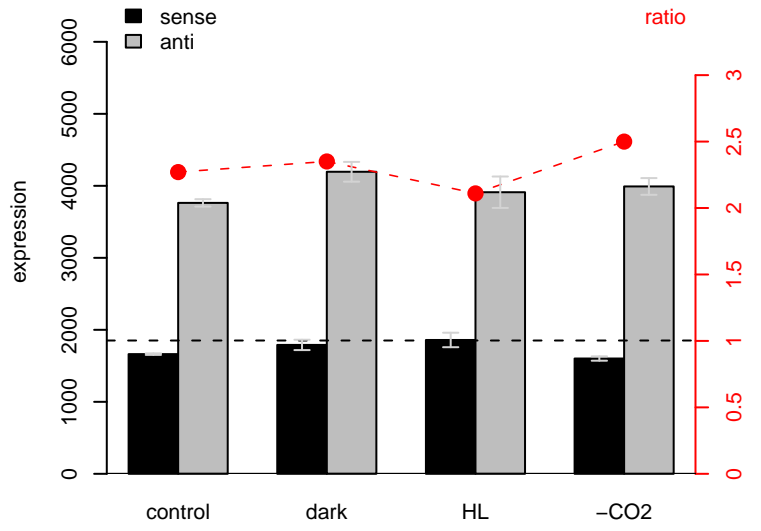
**slr2034****genome\_798****sl11214****genome\_7****sl11064****genome\_81**

**slr1682****genome\_2837****slr2038****genome\_810****gyrA(sll1941)****genome\_813**

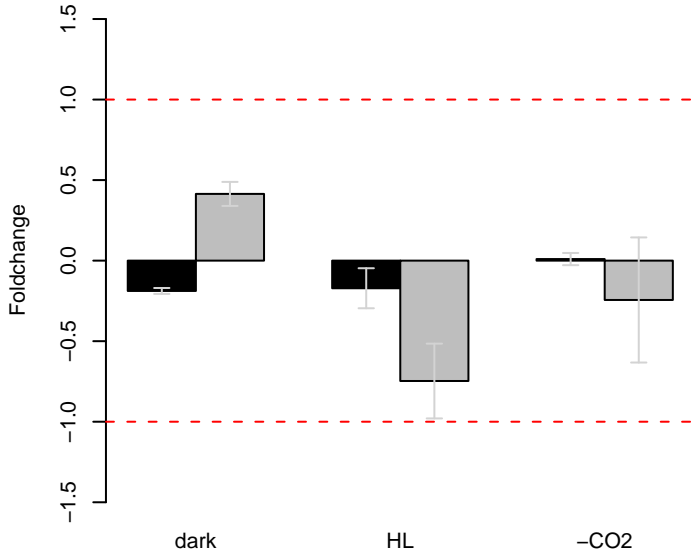
**gyrA(sll1941)**



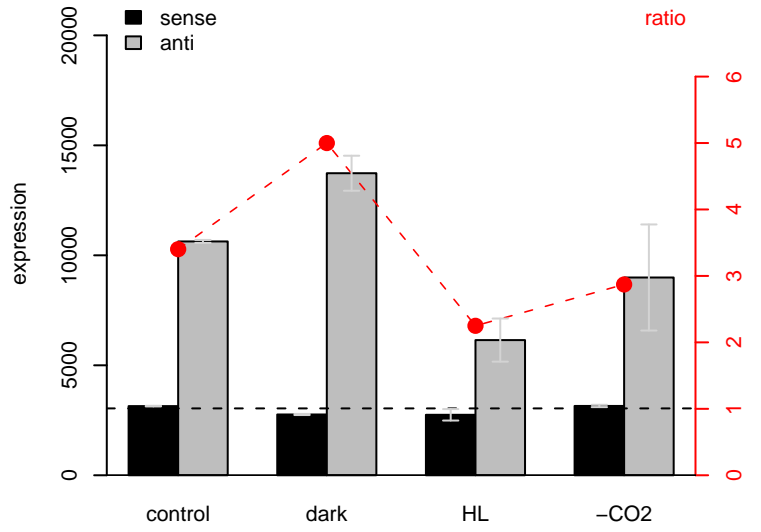
**genome\_813**



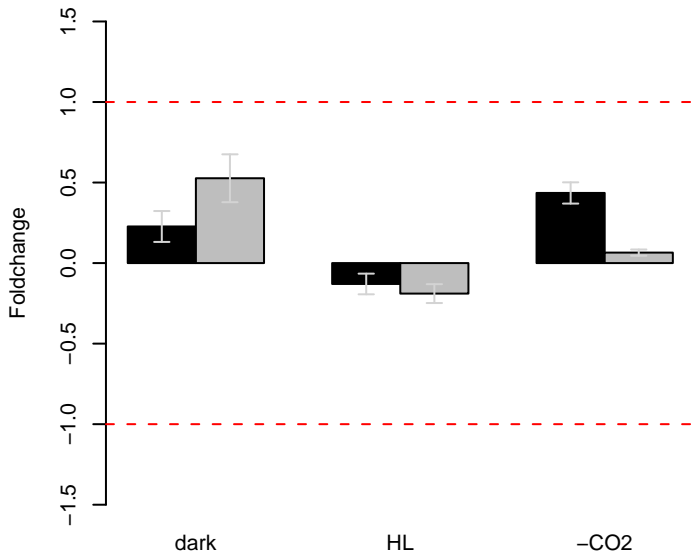
**sll1939**



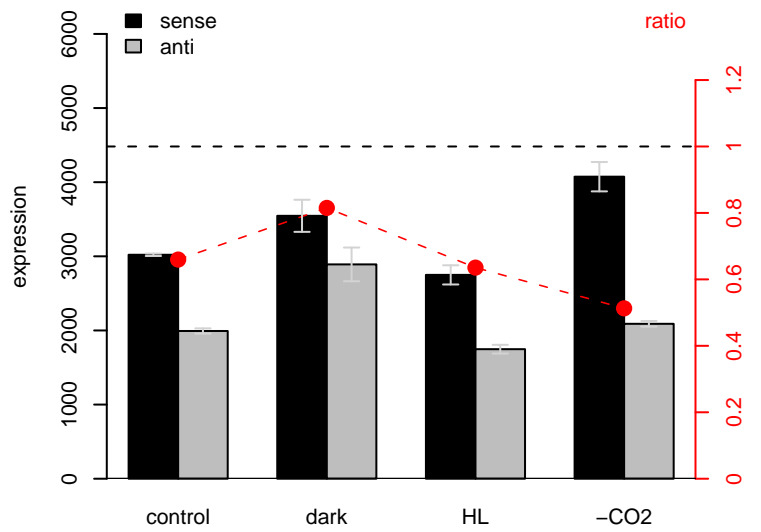
**genome\_818**



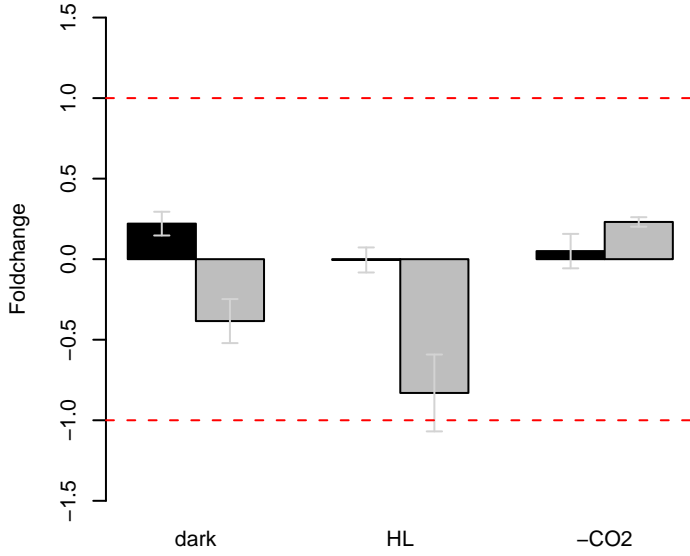
**sll1938**



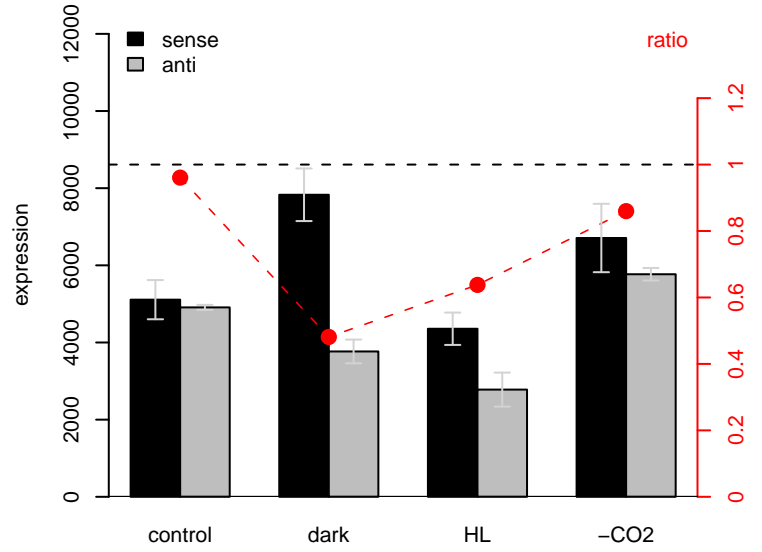
**genome\_821**



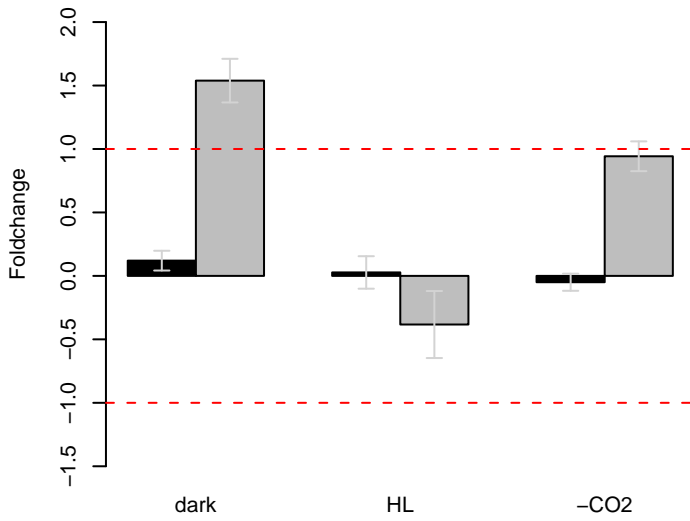
**slr2045**



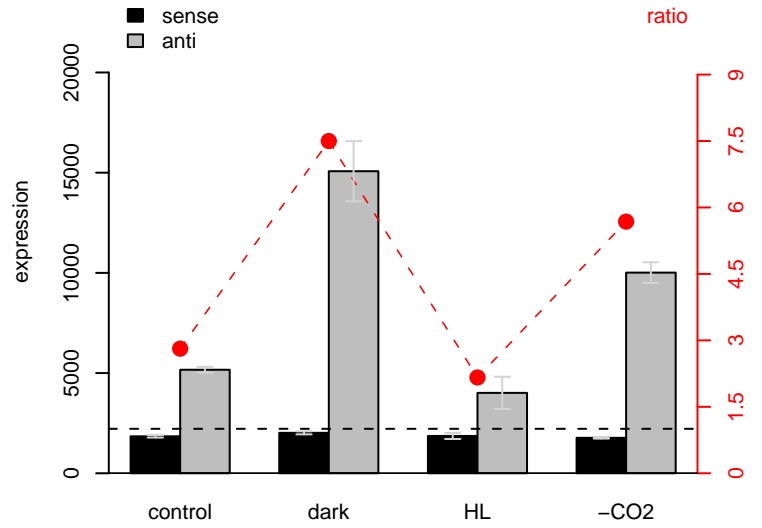
**genome\_827**



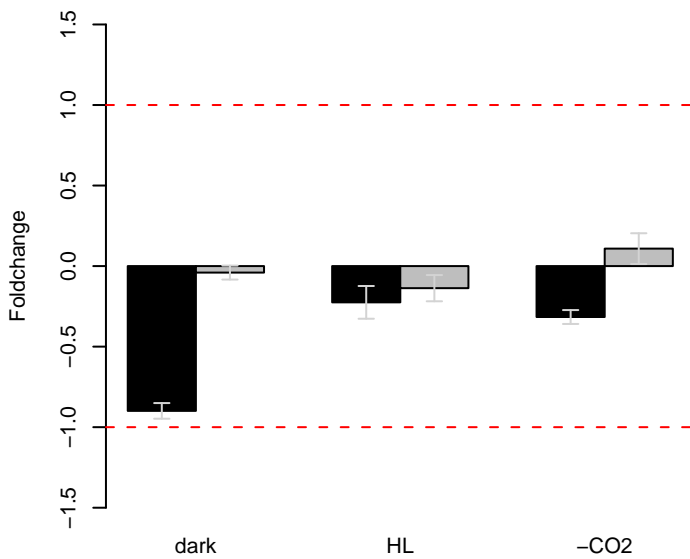
**rffM(slr1118)**



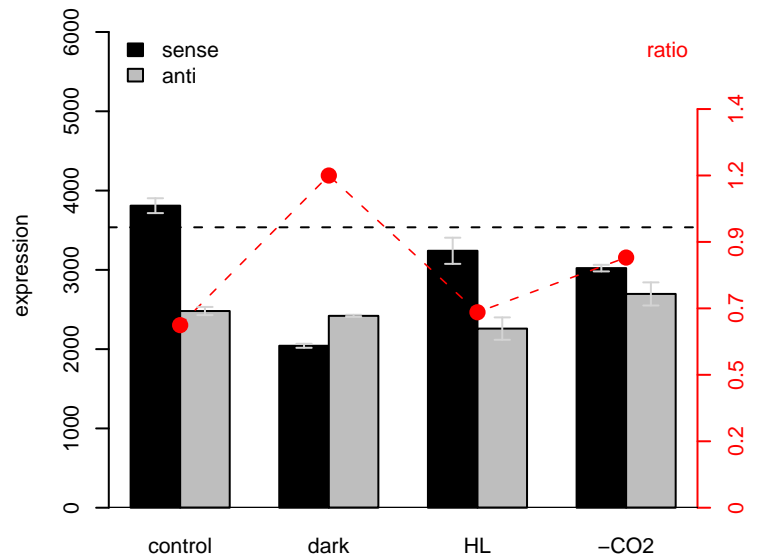
**genome\_82**

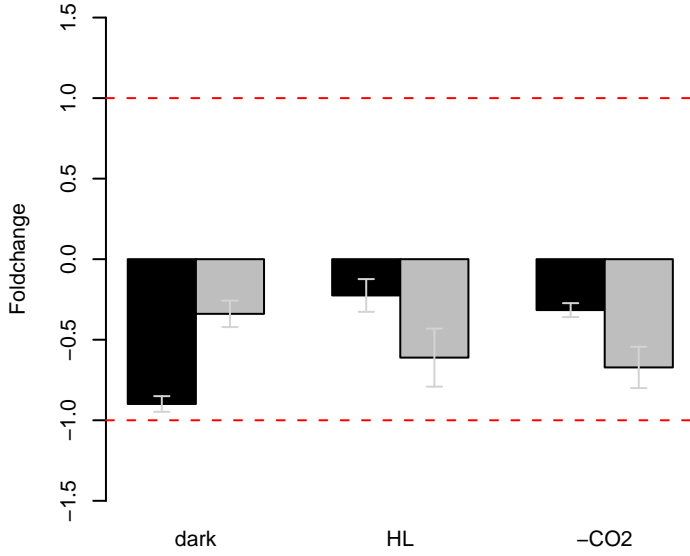
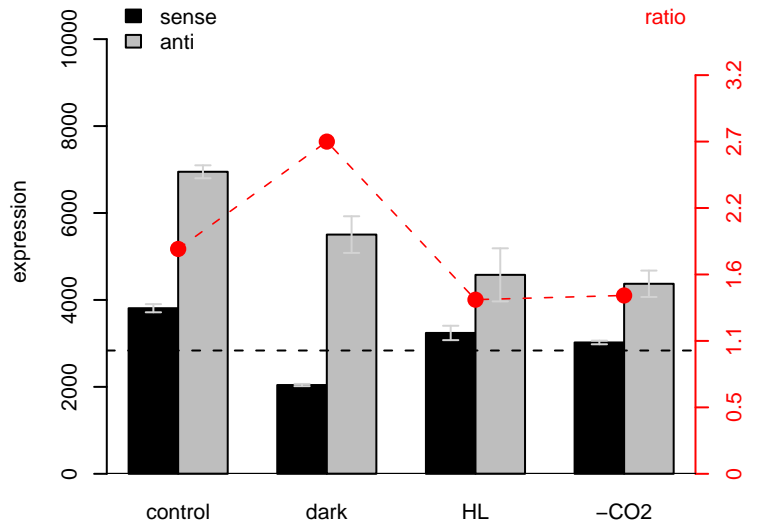
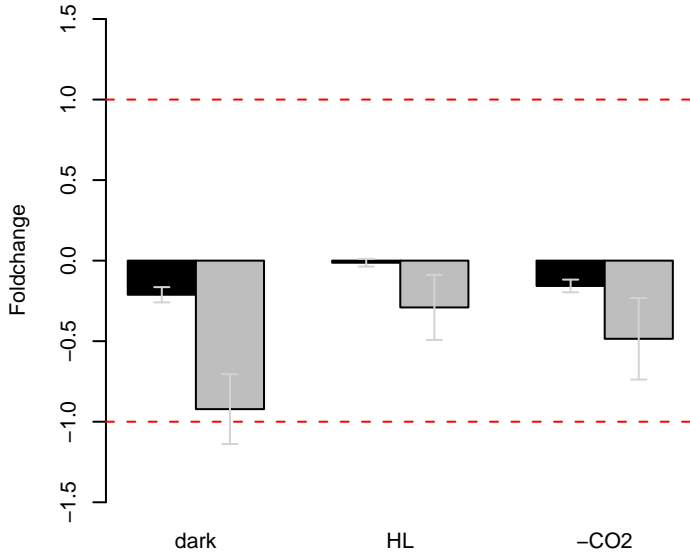
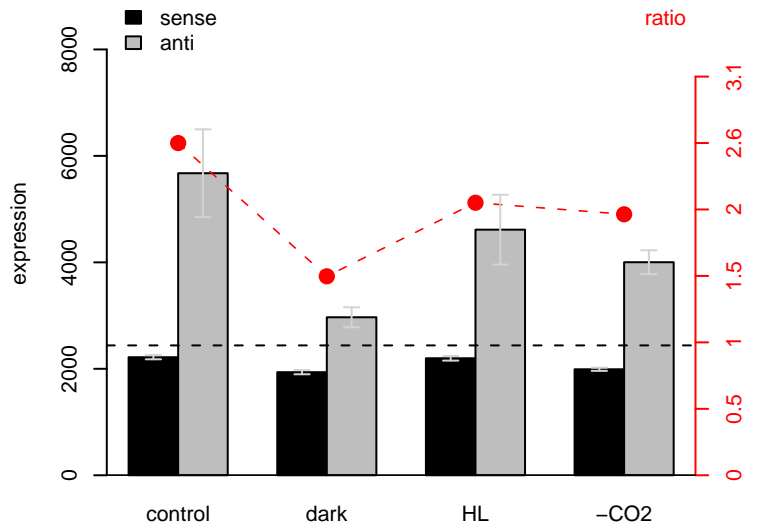
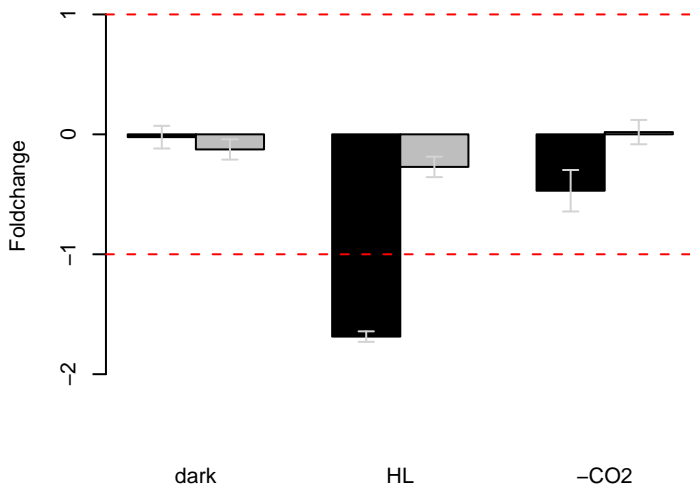
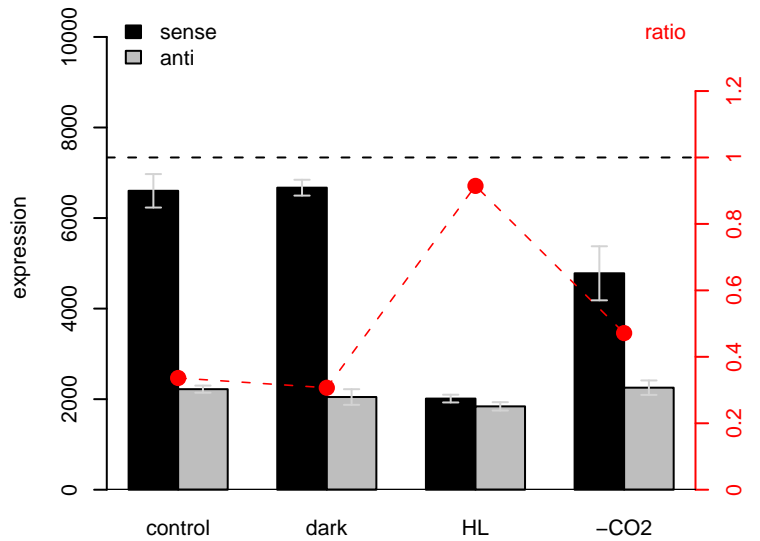


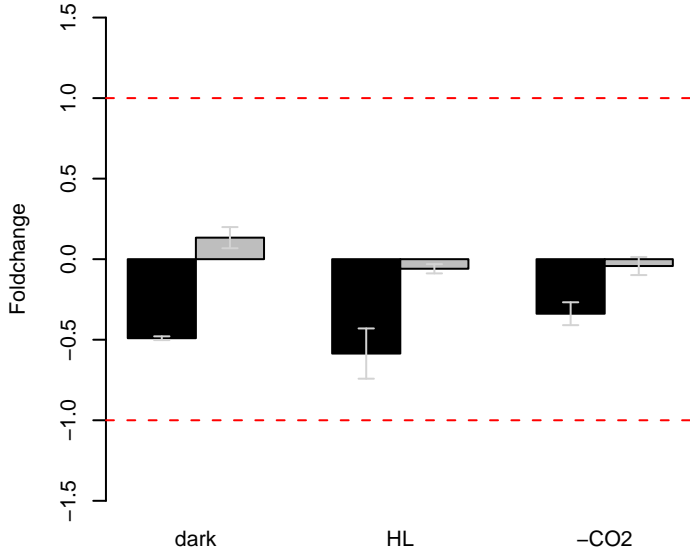
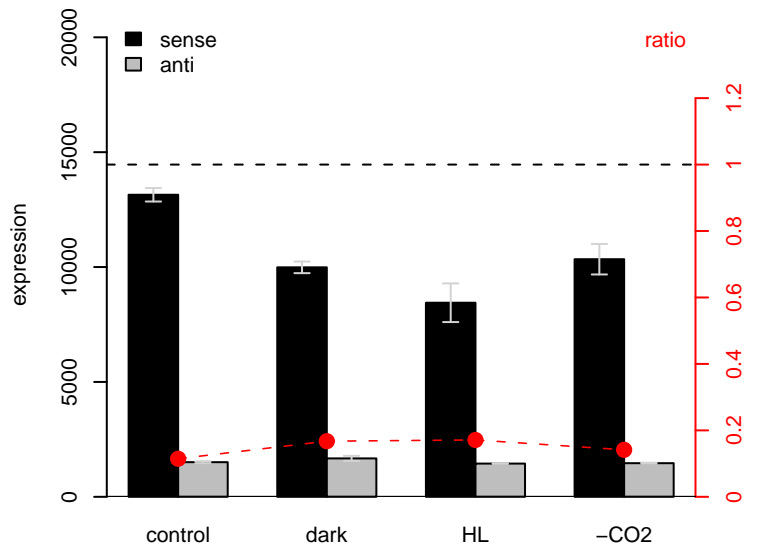
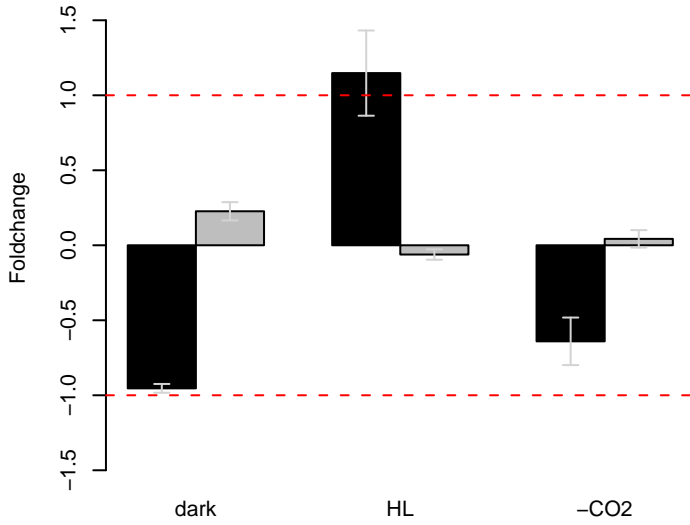
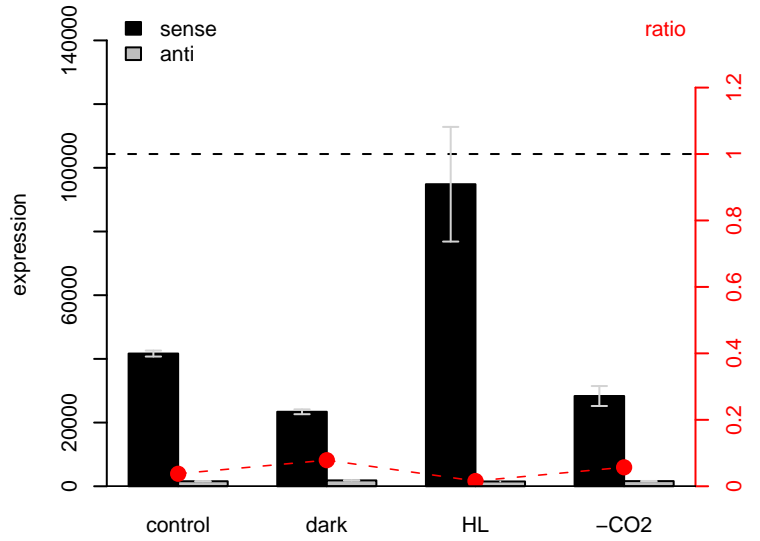
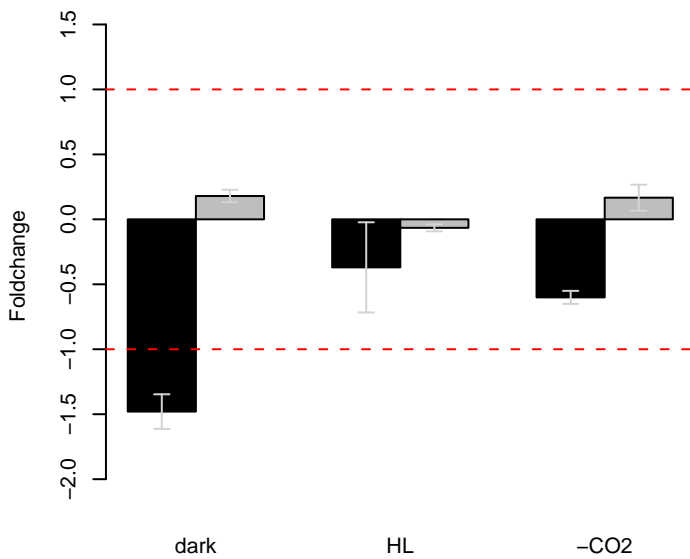
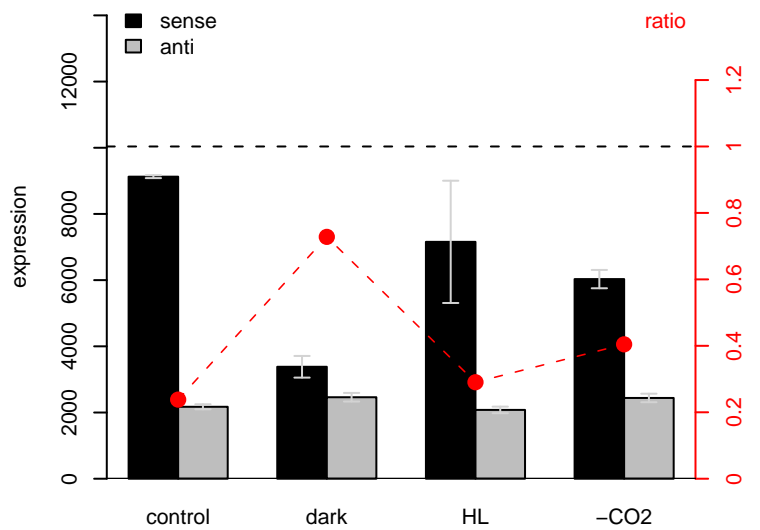
**slr2046**

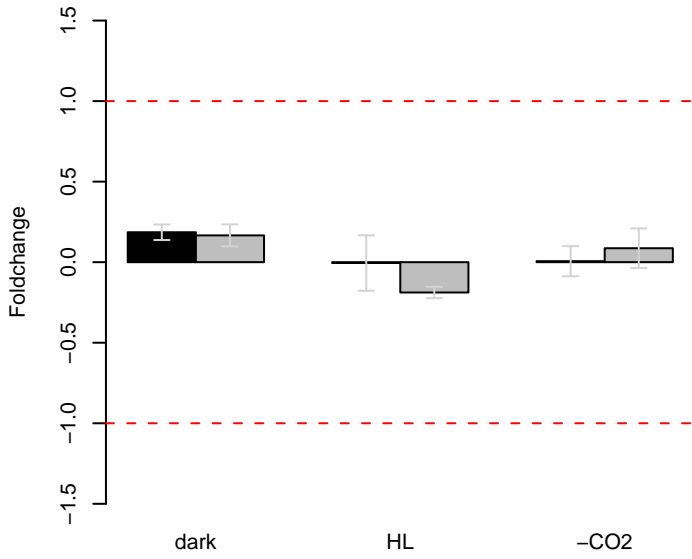
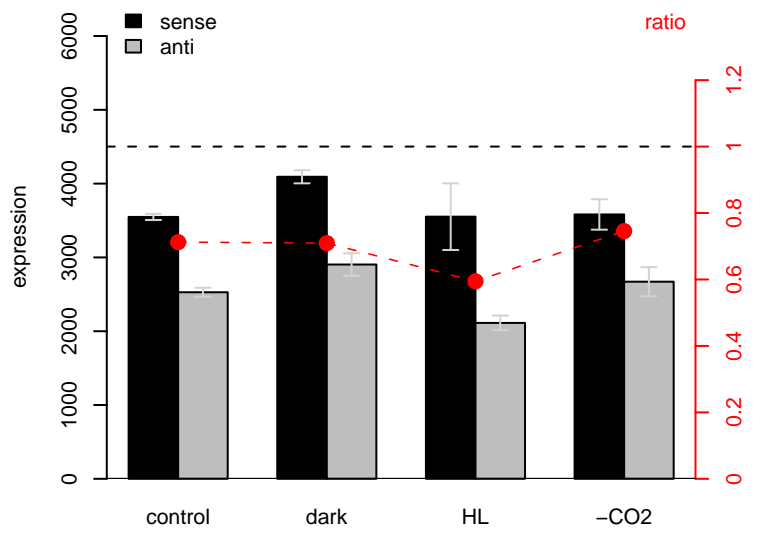
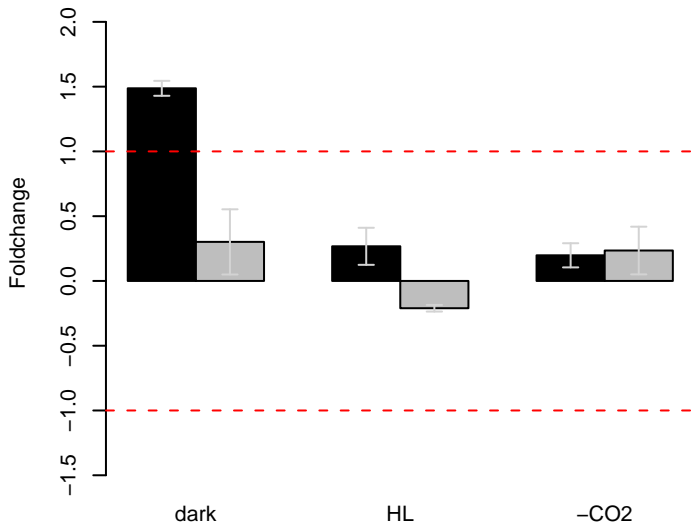
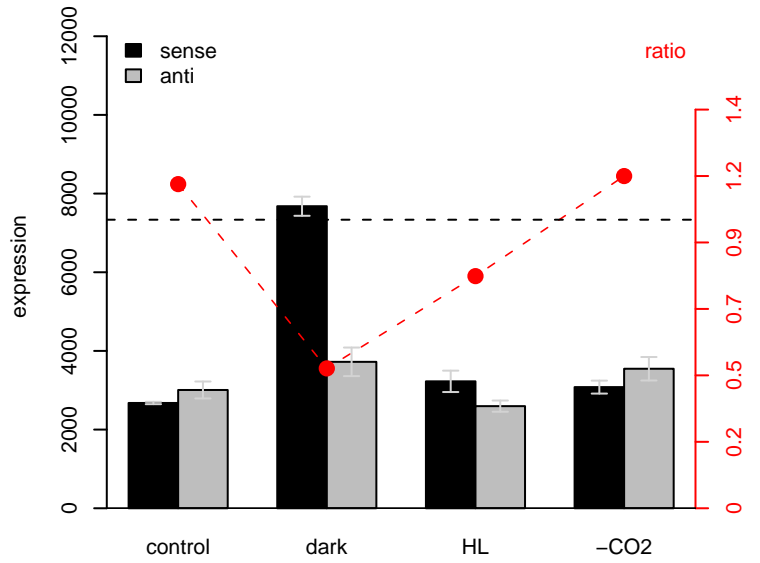
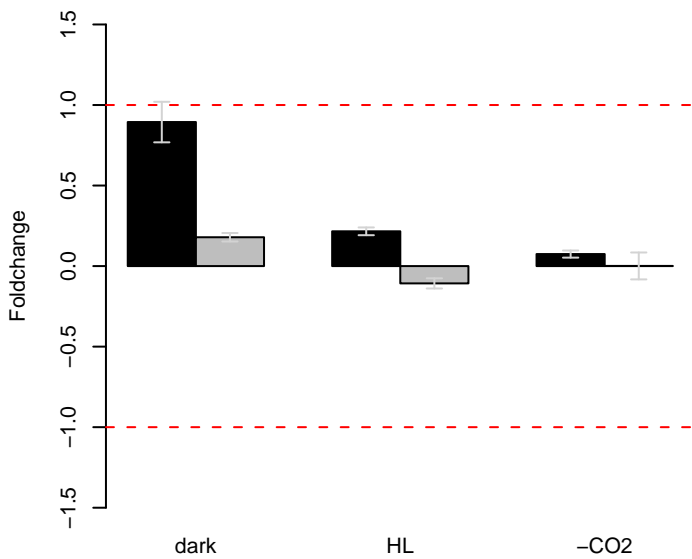
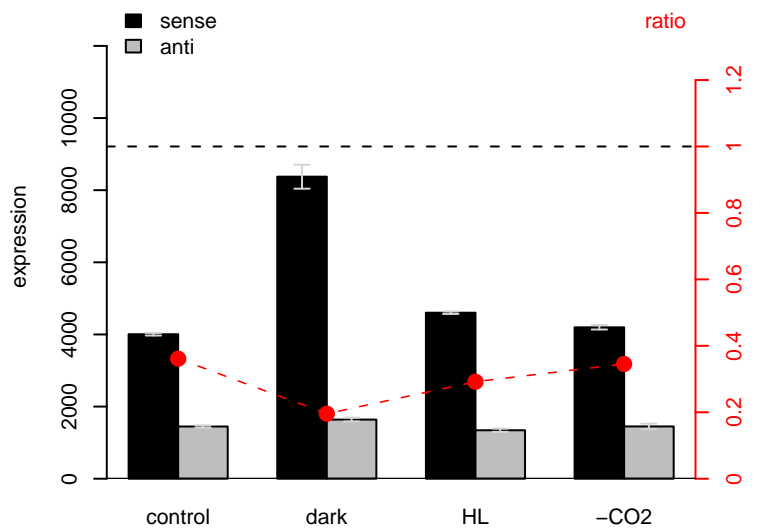


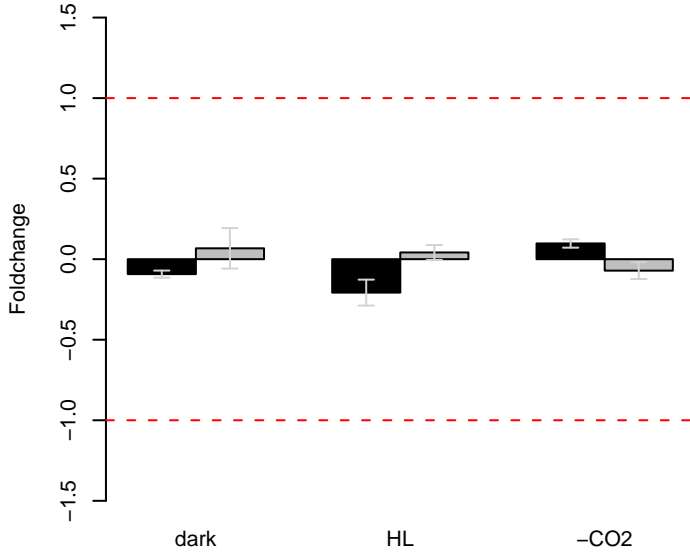
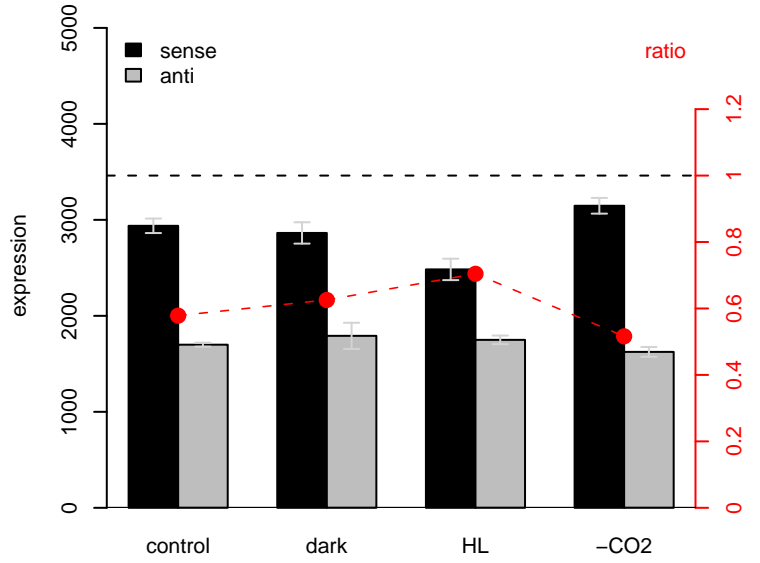
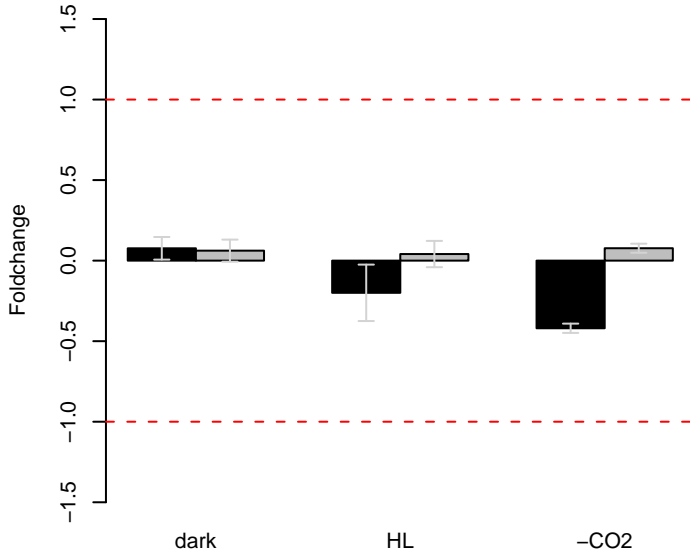
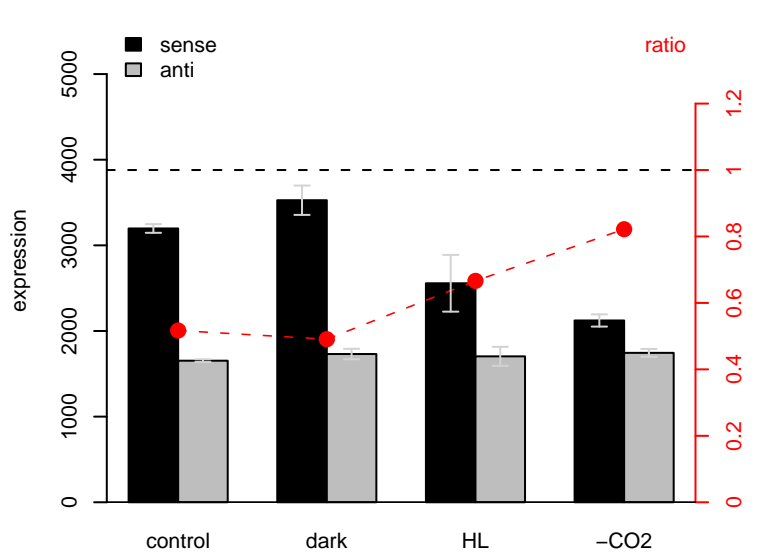
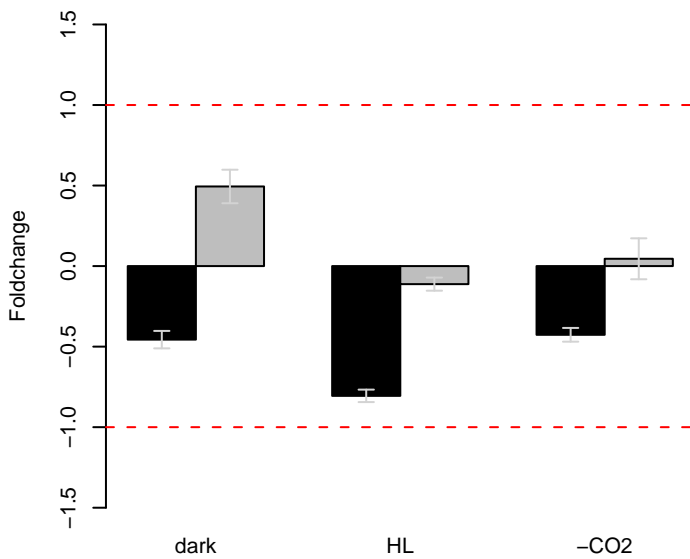
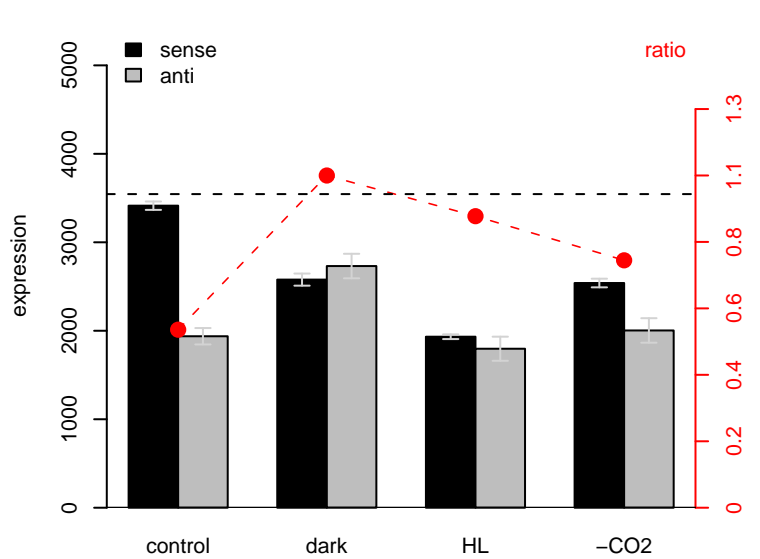
**genome\_830**



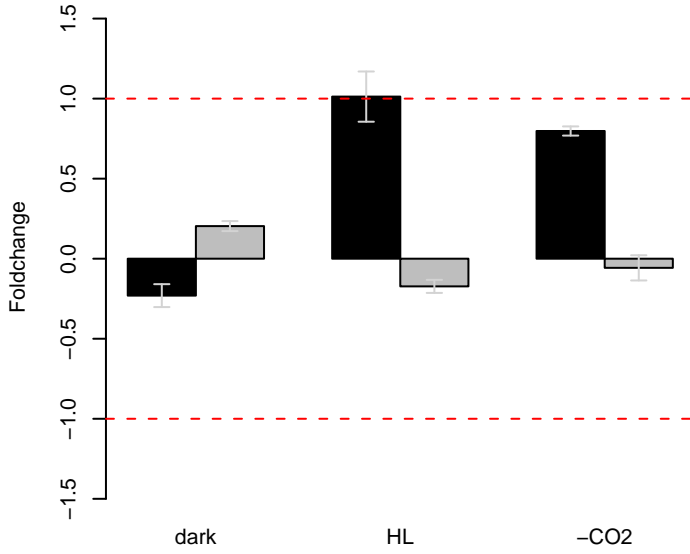
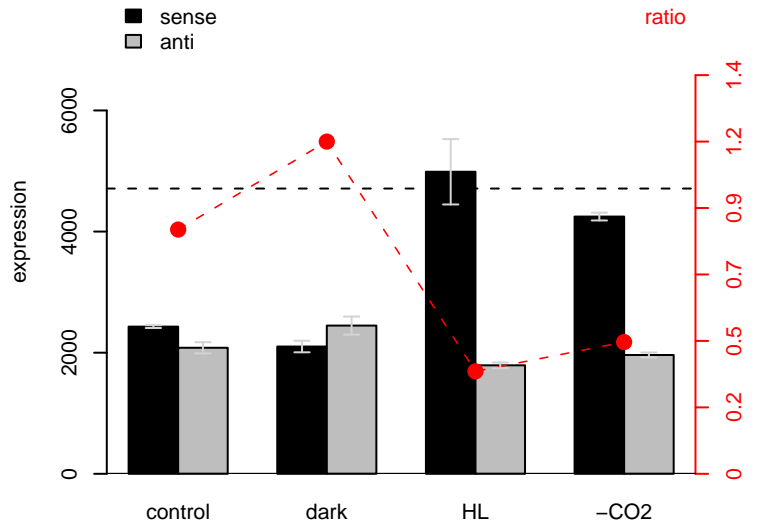
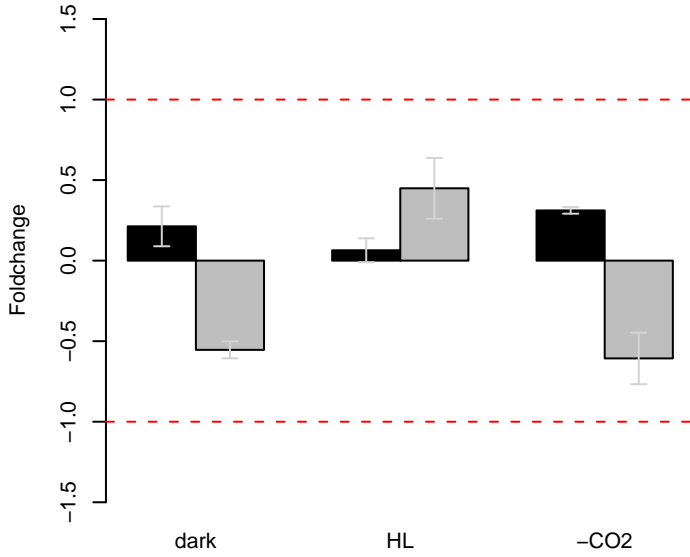
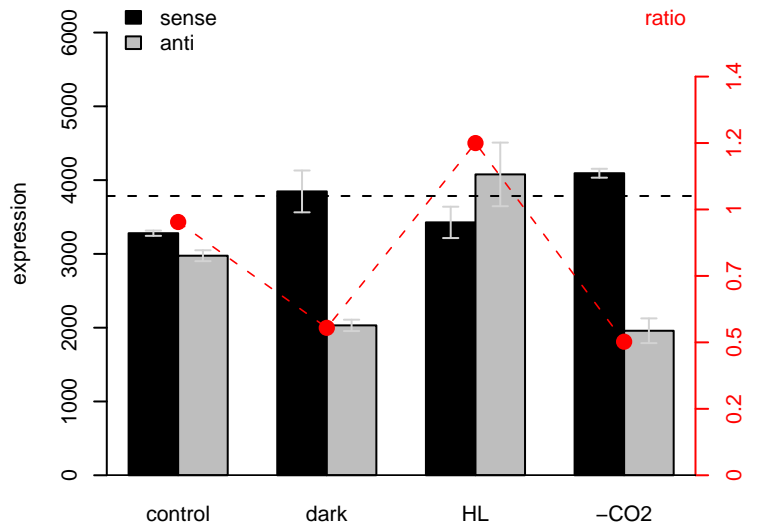
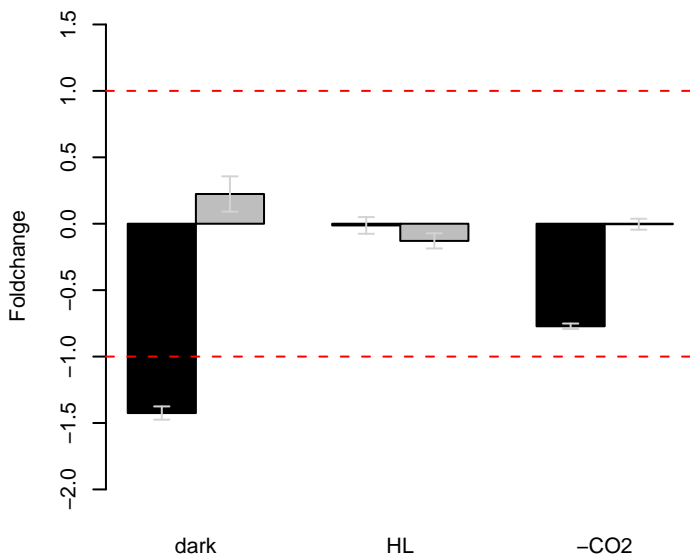
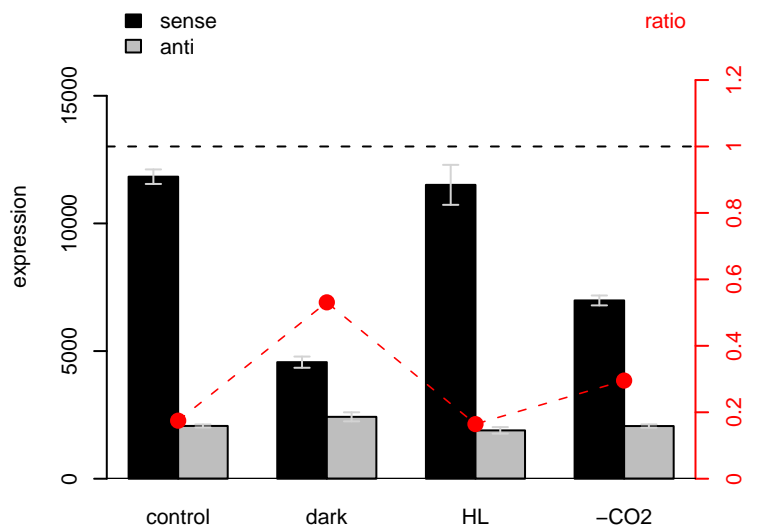
**slr2046****genome\_830****slr2048****genome\_835****slr2052****genome\_839**

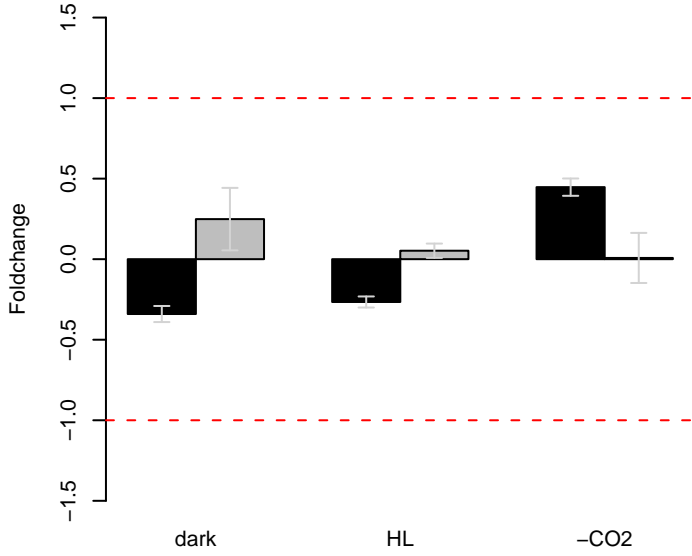
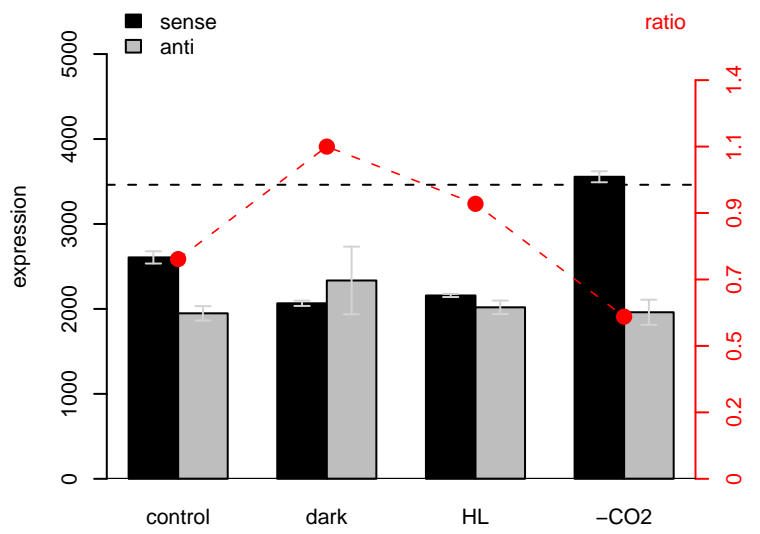
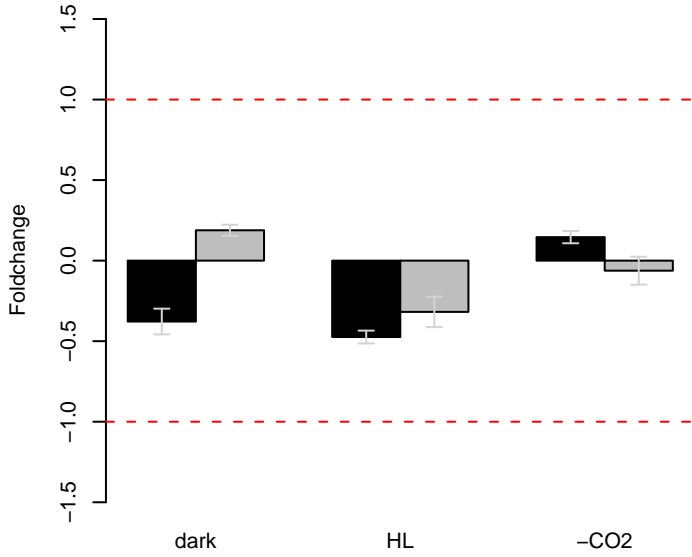
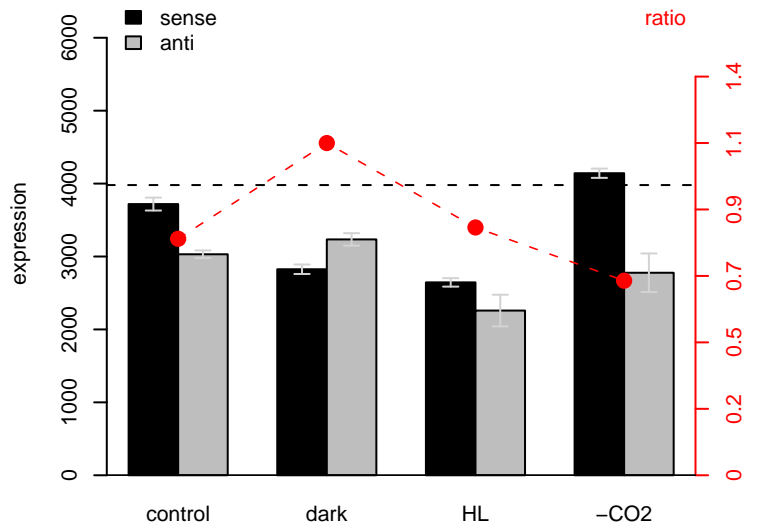
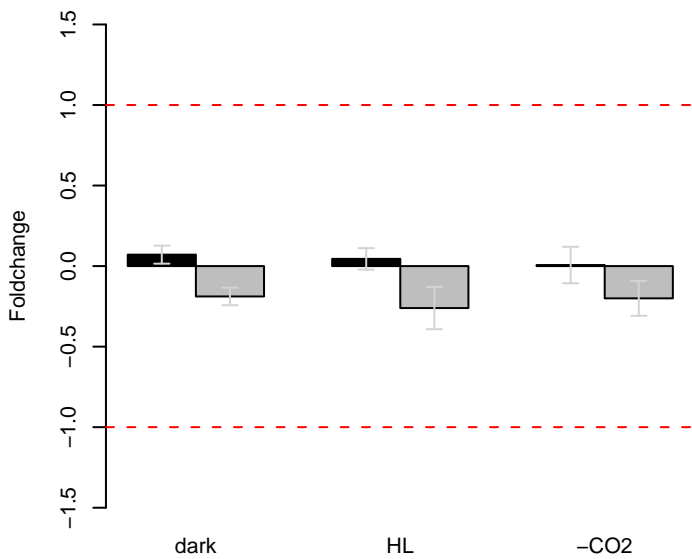
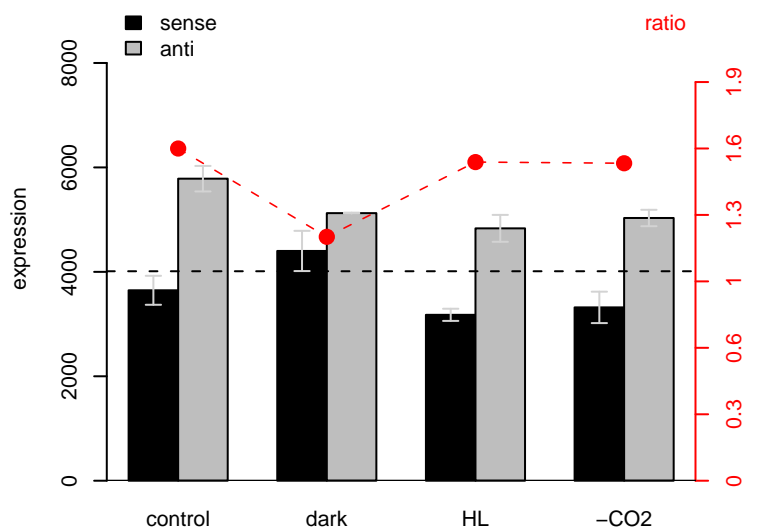
**glyA(sll1931)****genome\_845****sll1908****genome\_855****sll1835****genome\_867**

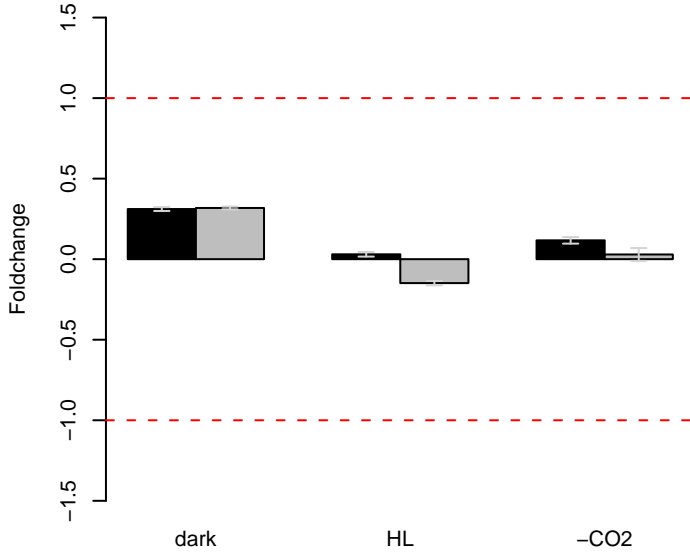
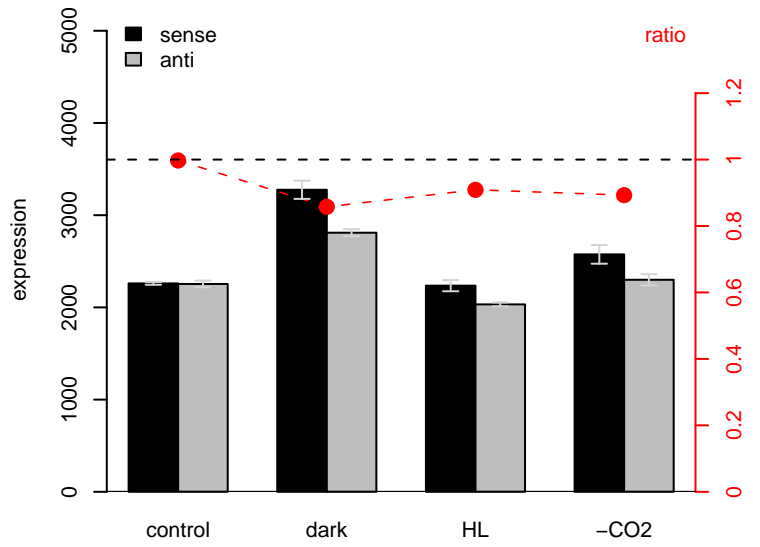
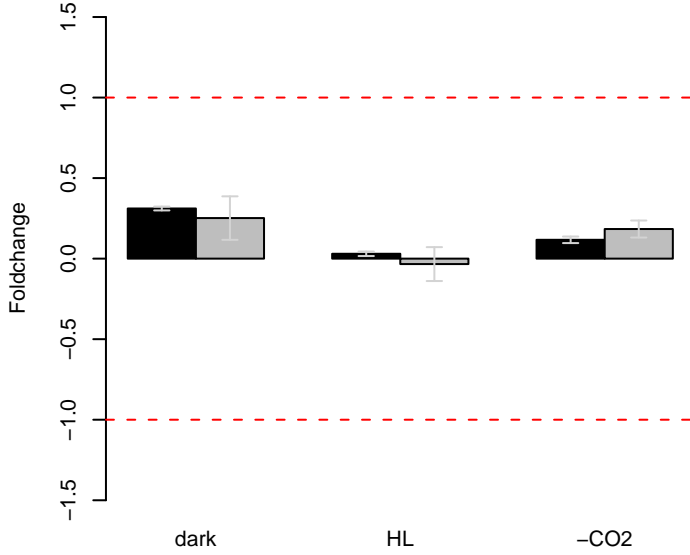
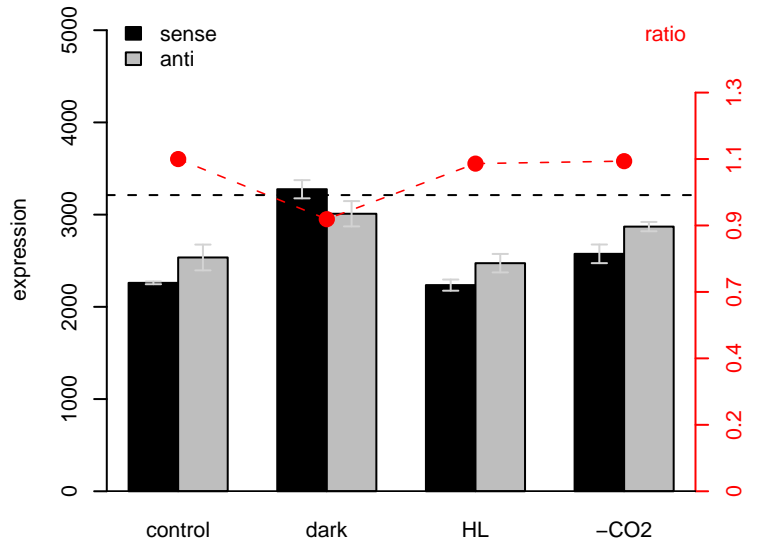
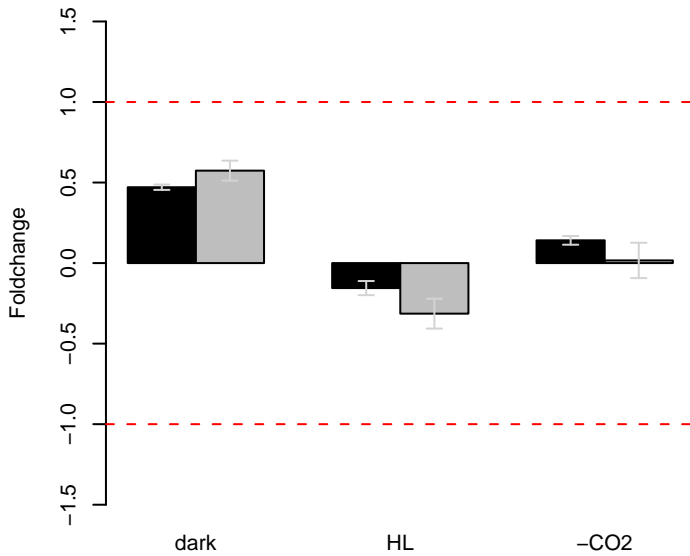
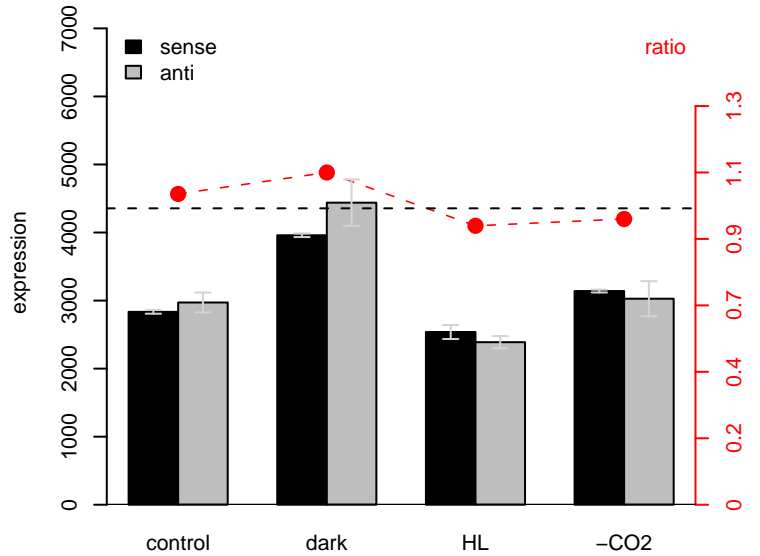
**sll1834****genome\_870****slr1119****genome\_86****slr1916****genome\_874**

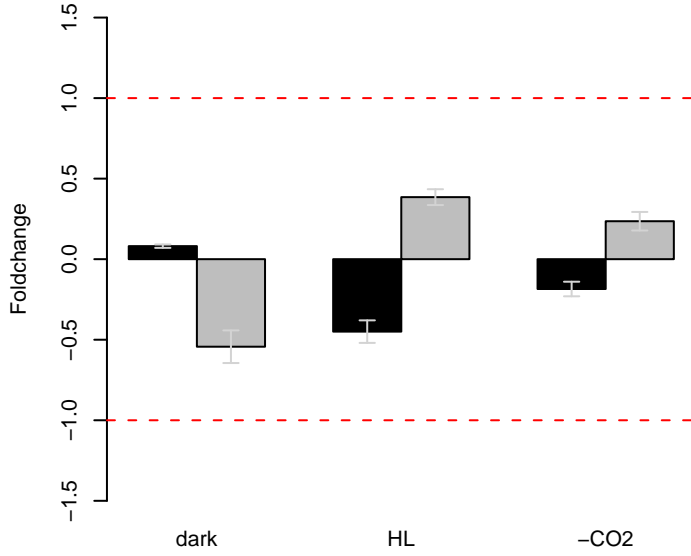
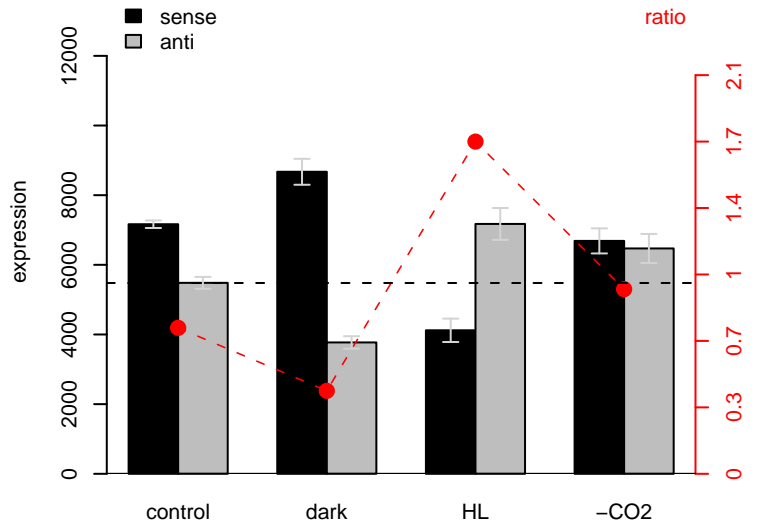
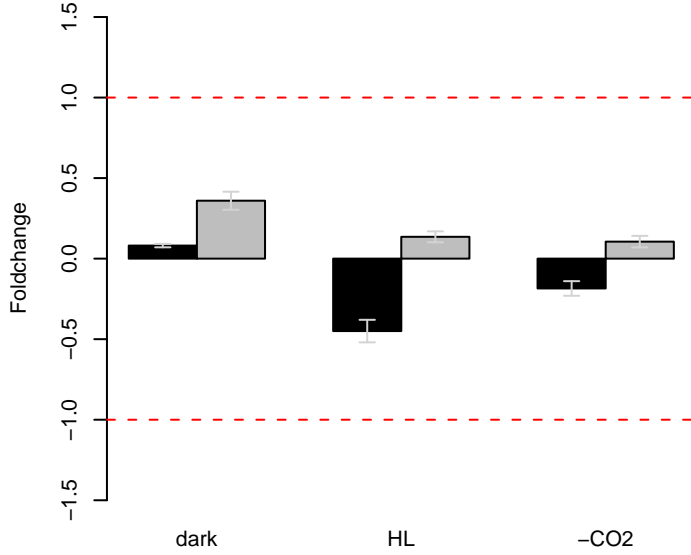
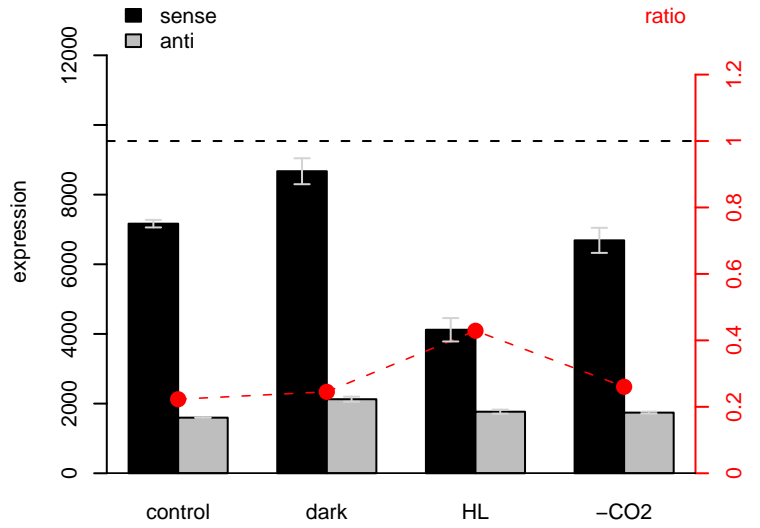
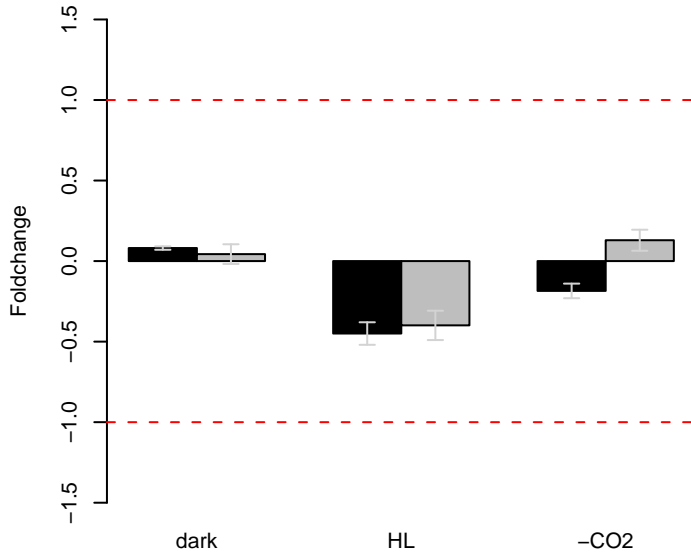
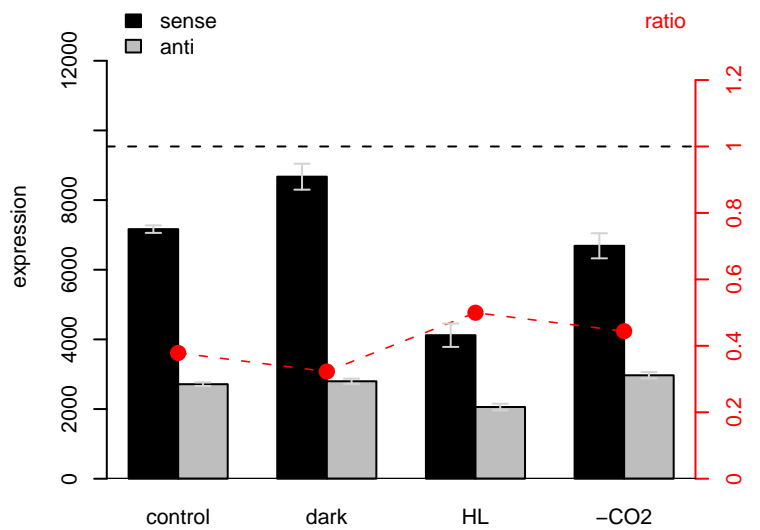
**ftsI(sll1833)****genome\_878****glcF(sll1831)****genome\_881****sll1830****genome\_883**

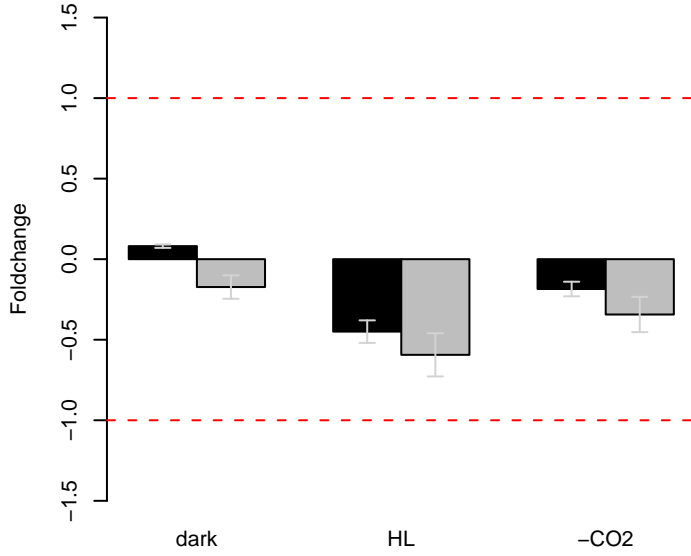
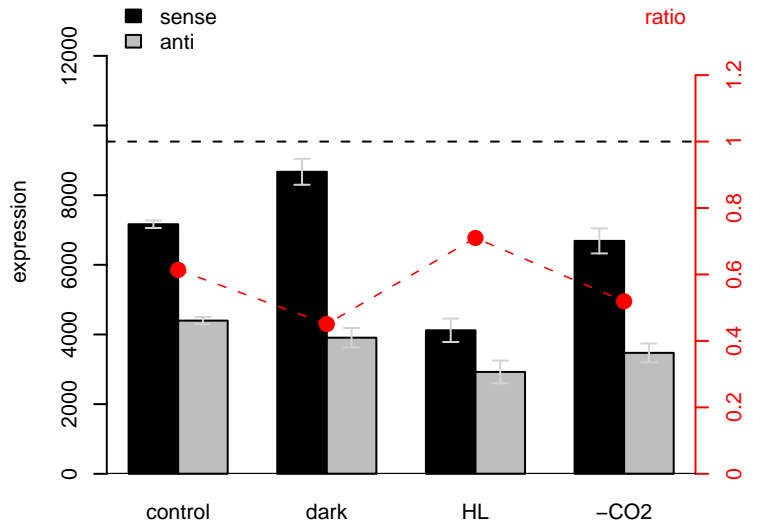
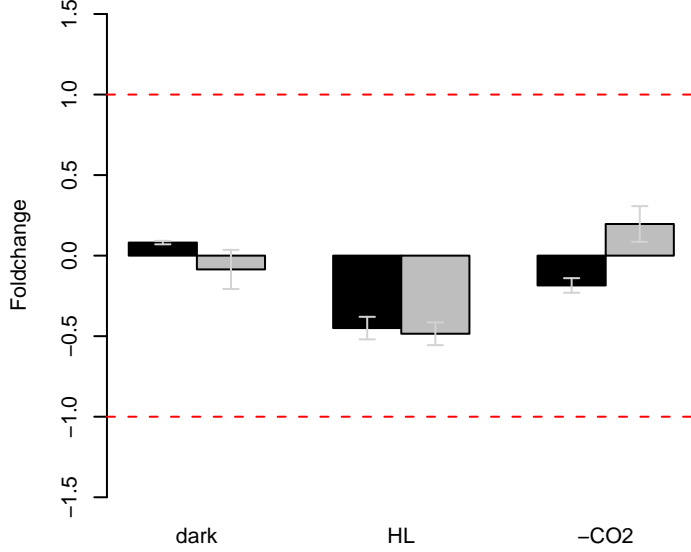
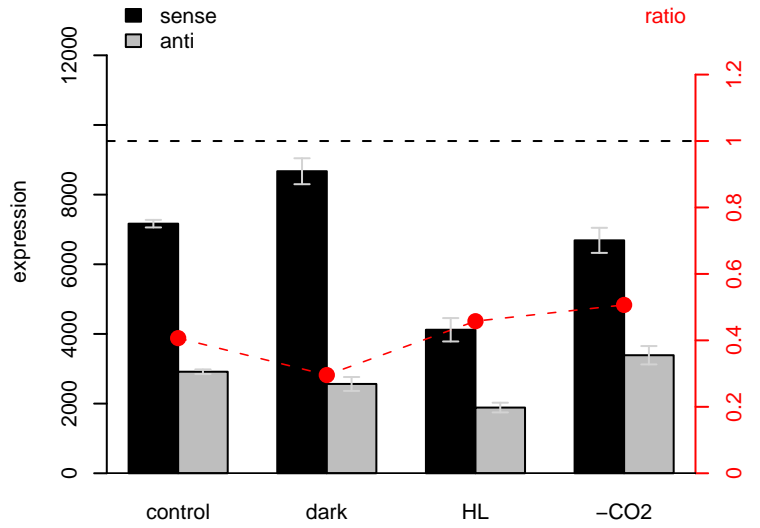
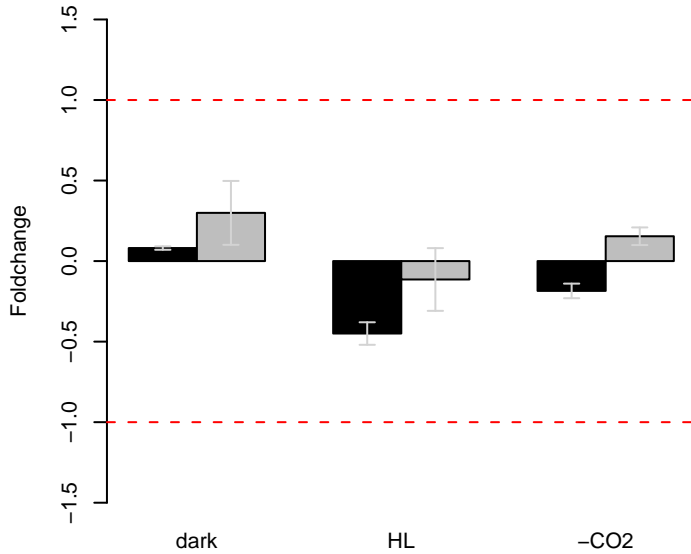
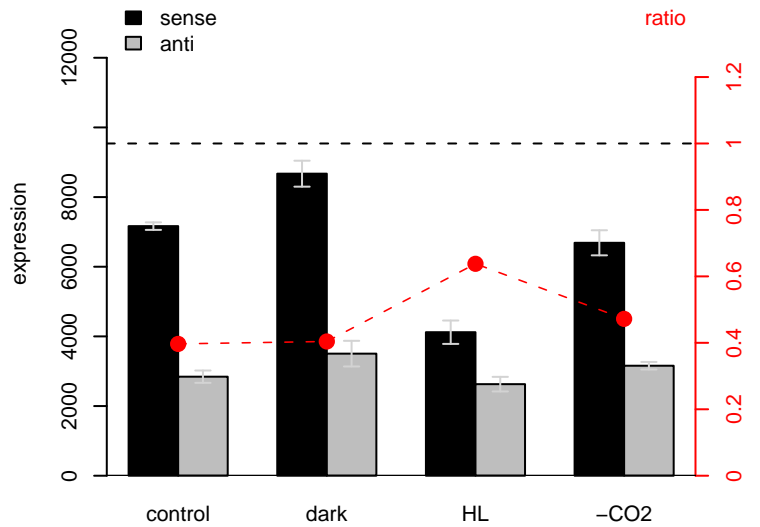


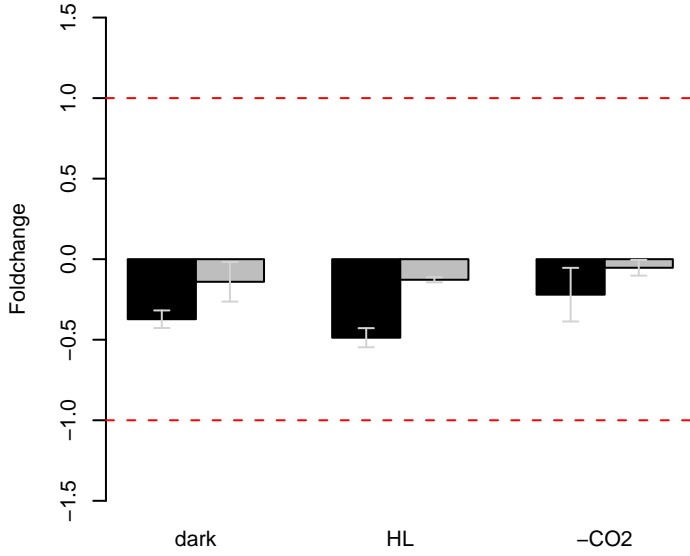
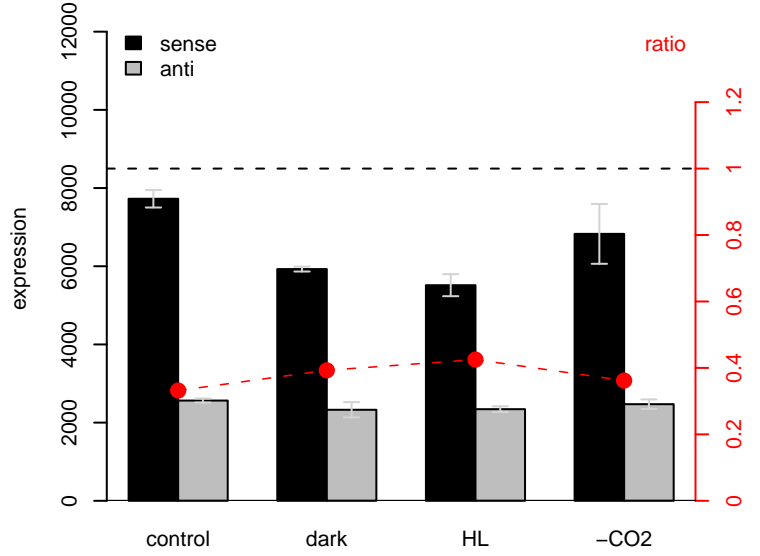
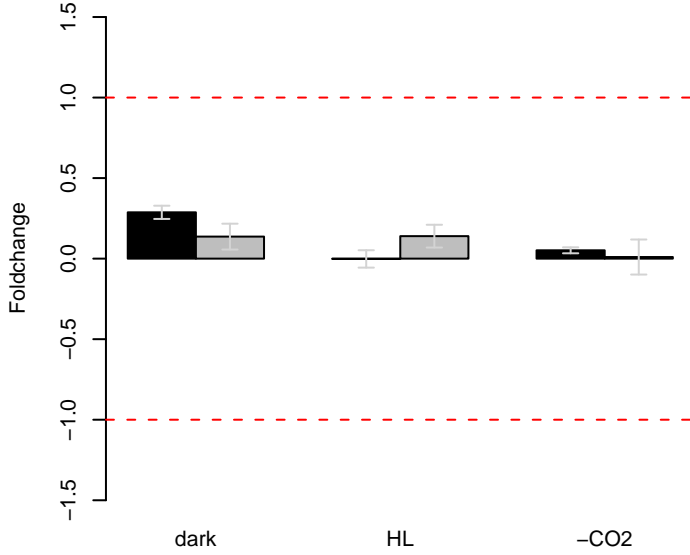
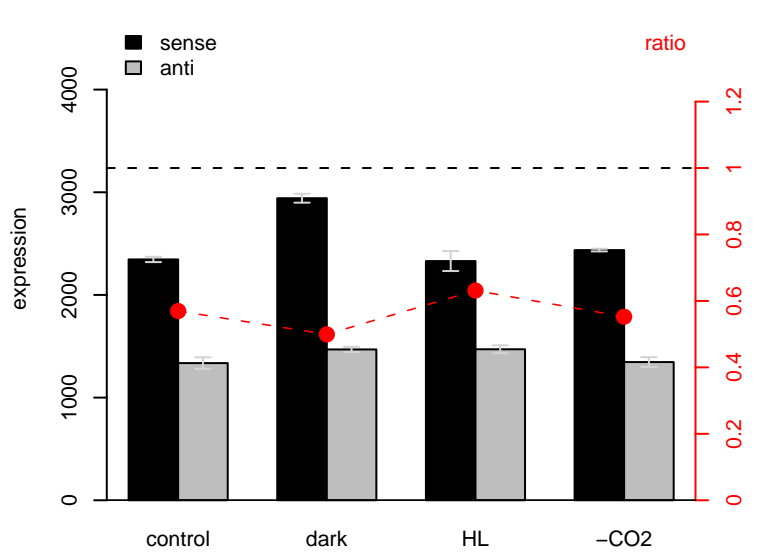
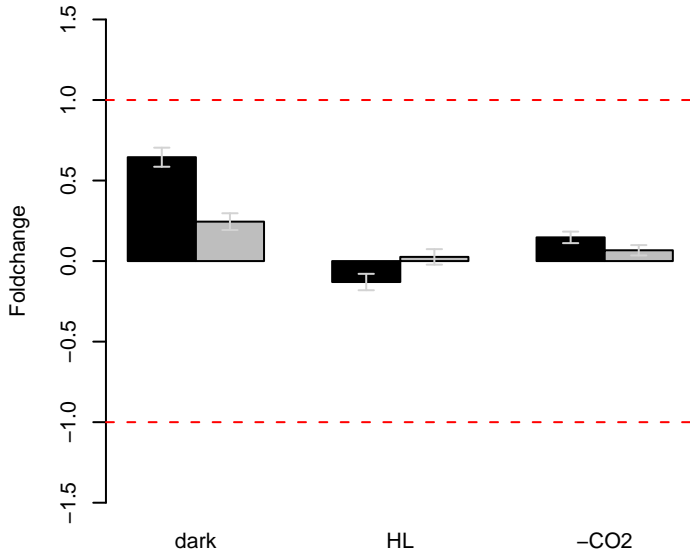
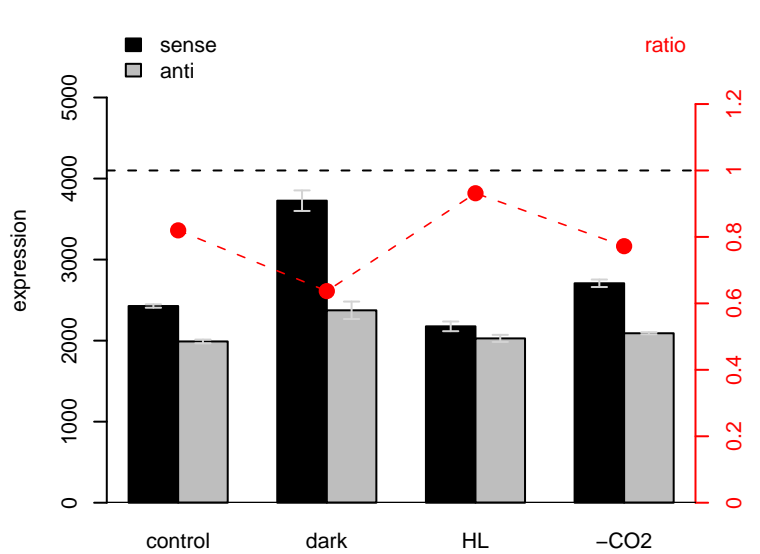
**slr1919****genome\_885****slI0998****genome\_888****sqdB(slr1020)****genome\_896**

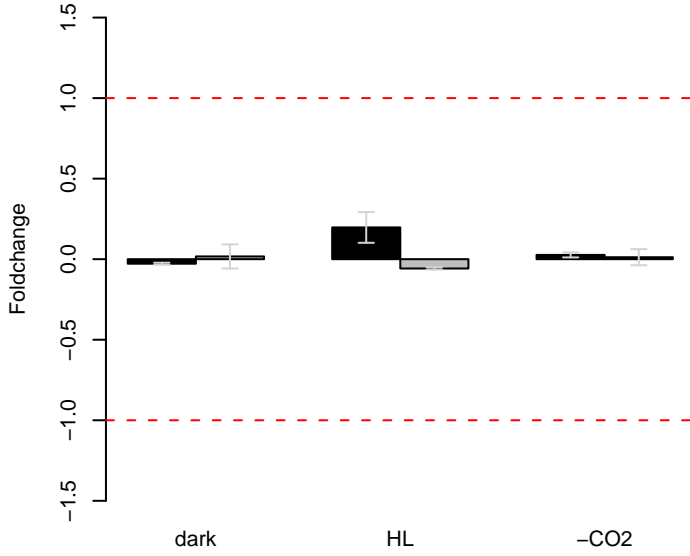
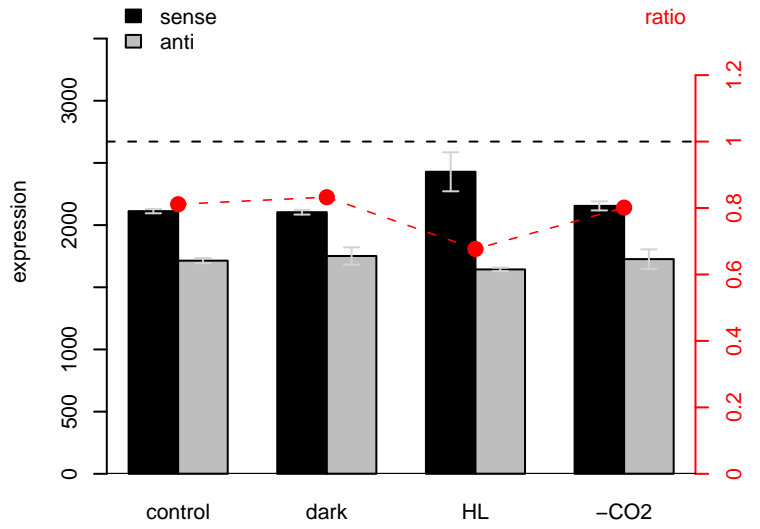
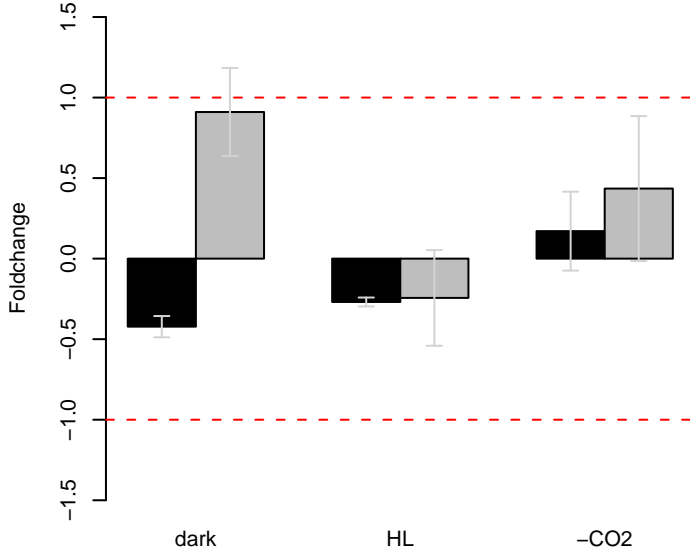
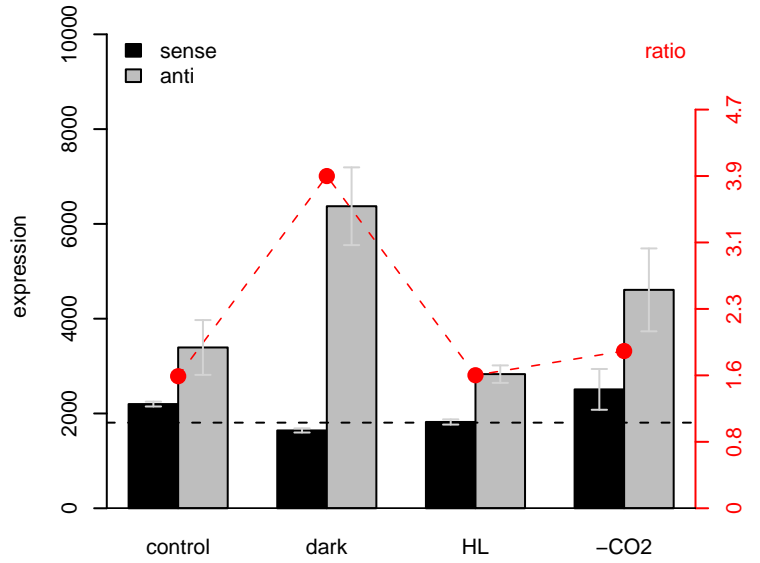
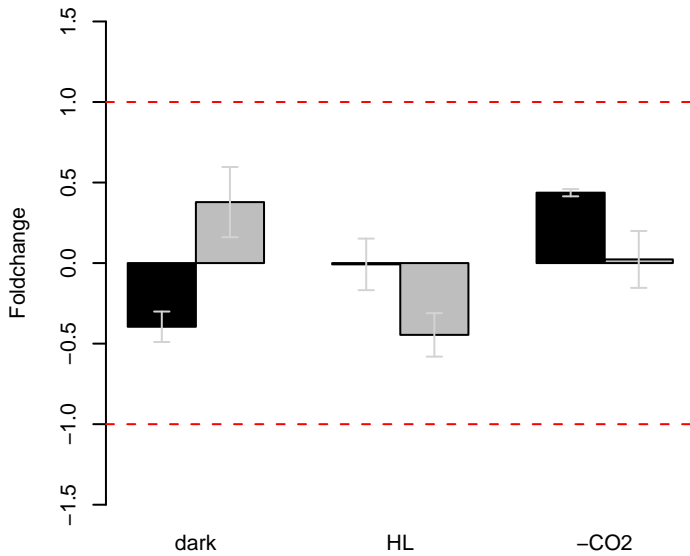
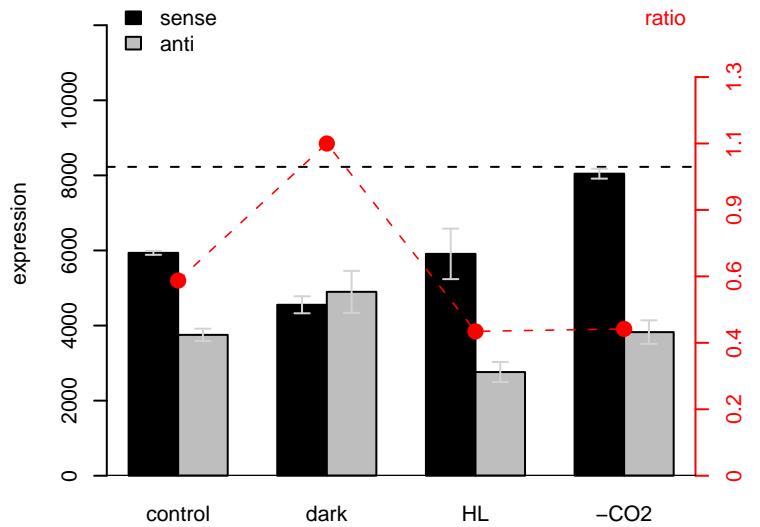
**sli0995****genome\_899****argD(slr1022)****genome\_903****slr1024****genome\_907**

**slr1025****genome\_908****slr1025****genome\_908****slr10992****genome\_912**

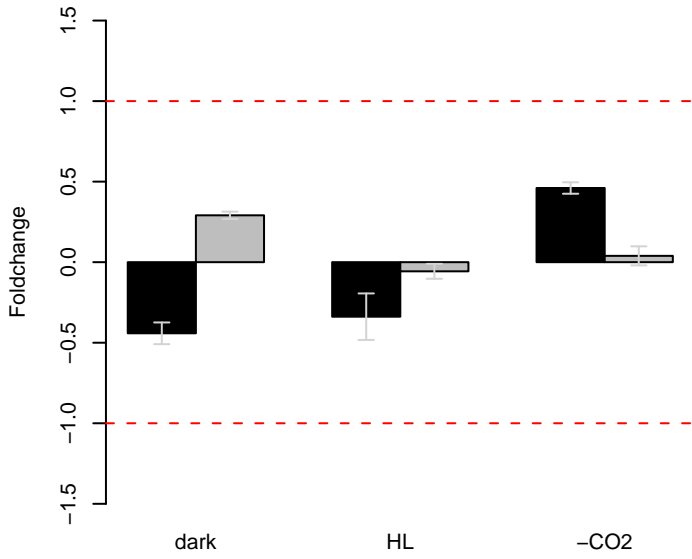
**slr1028****genome\_917****slr1028****genome\_917****slr1028****genome\_917**

**slr1028****genome\_917****slr1028****genome\_917****slr1028****genome\_917**

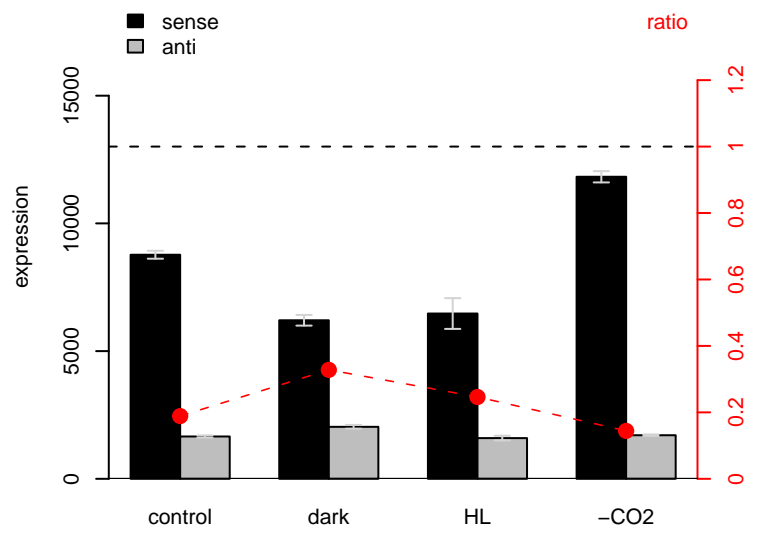
**slr1034****genome\_929****sli0984****genome\_934****sli0980****genome\_943**

**adk(sll1059)****genome\_96****cydA(slr1379)****genome\_949****sll1293****genome\_967**

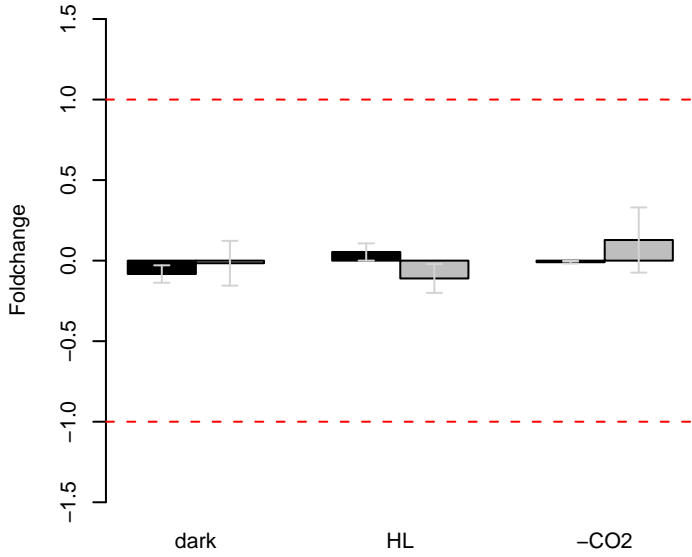
**sll1292**



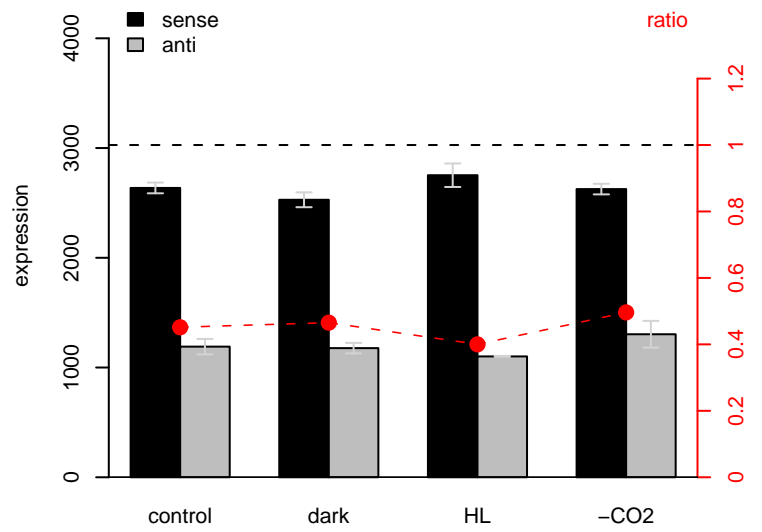
**genome\_969**



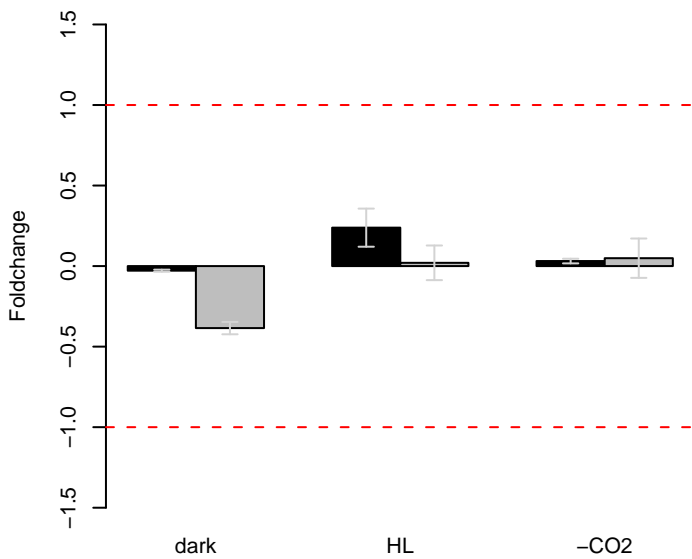
**dapB(sll1058)**



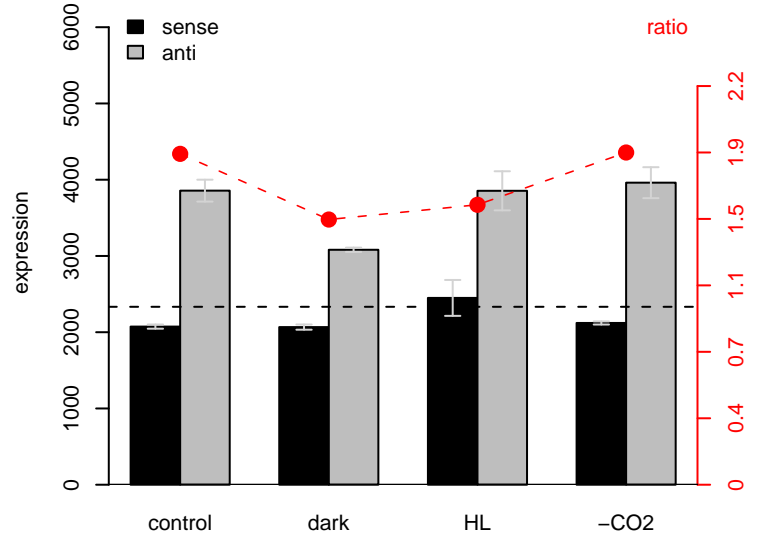
**genome\_99**



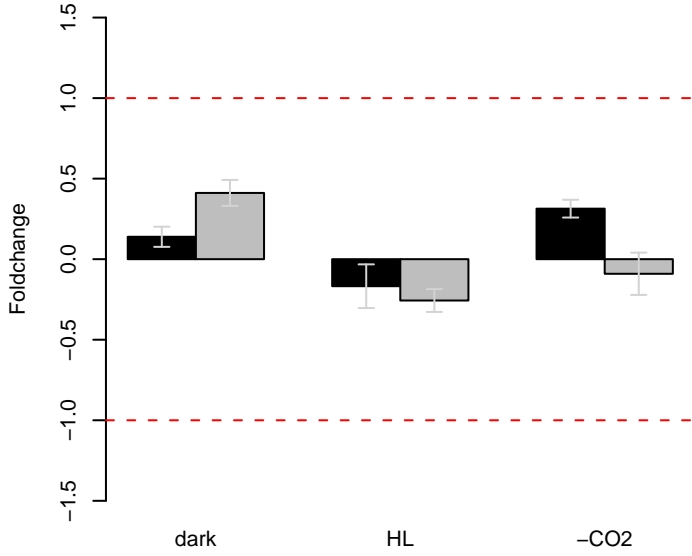
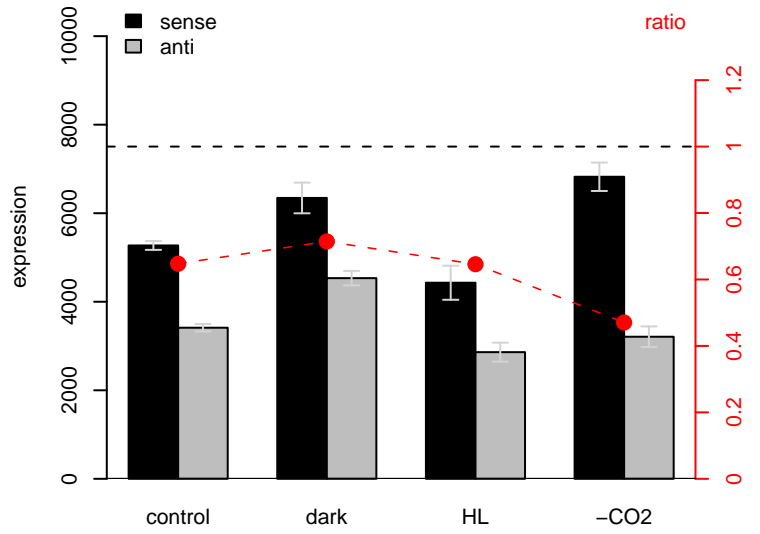
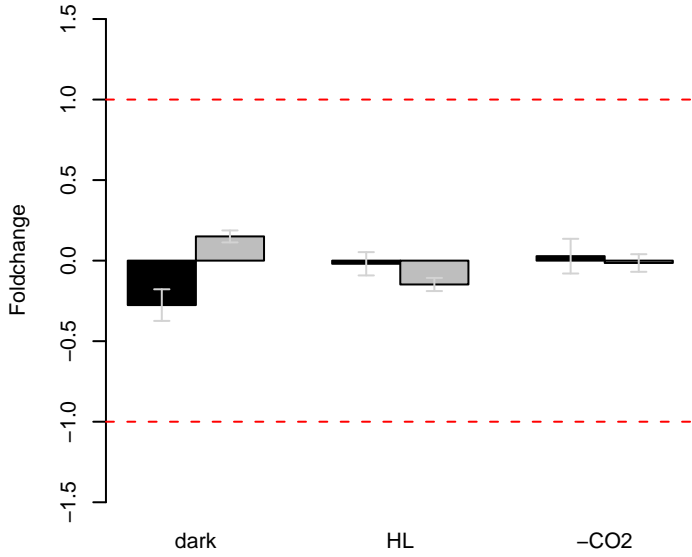
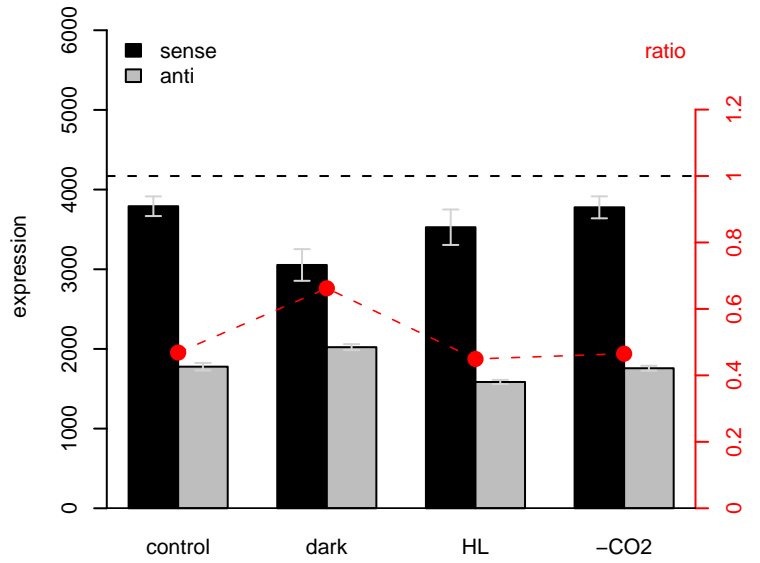
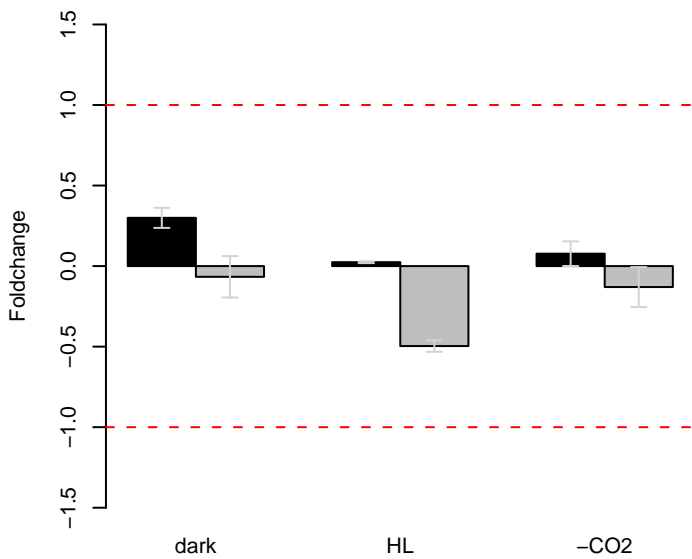
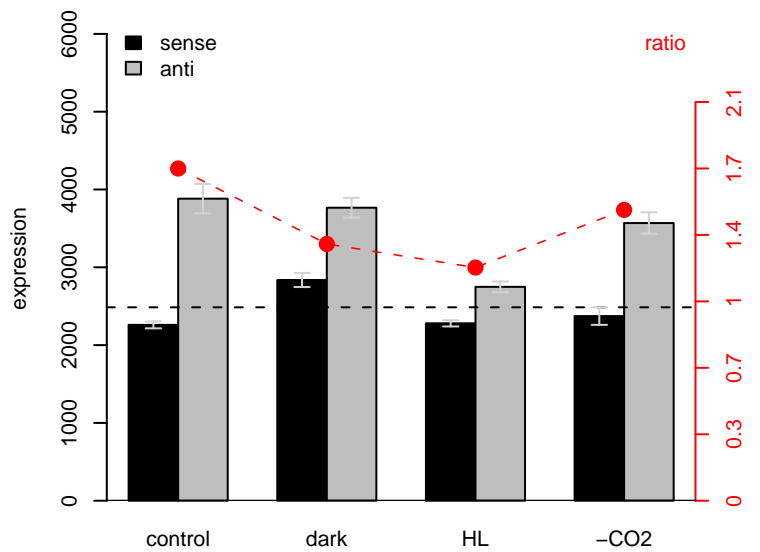
**sll1289**

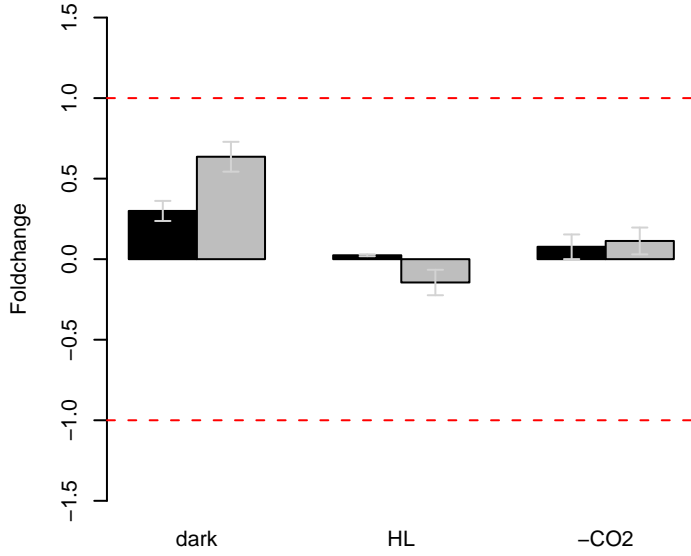
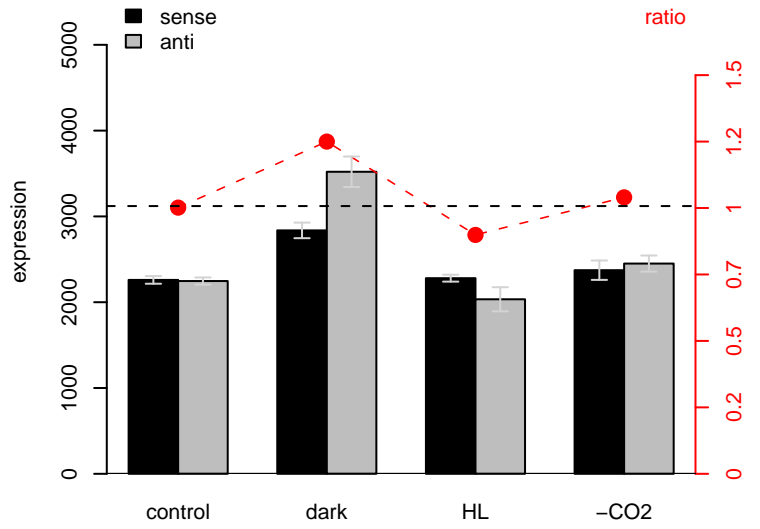
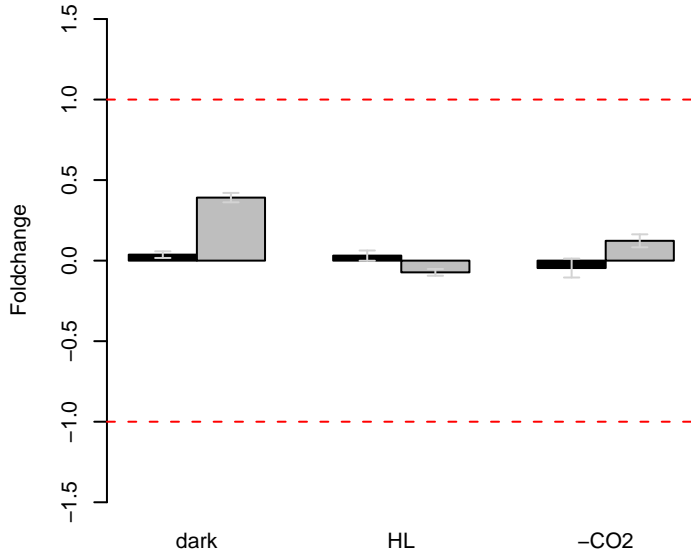
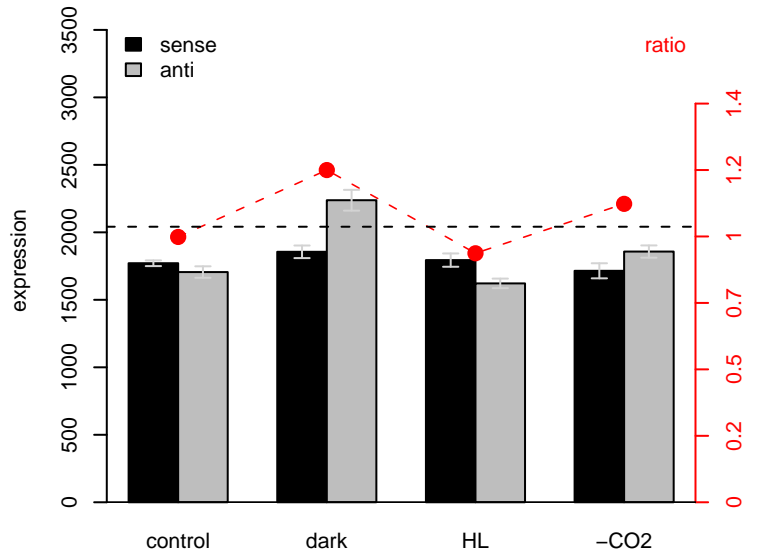
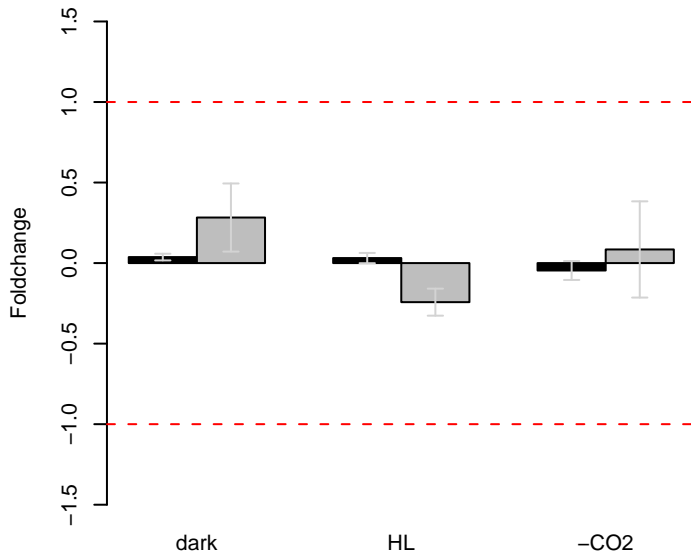
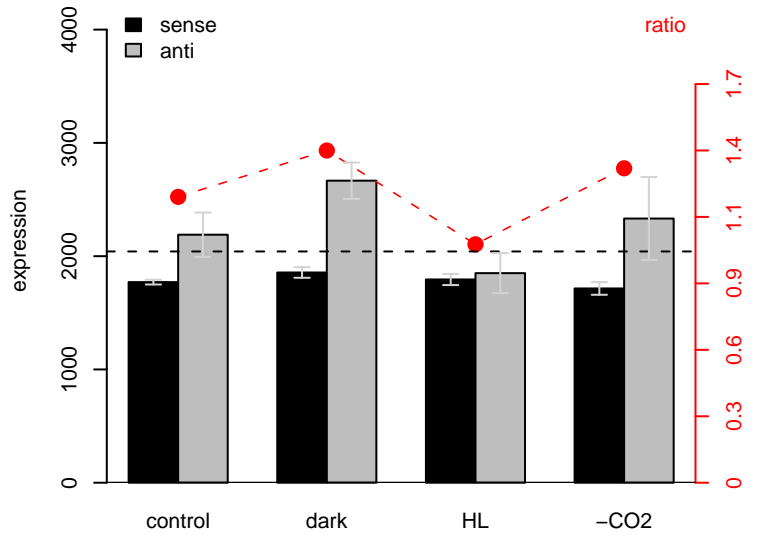


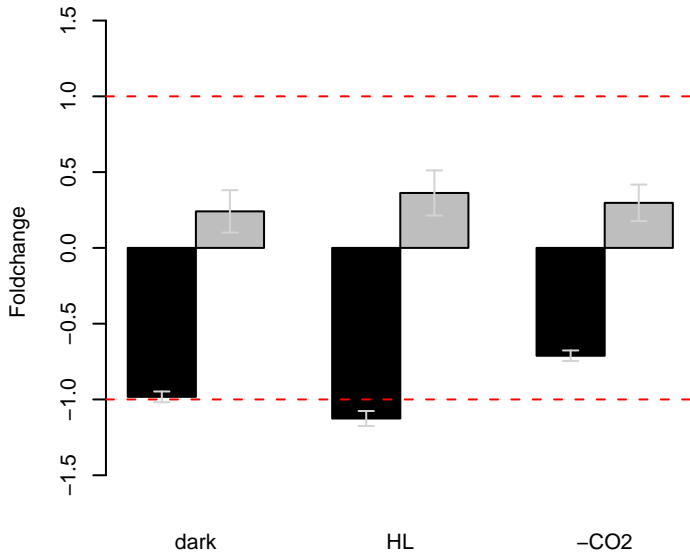
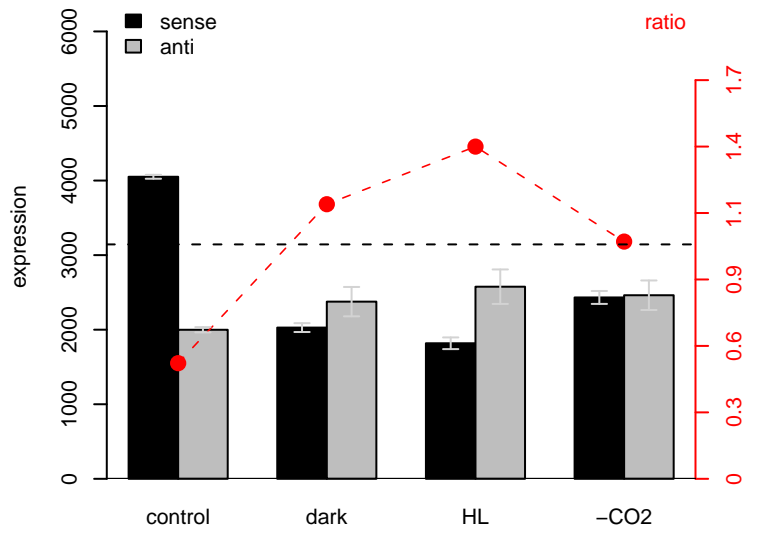
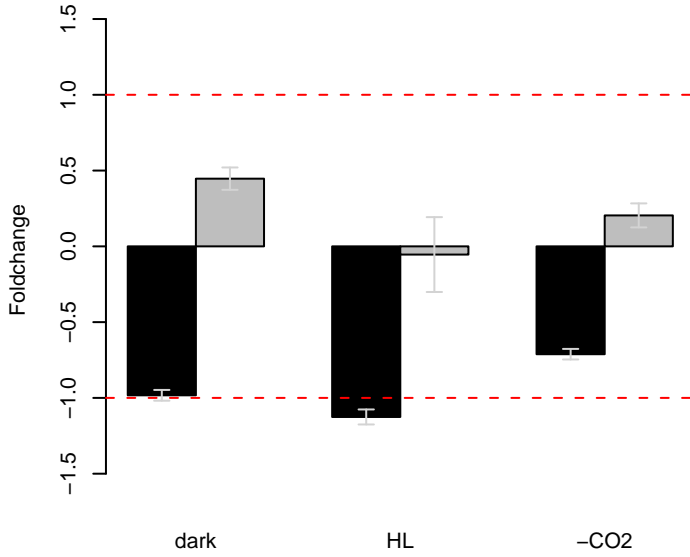
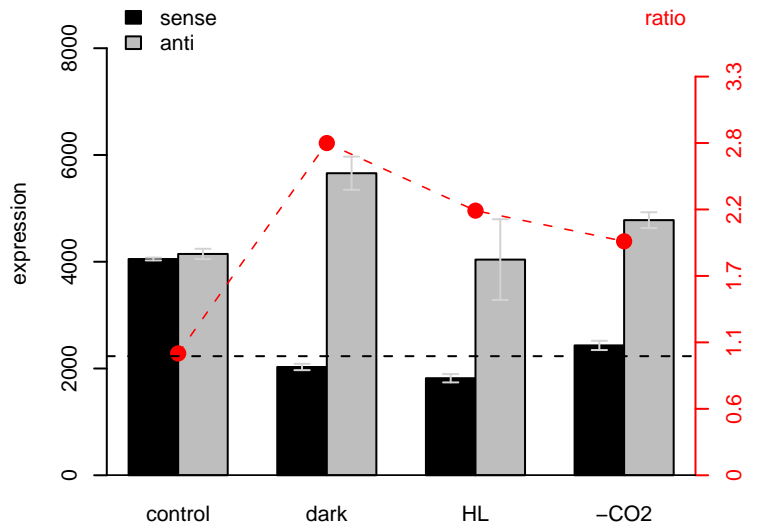
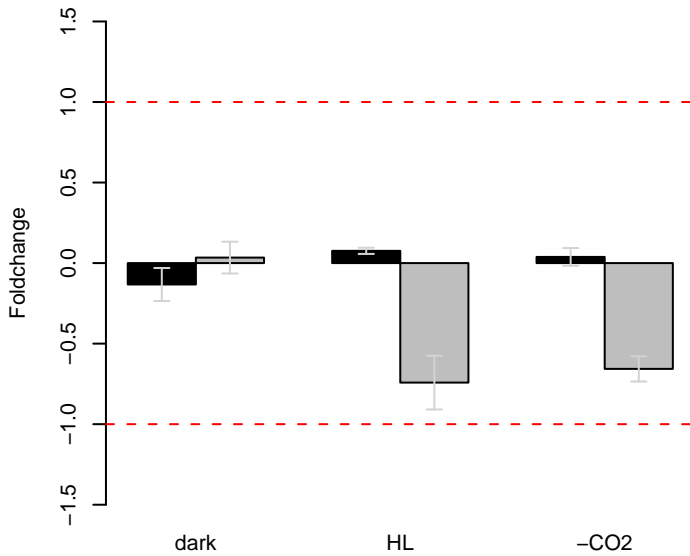
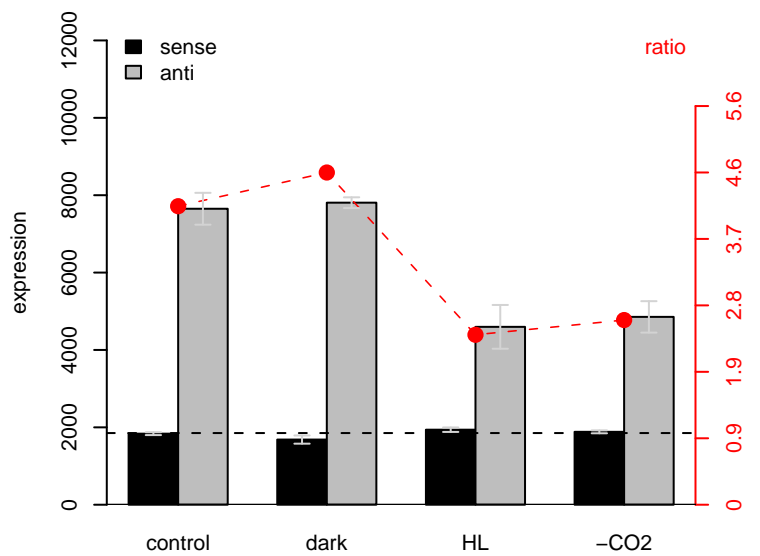
**genome\_974**

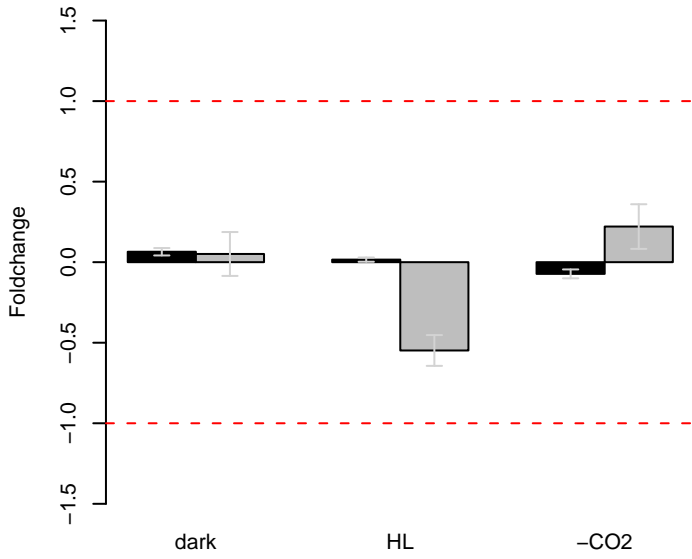
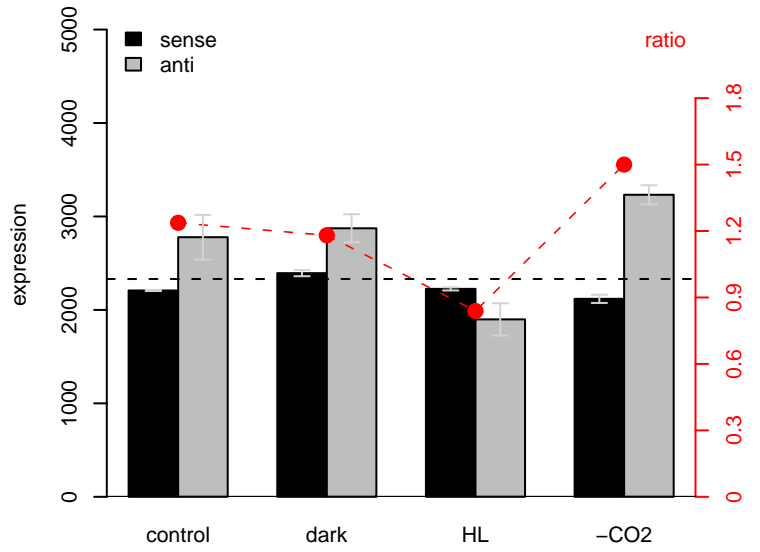
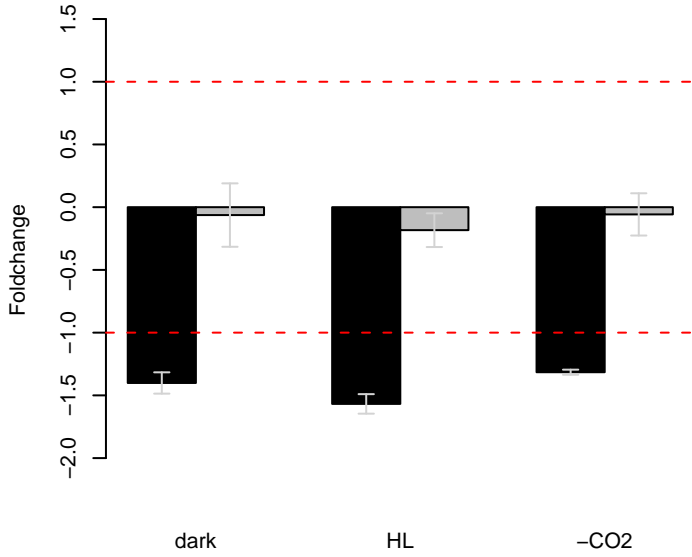
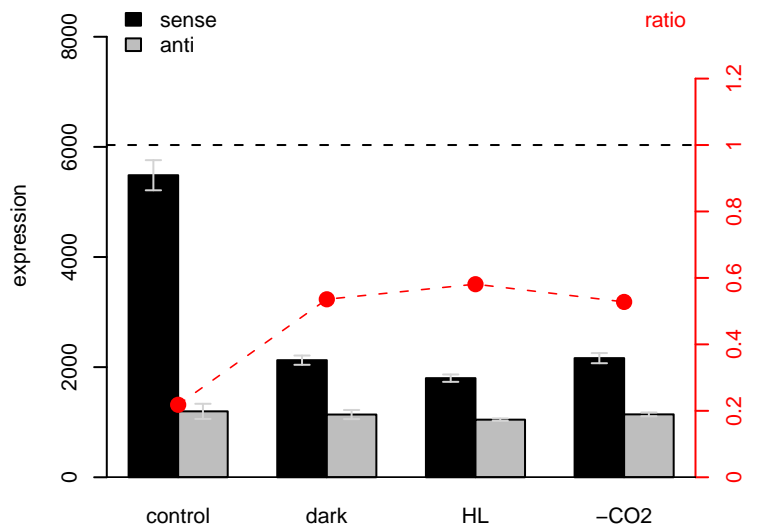
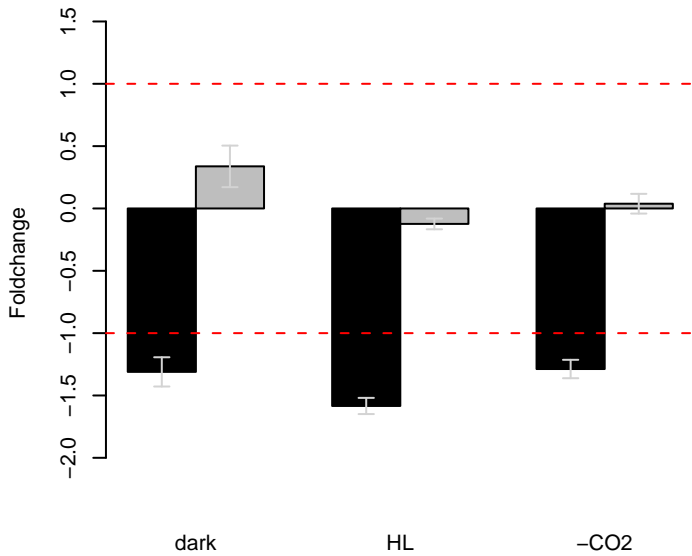
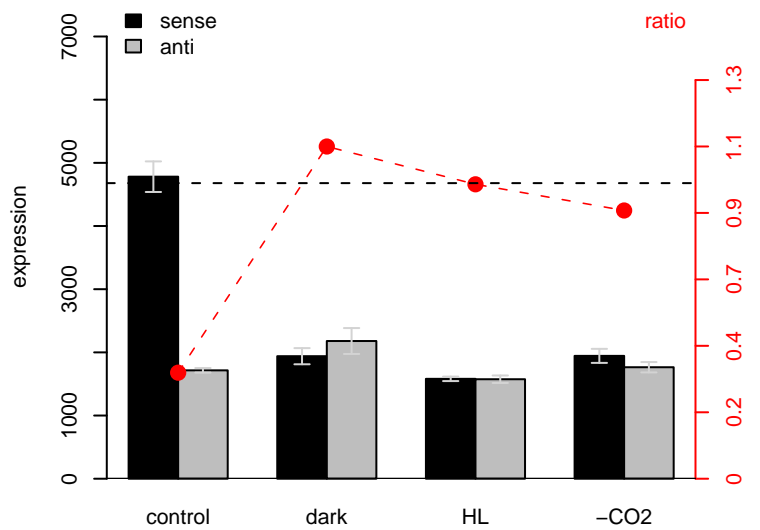


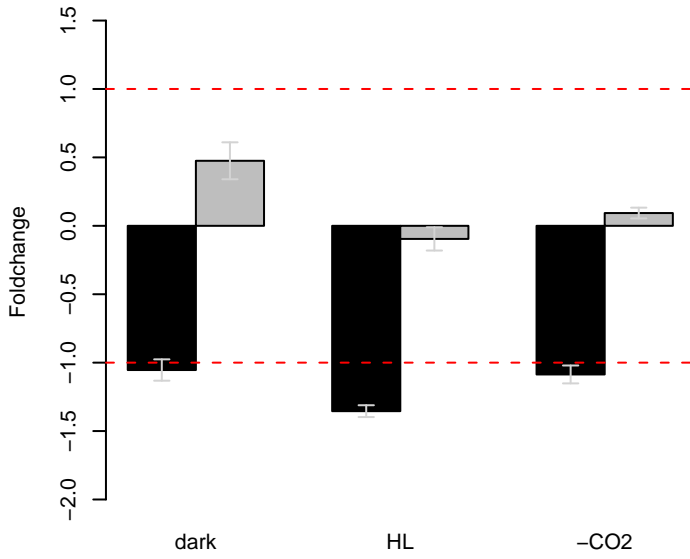
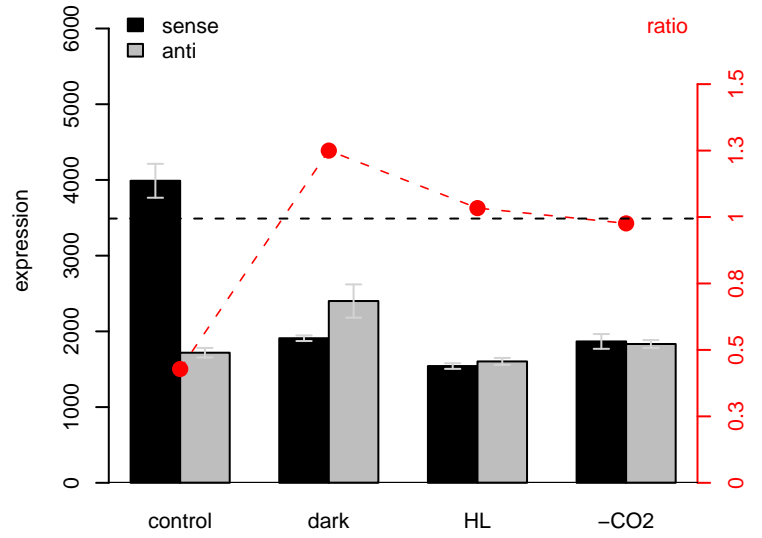
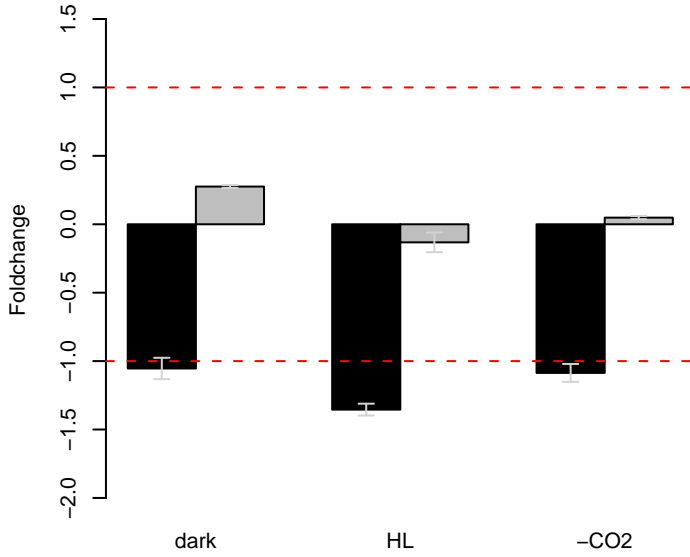
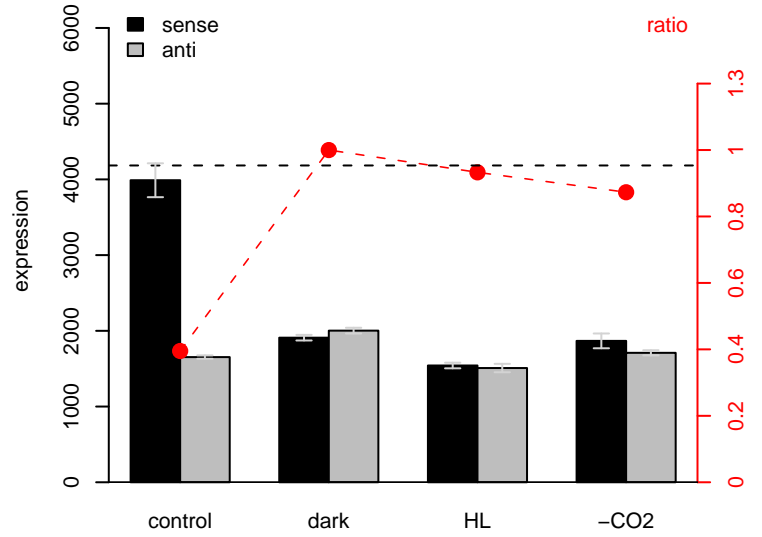
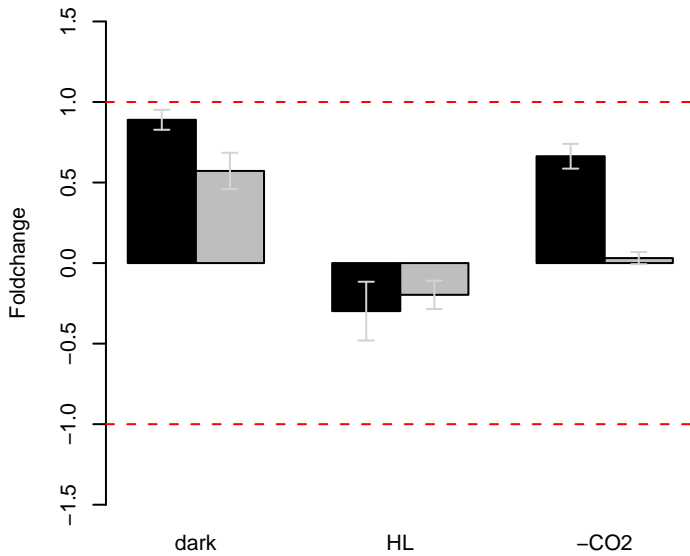
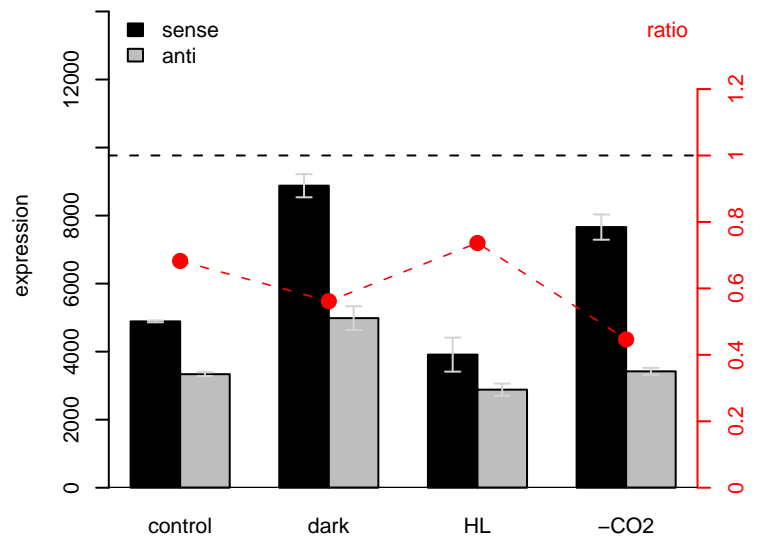


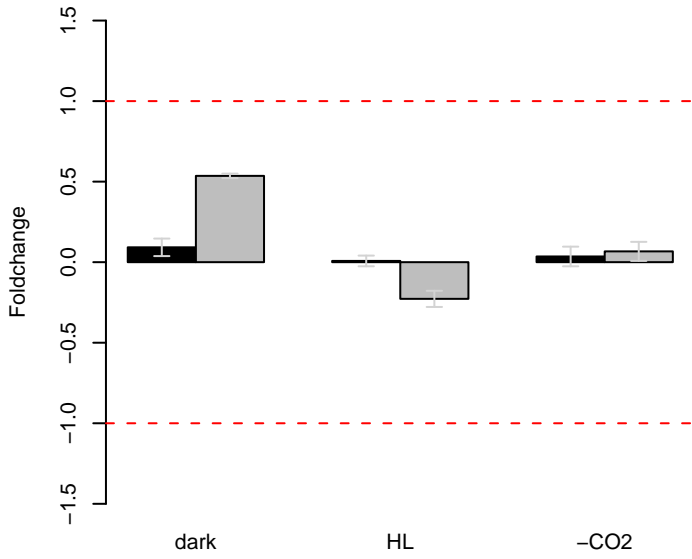
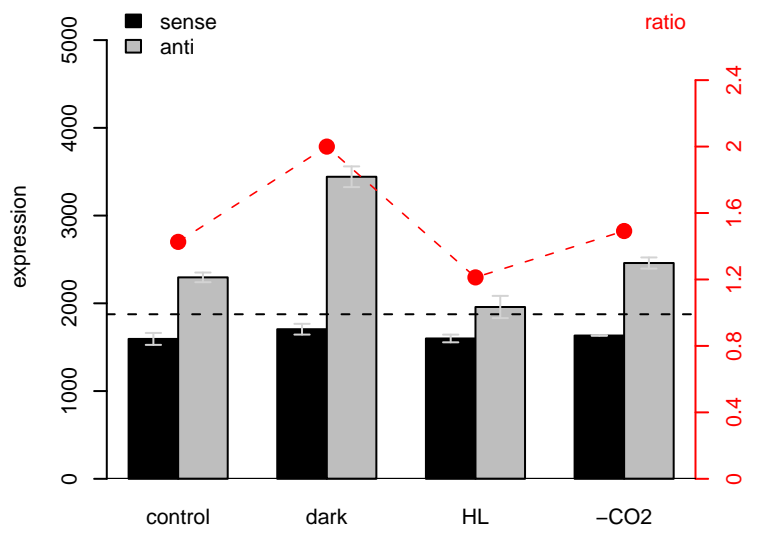
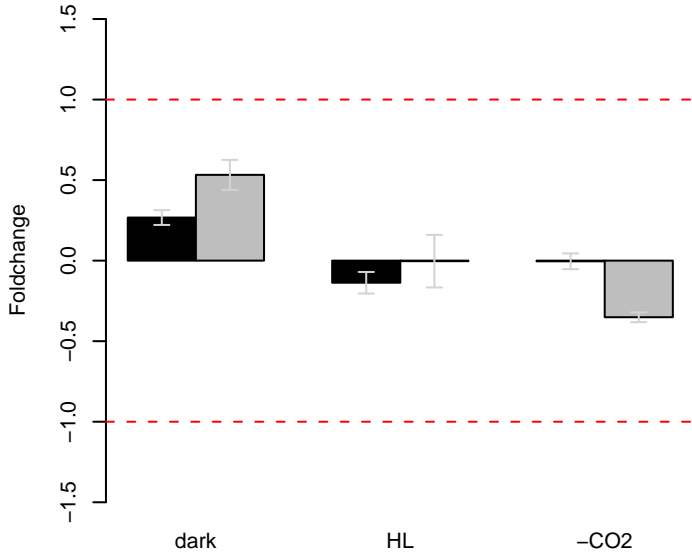
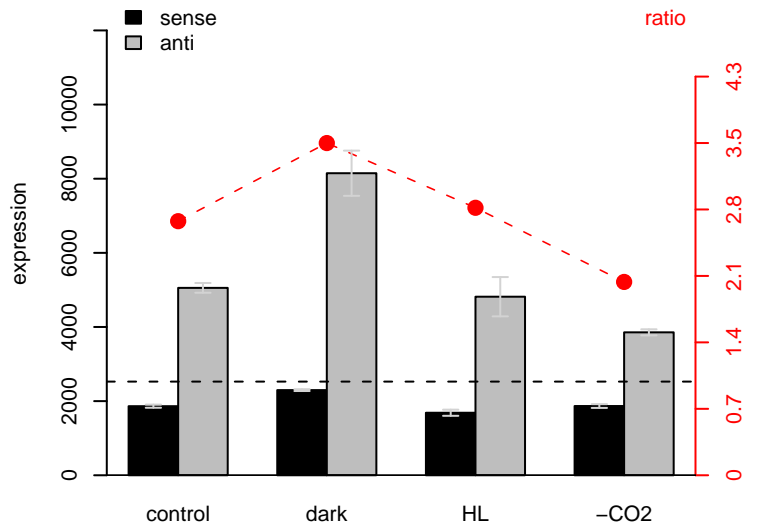
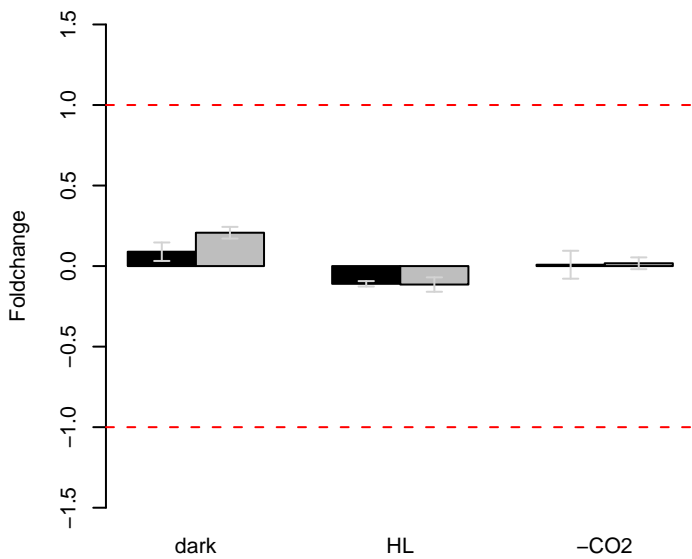
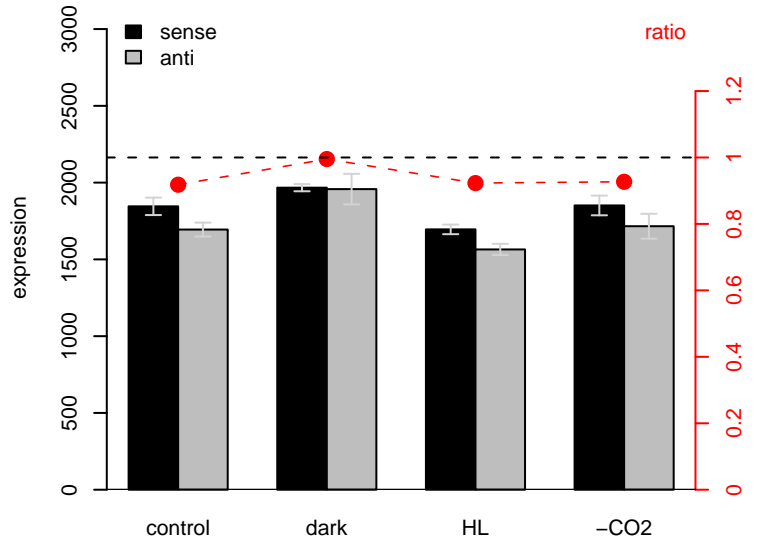
**ftsH(slr1390)****genome\_976****slr1391****genome\_979****slr1393****genome\_985**

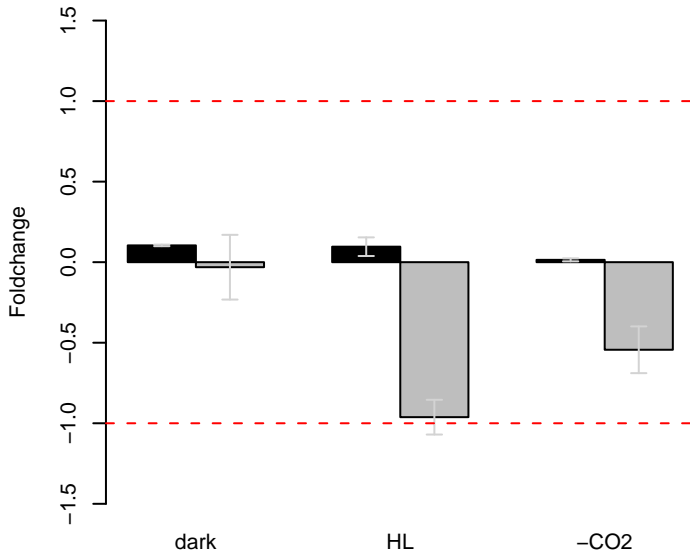
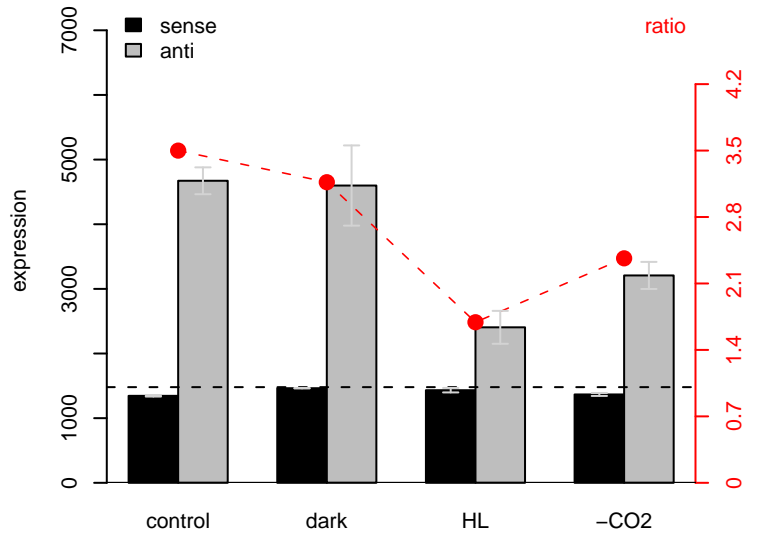
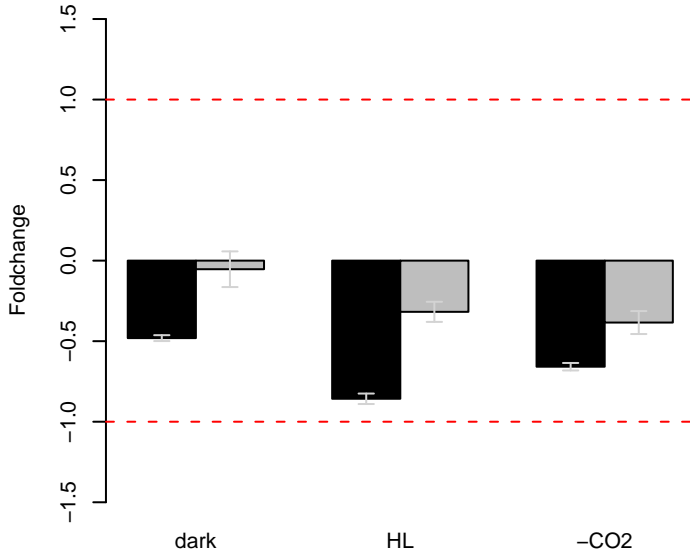
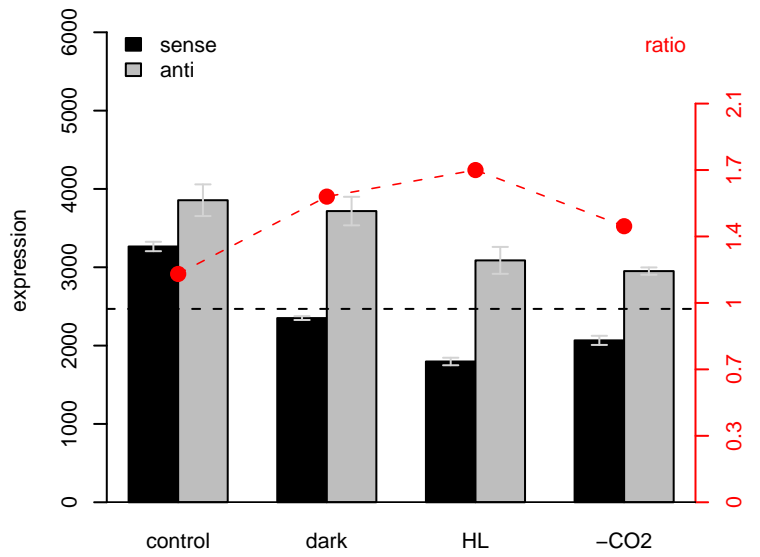
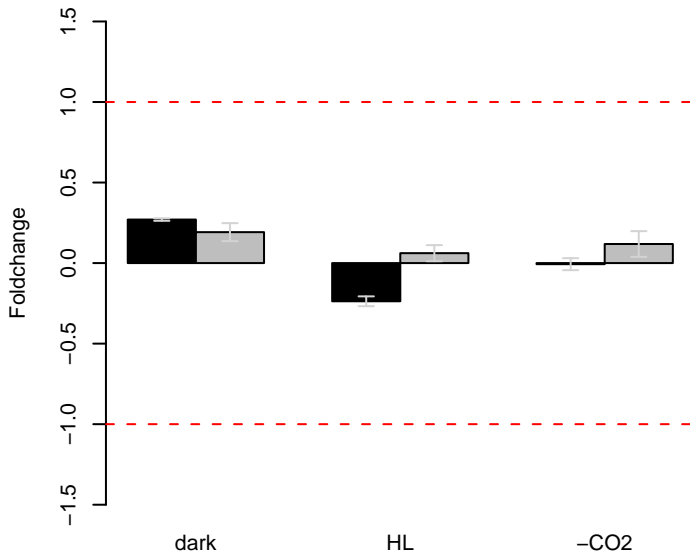
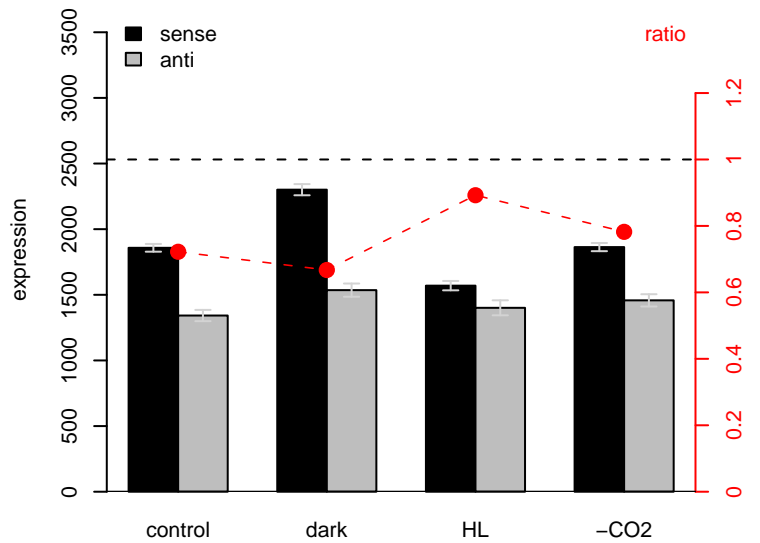
**slr1393****genome\_985****slr1395****genome\_992****slr1395****genome\_992**

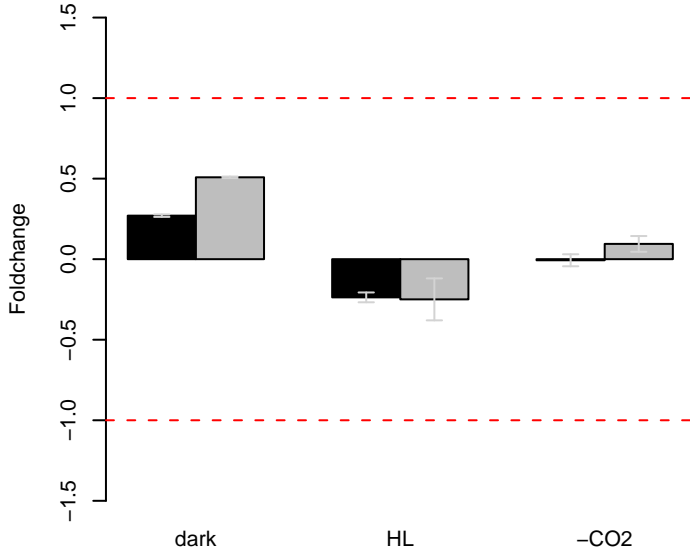
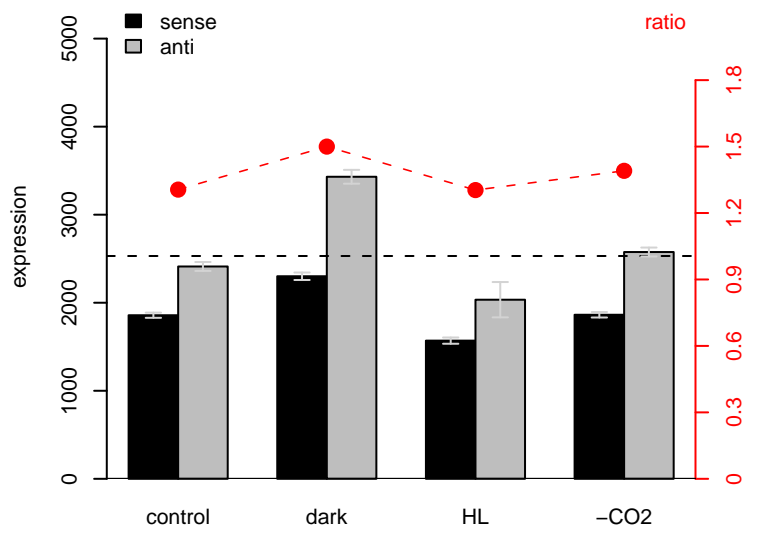
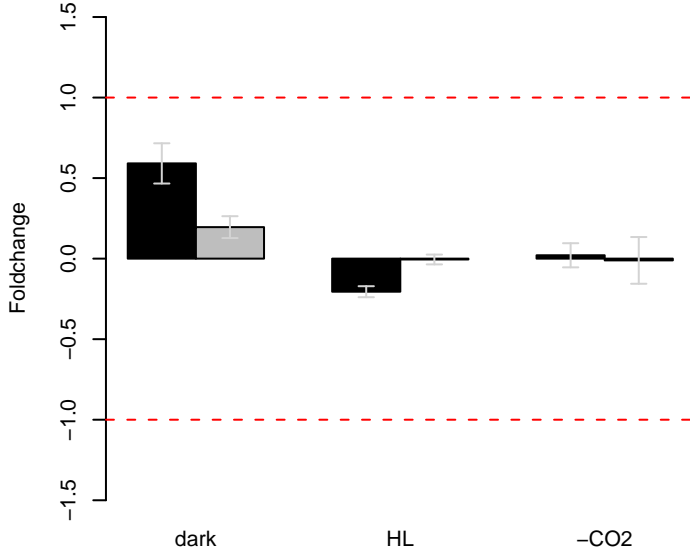
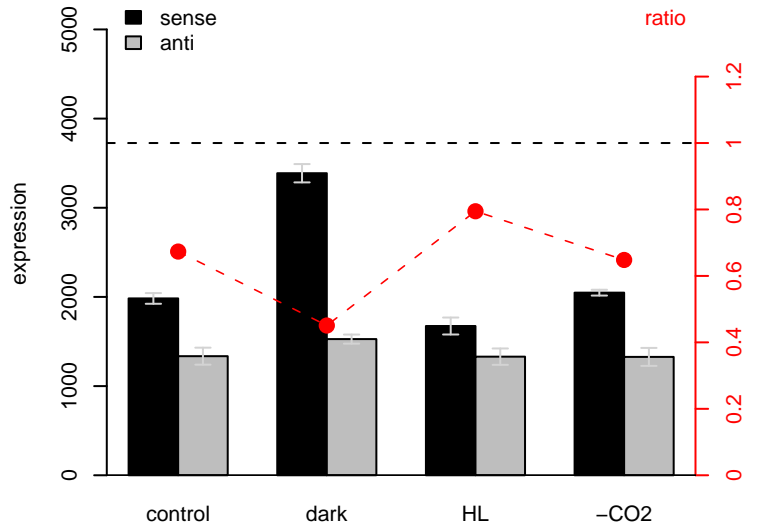
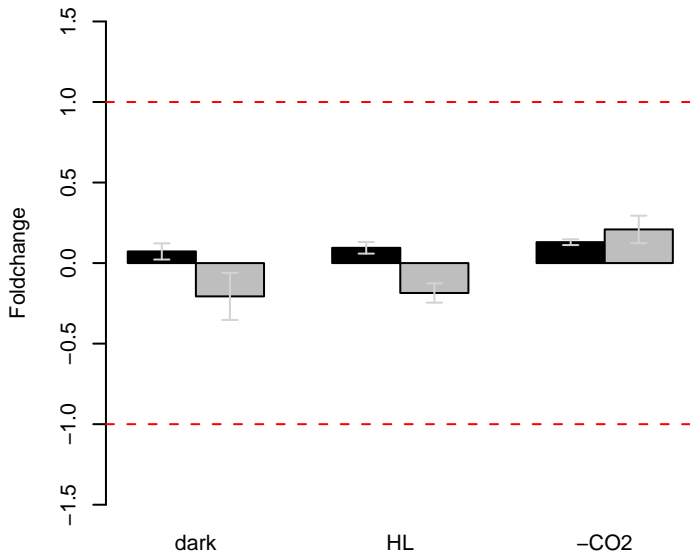
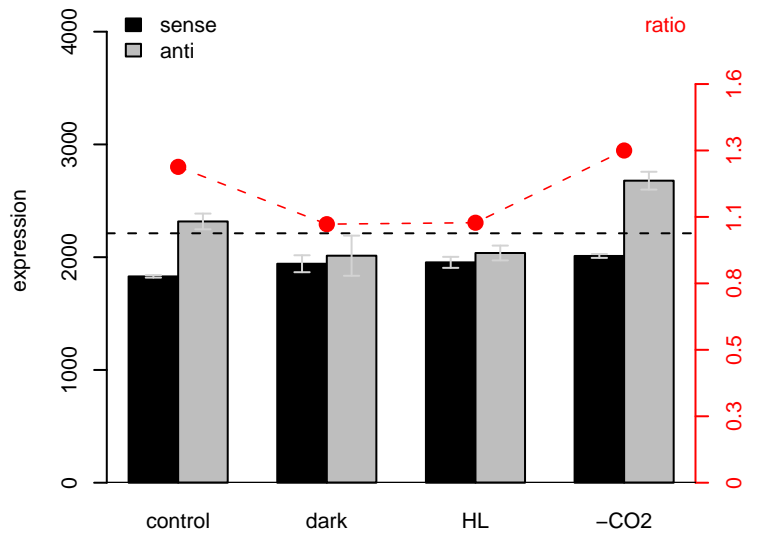
**slr1396****genome\_995****slr1396****genome\_995****slr7060****pSYSA\_106**

**slr7061****pSYSA\_108****sli7062****pSYSA\_110****sli7064****pSYSA\_113**

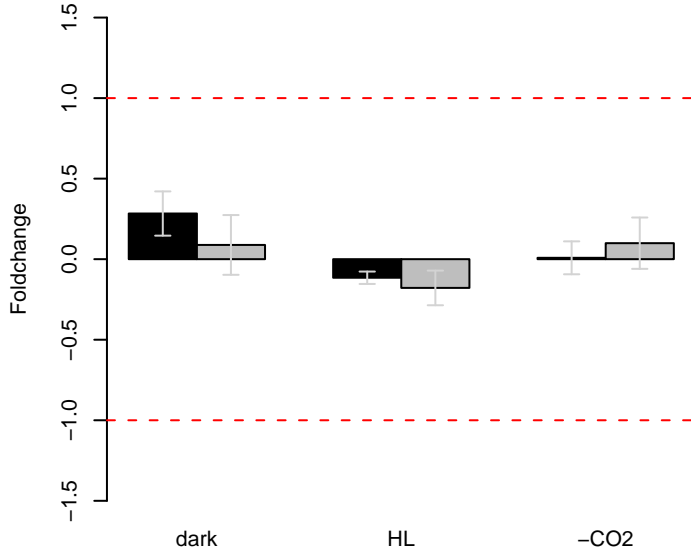
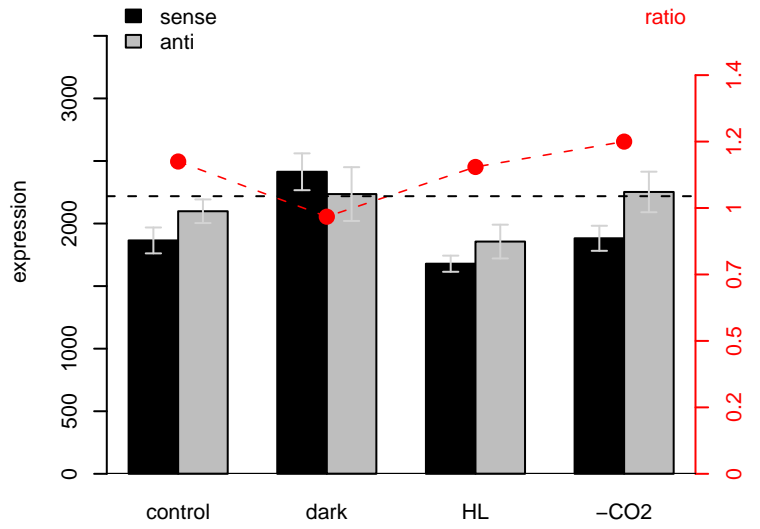
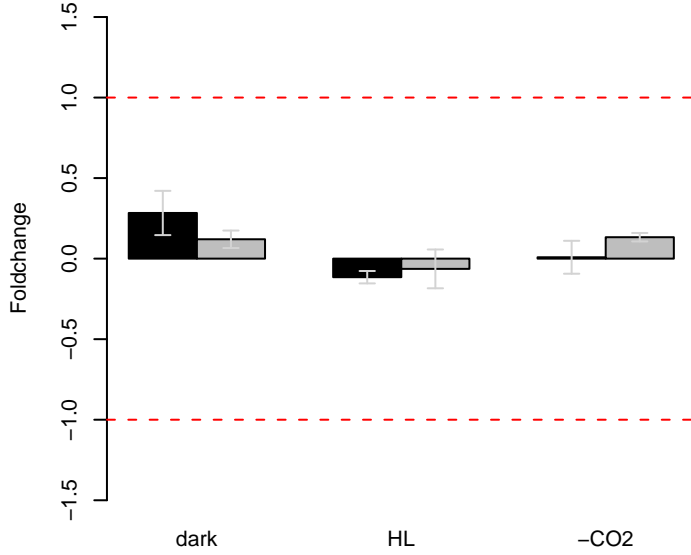
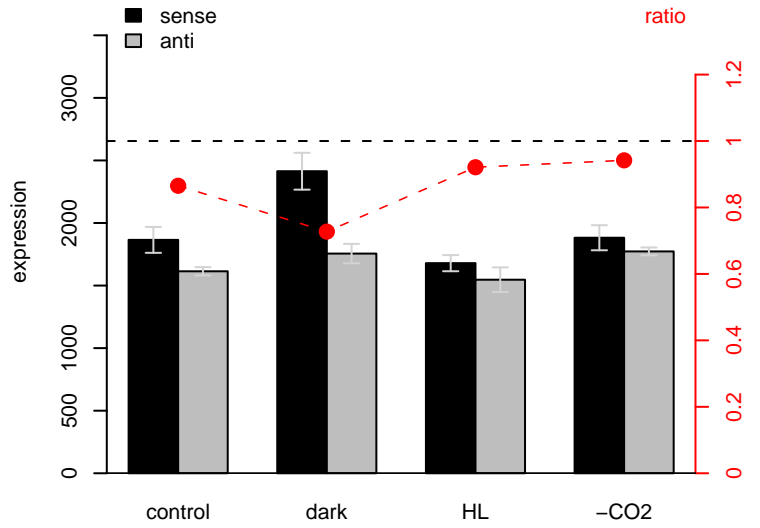
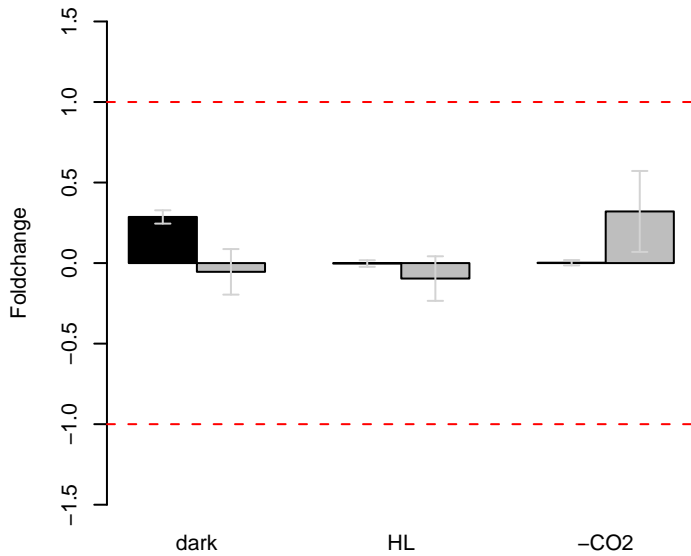
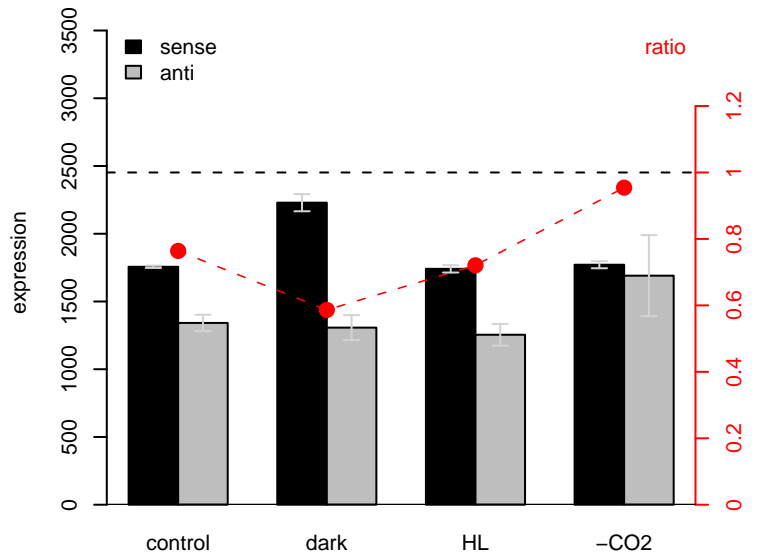
**sli7066****pSYSA\_116****sli7066****pSYSA\_116****slr7073****pSYSA\_126**

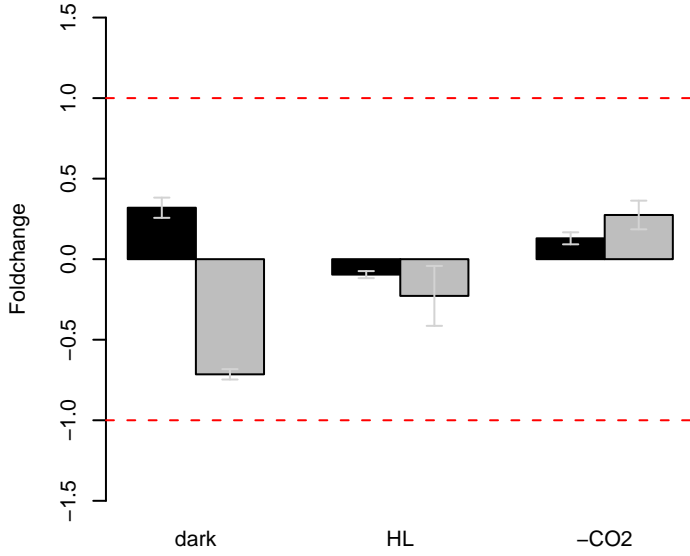
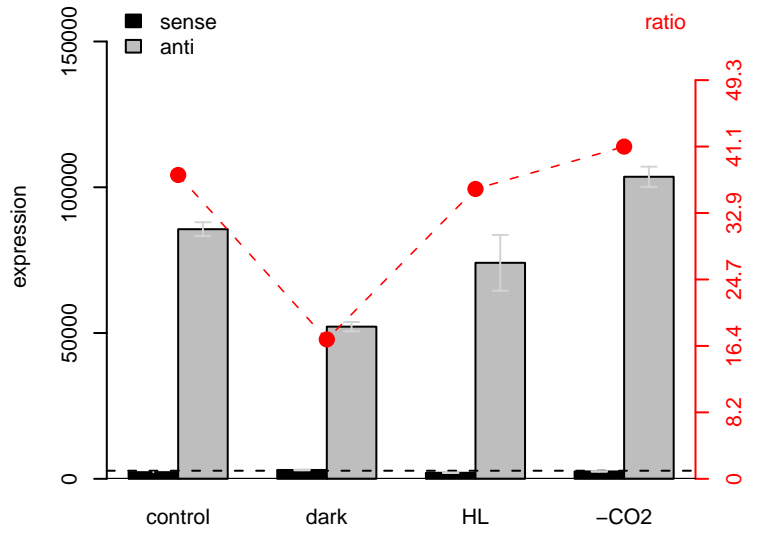
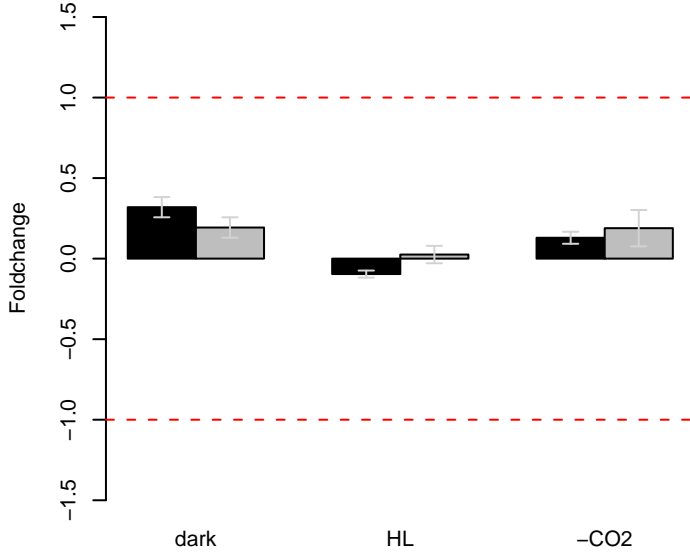
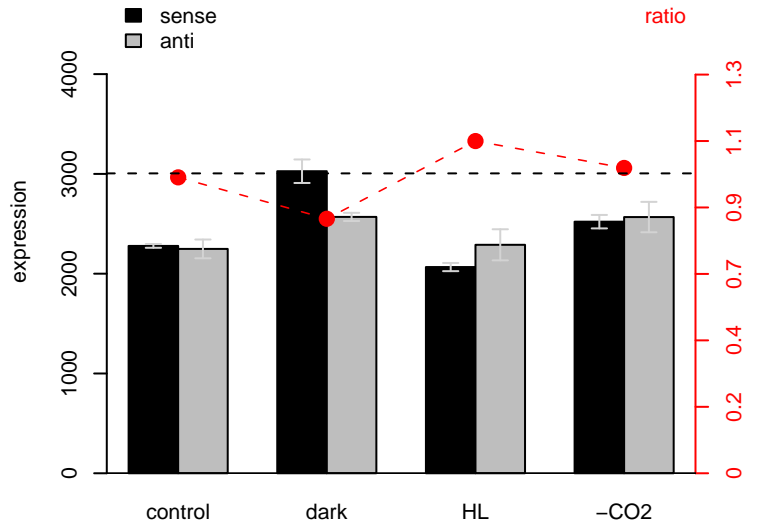
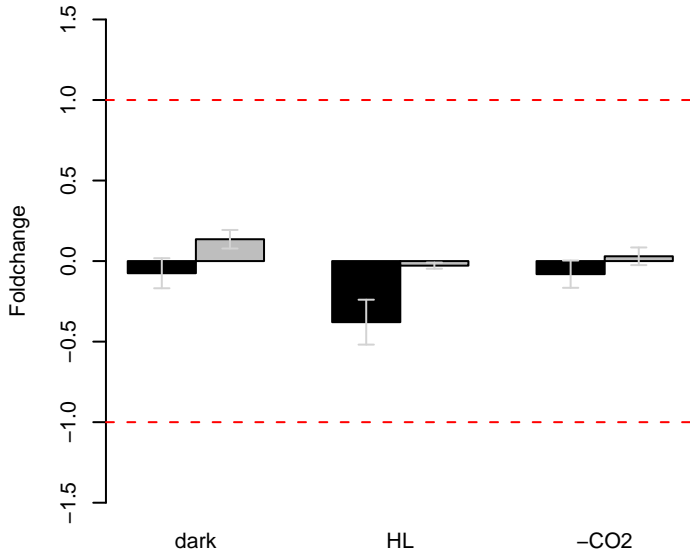
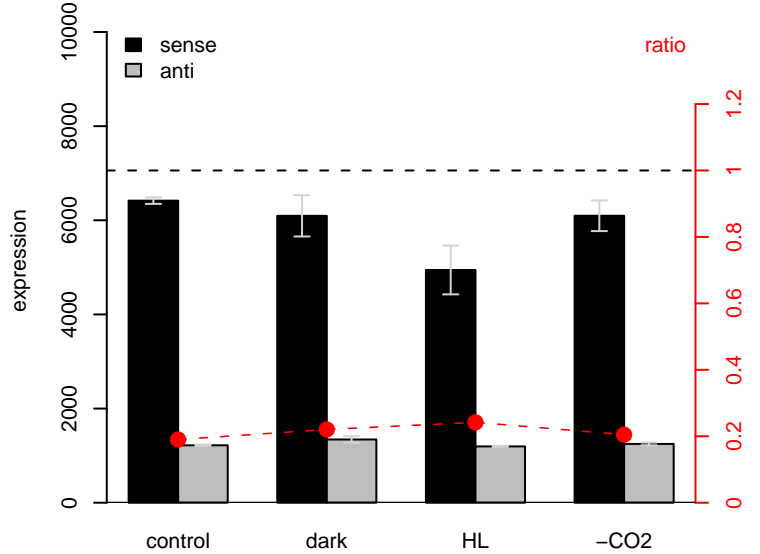
**sli7077****pSYSA\_137****sli7009****pSYSA\_13****slr7081****pSYSA\_143**

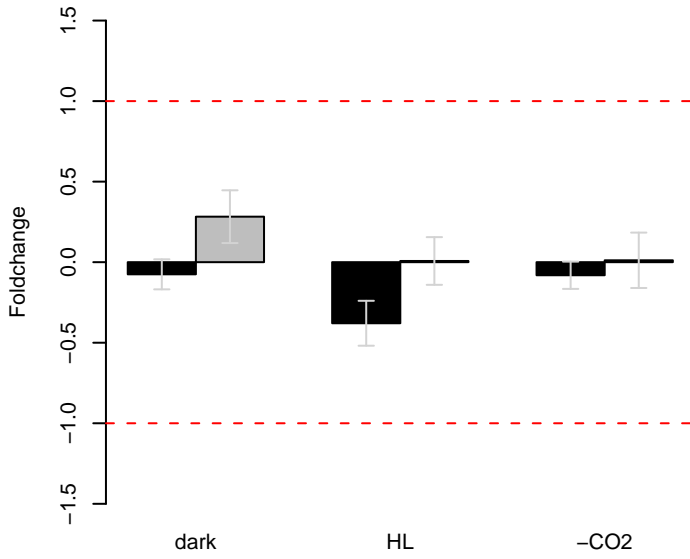
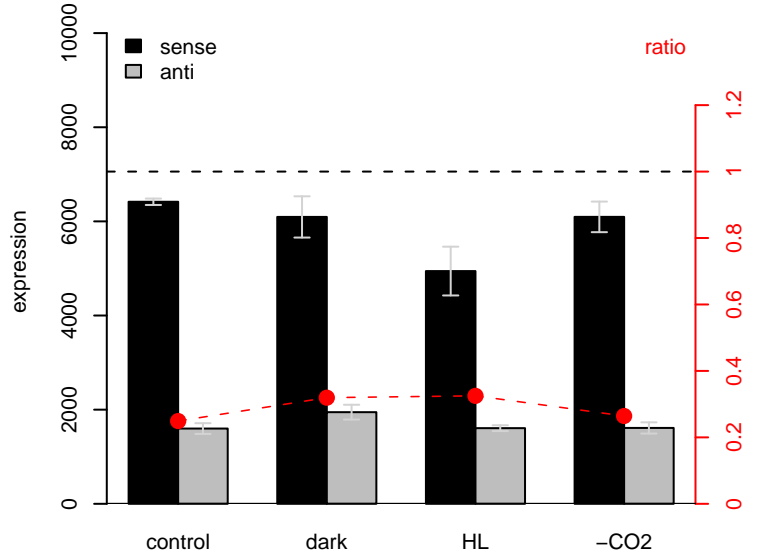
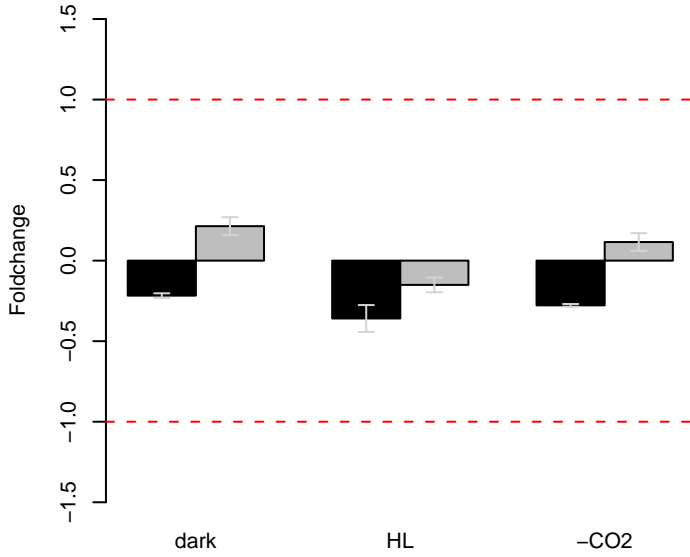
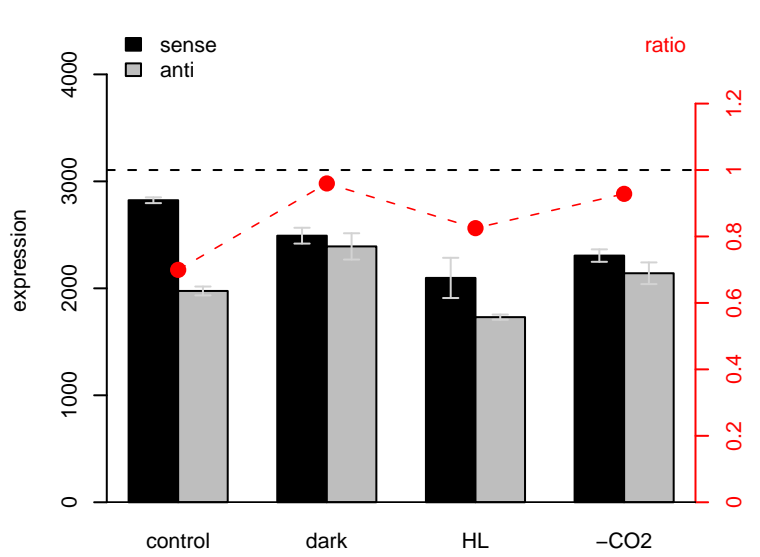
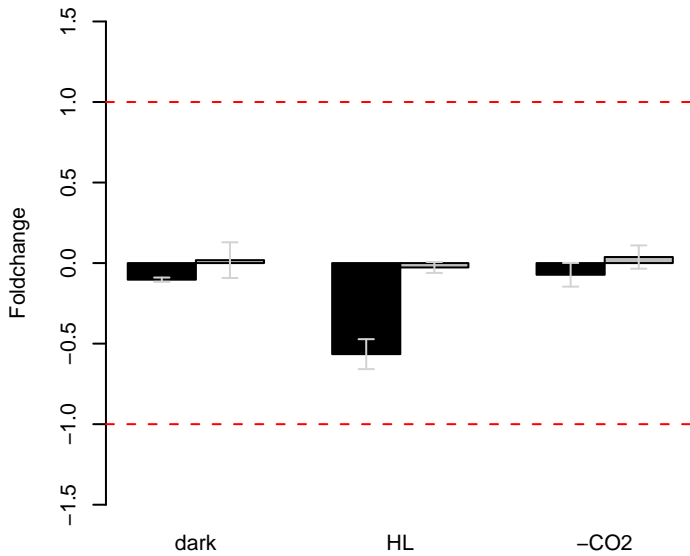
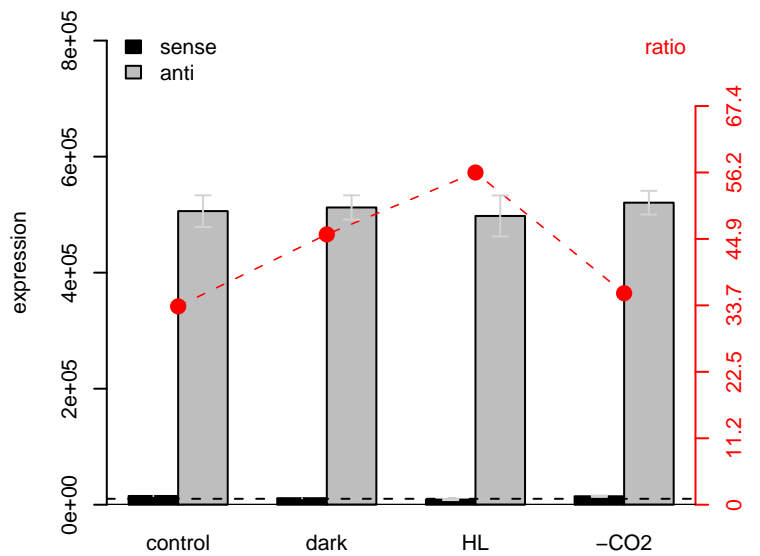
**ssr7084****pSYSA\_147****sli7089****pSYSA\_153****slr7092****pSYSA\_158**

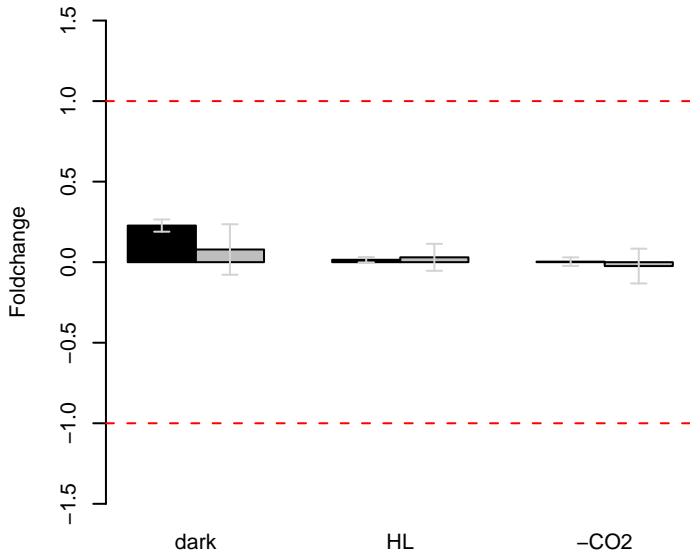
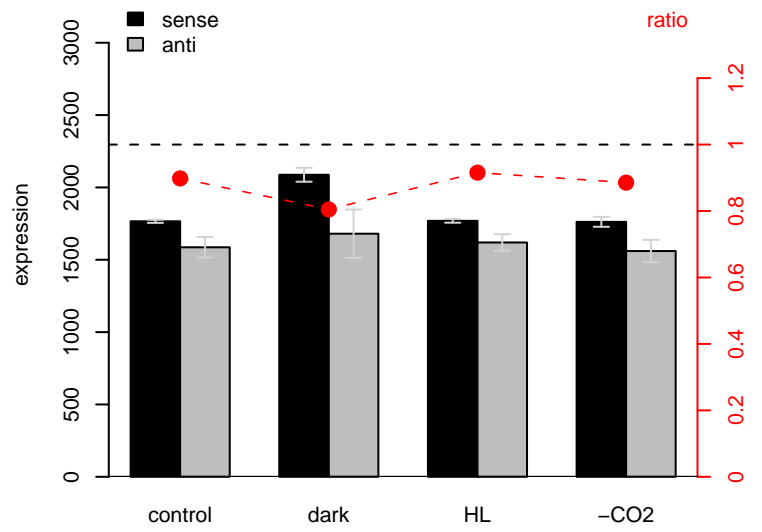
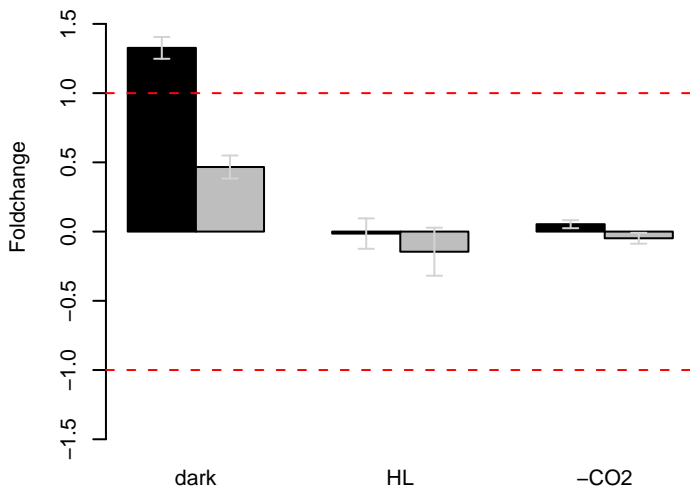
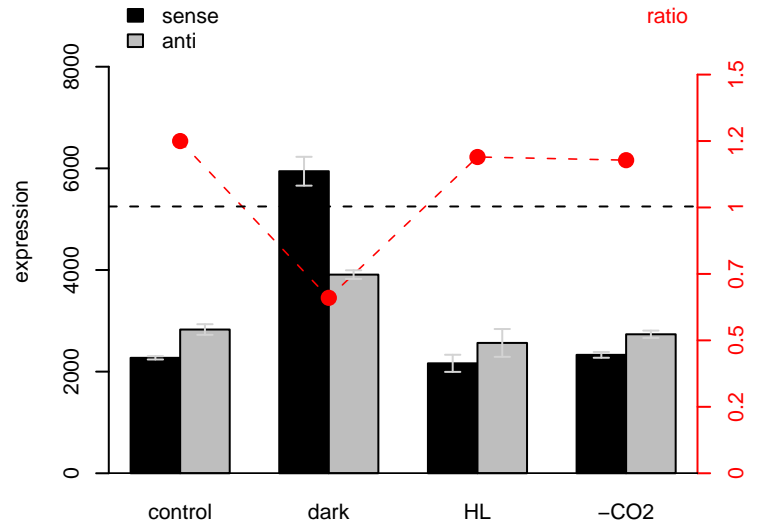
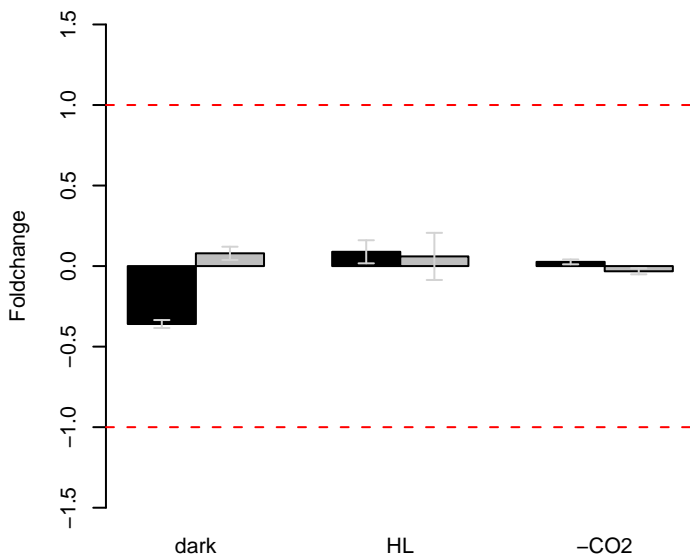
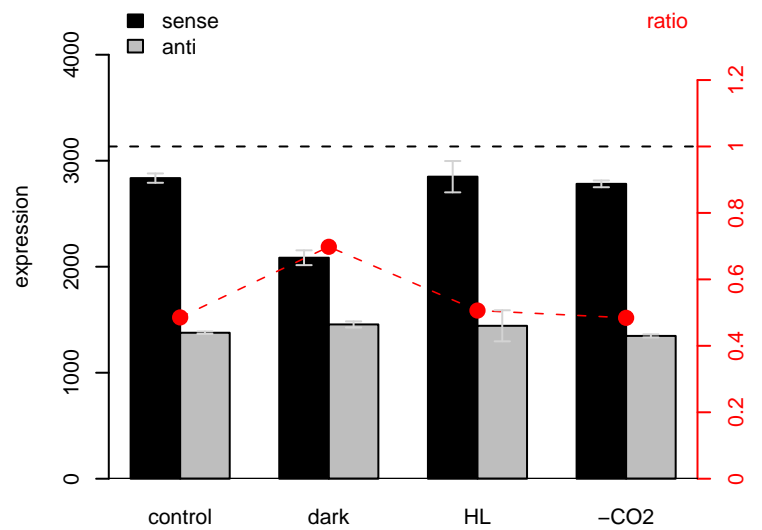
**slr7092****pSYSA\_158****slr7002****pSYSA\_3****slr7096****pSYSA\_208**

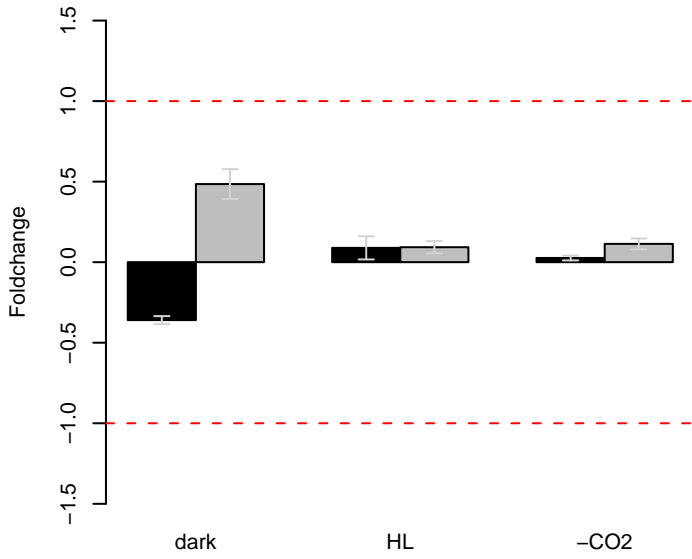
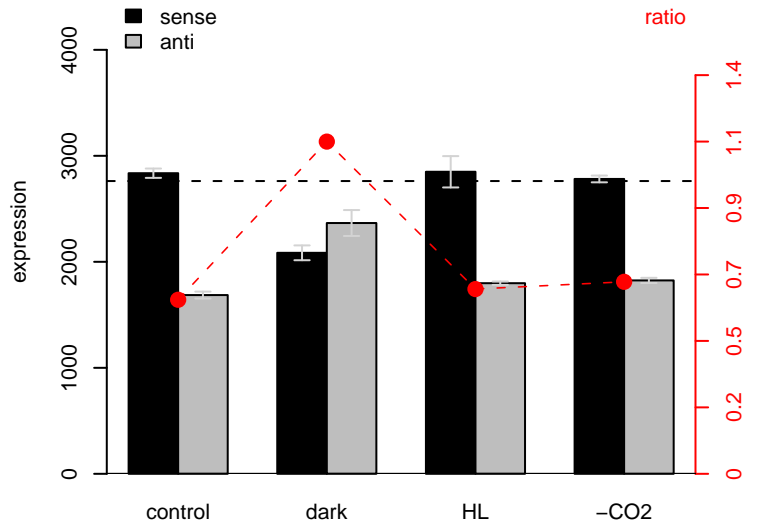
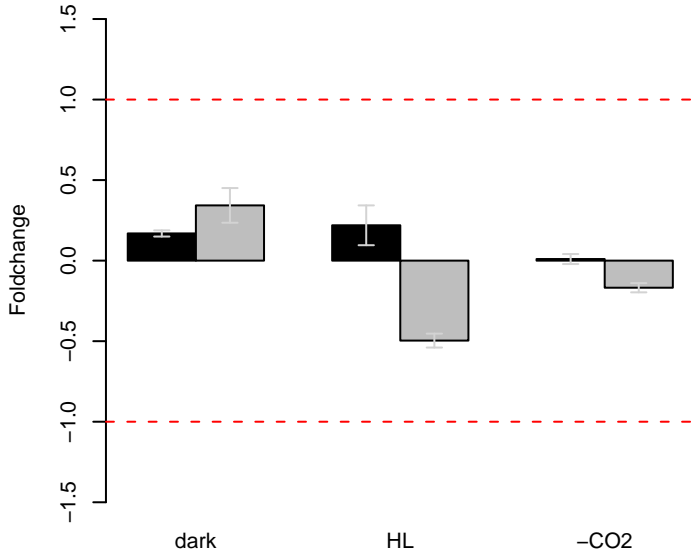
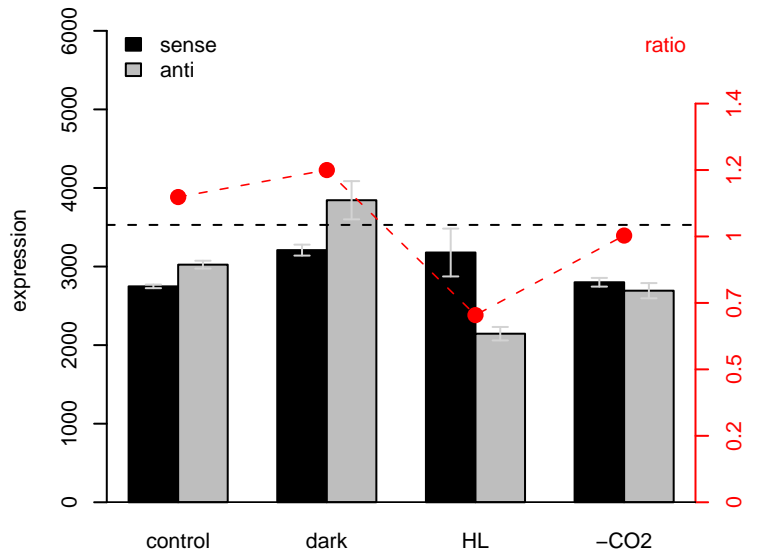
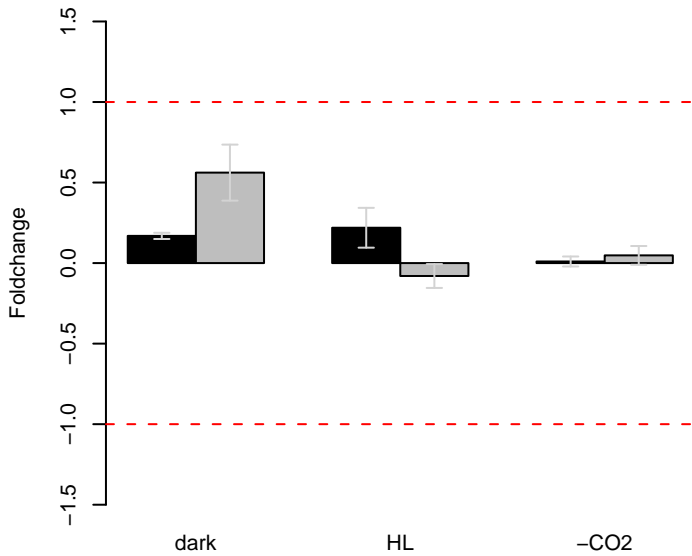
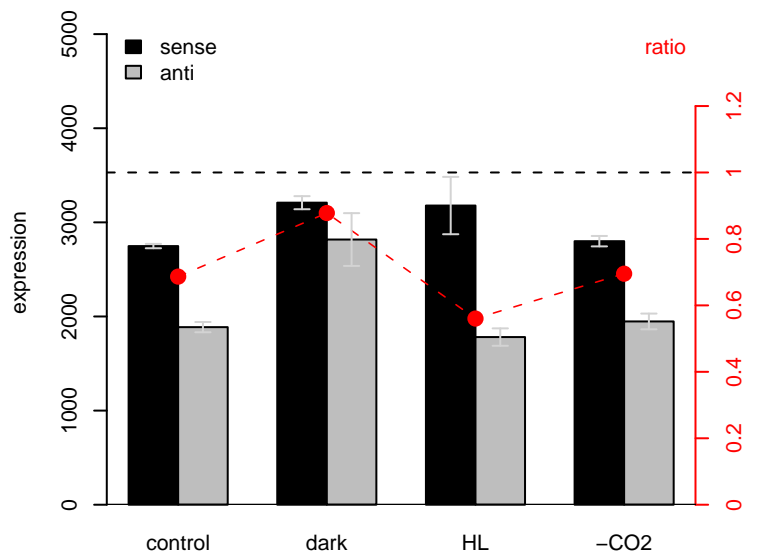


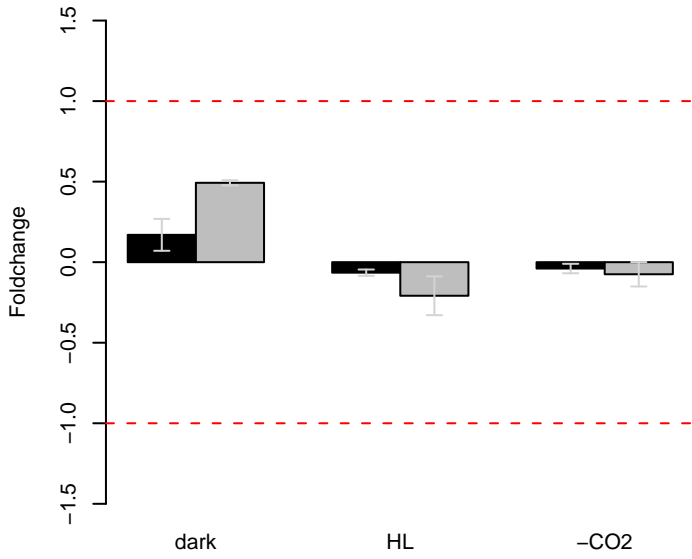
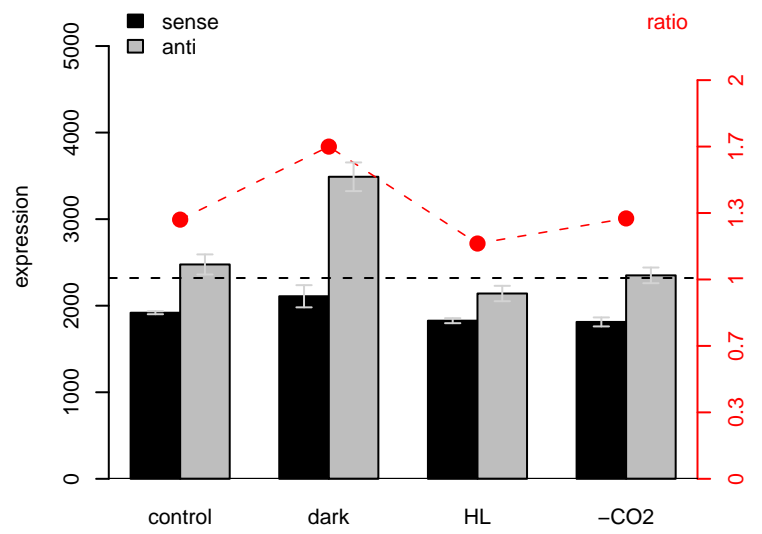
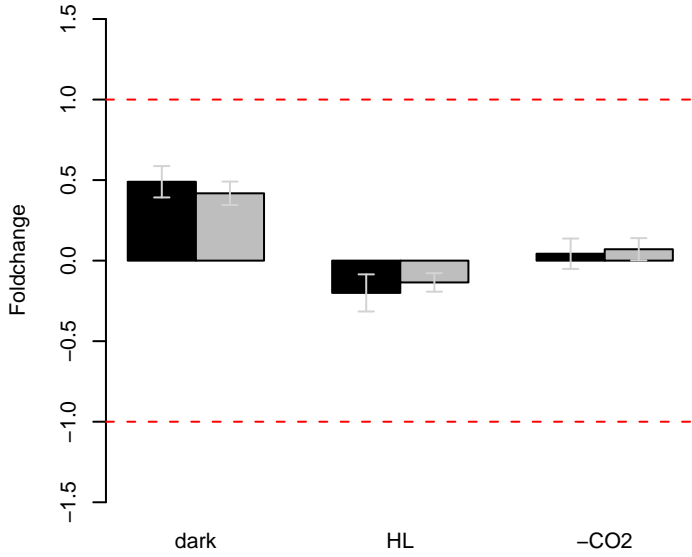
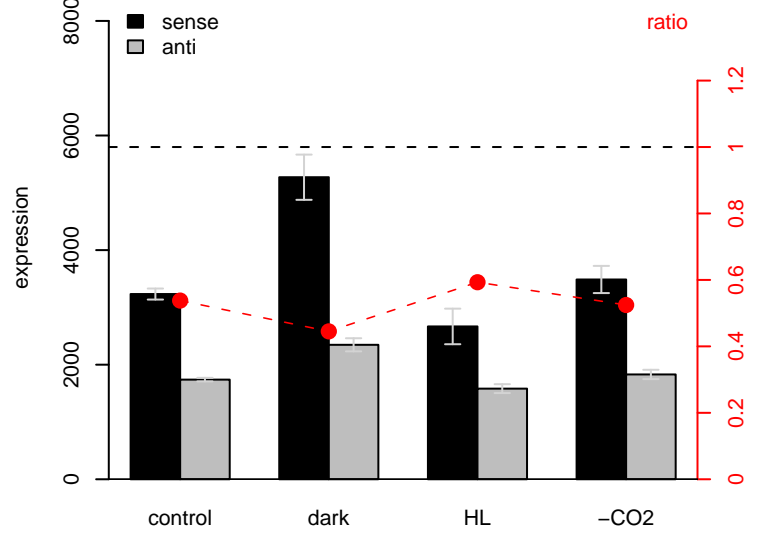
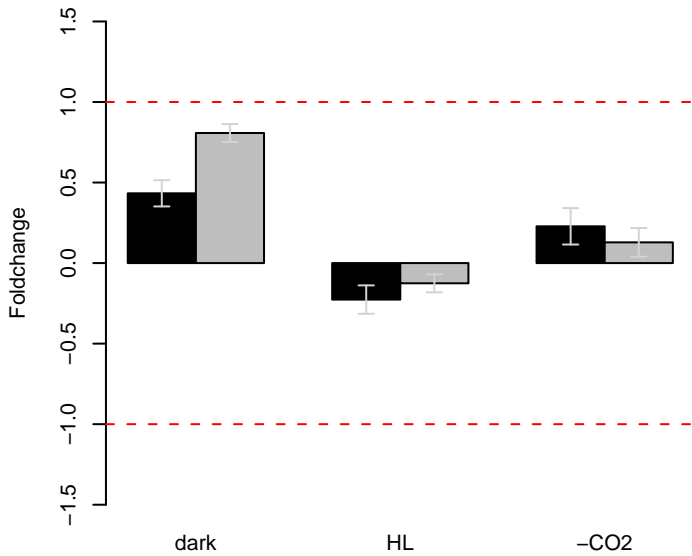
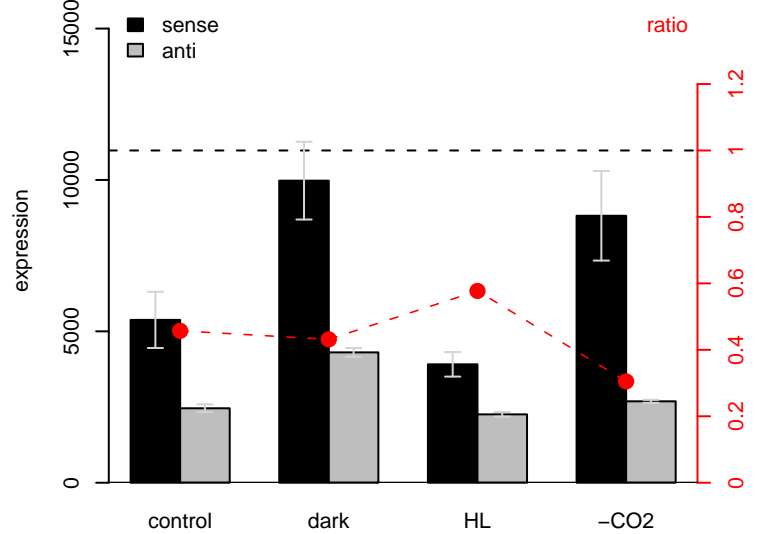
**slr7098****pSYSA\_211****slr7098****pSYSA\_211****slr7102****pSYSA\_218**

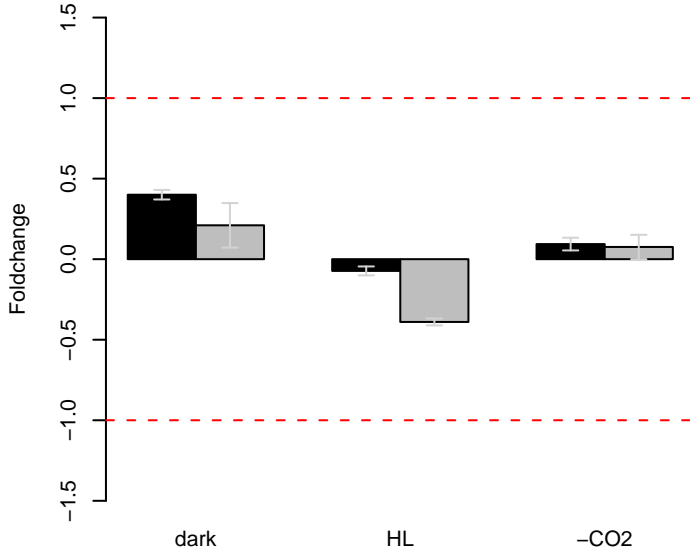
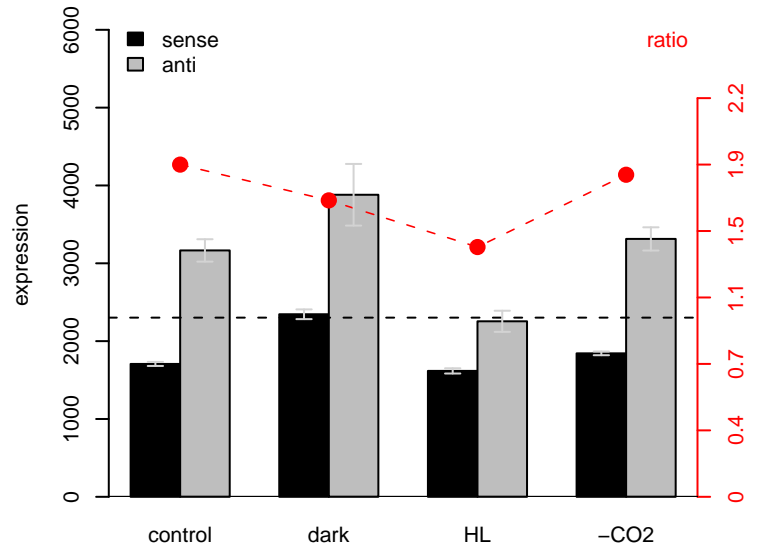
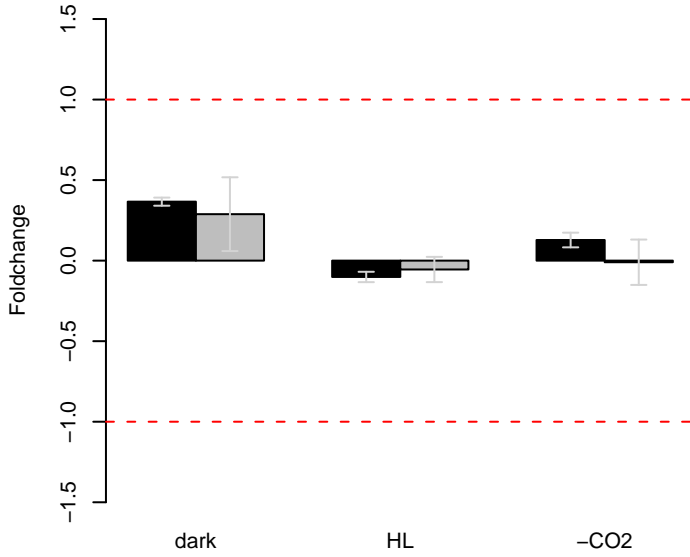
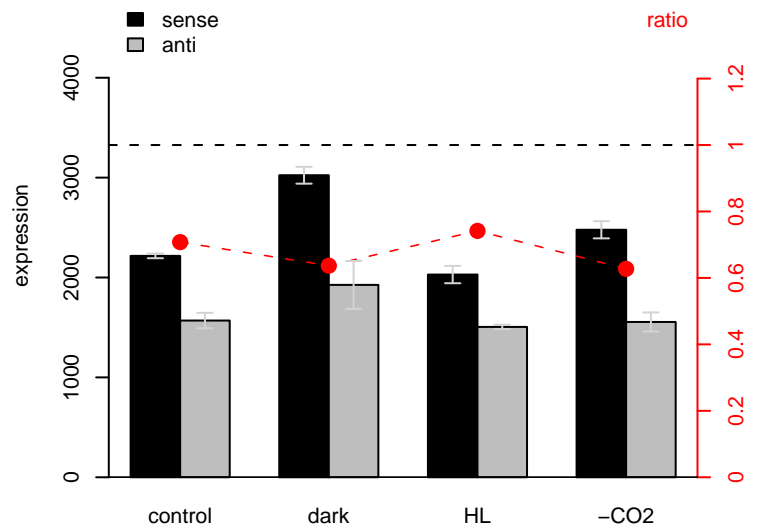
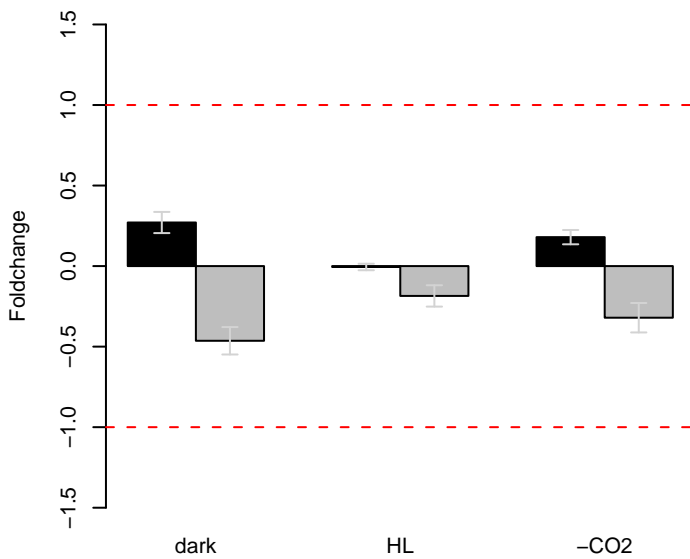
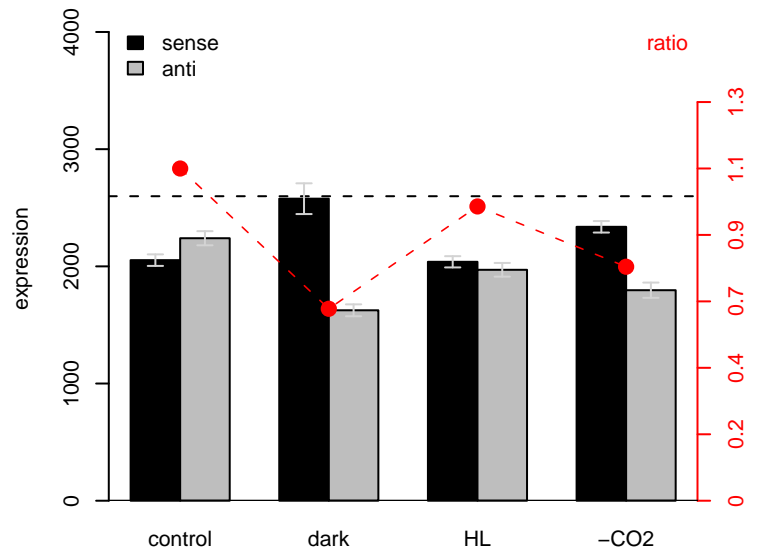
**ssl7022****pSYSA\_41****ssl7022****pSYSA\_41****slr7023****pSYSA\_44**

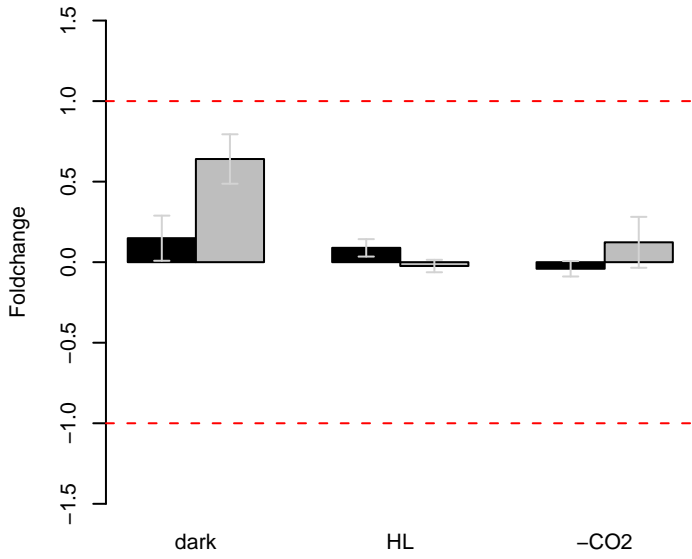
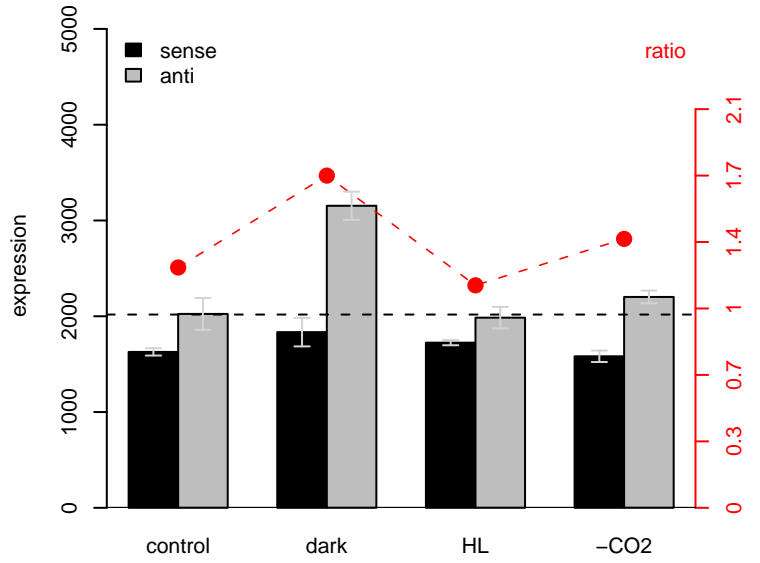
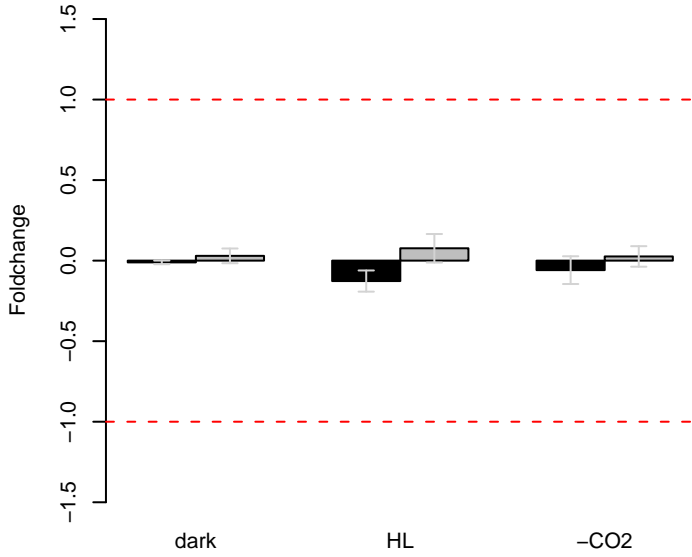
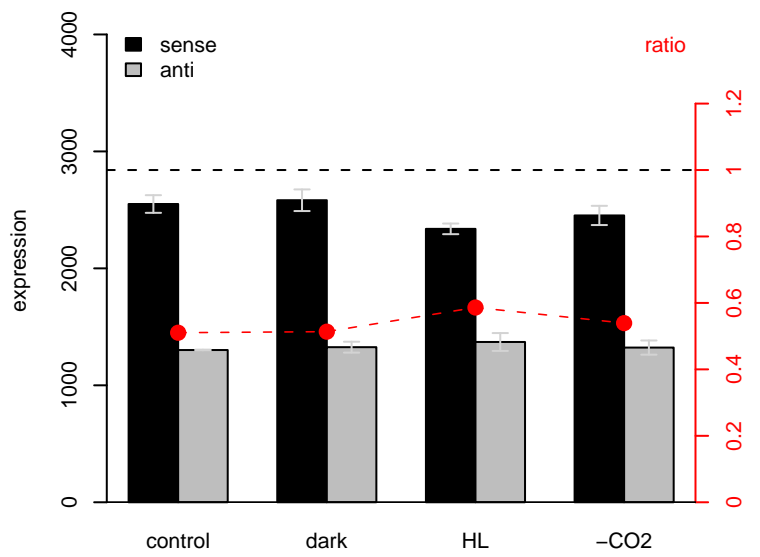
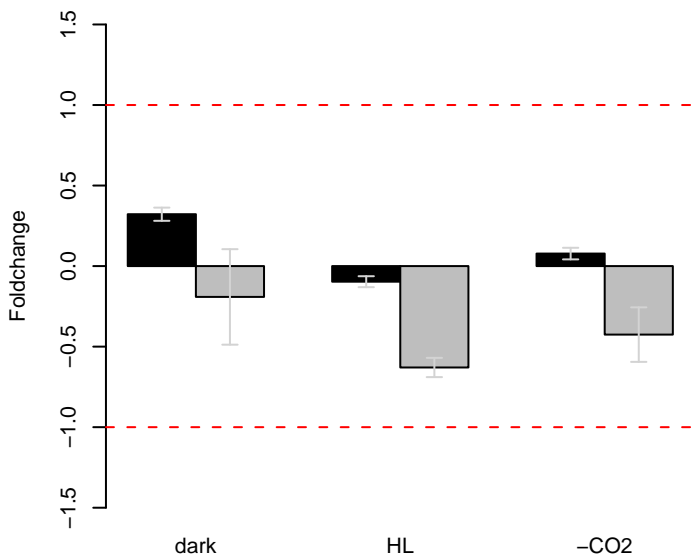
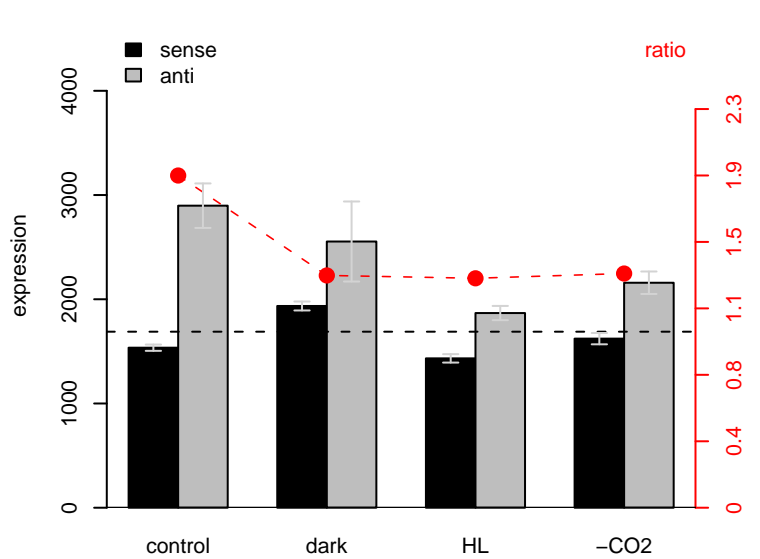
**slr7023****pSYSA\_44****slr7025****pSYSA\_48****ssr7036****pSYSA\_61**

**slr7037****pSYSA\_63****slr7005****pSYSA\_6****slr7041****pSYSA\_69**

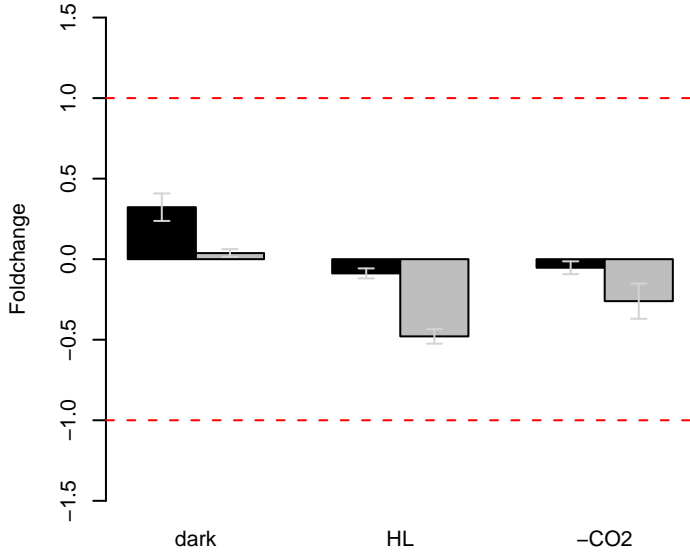
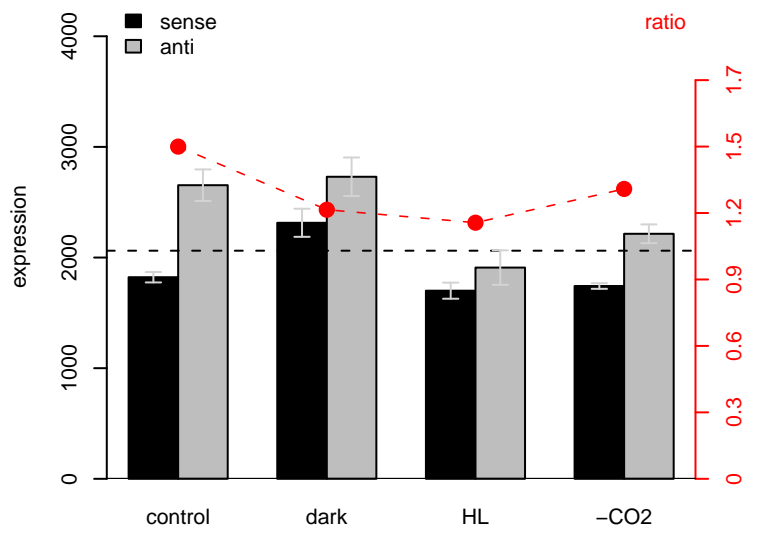
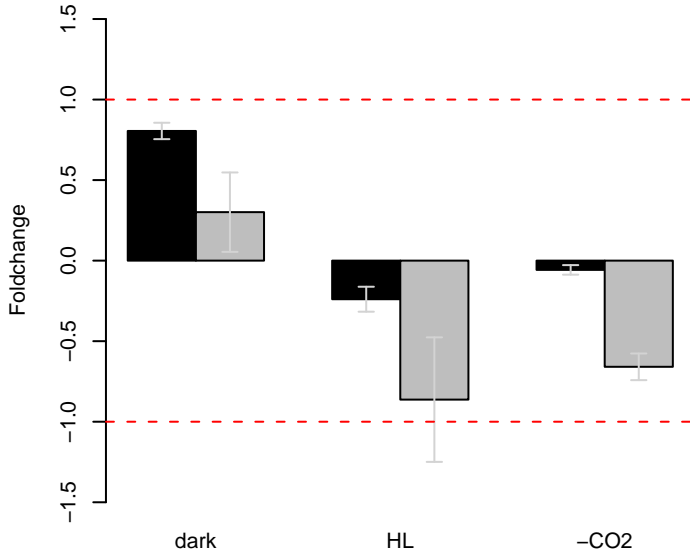
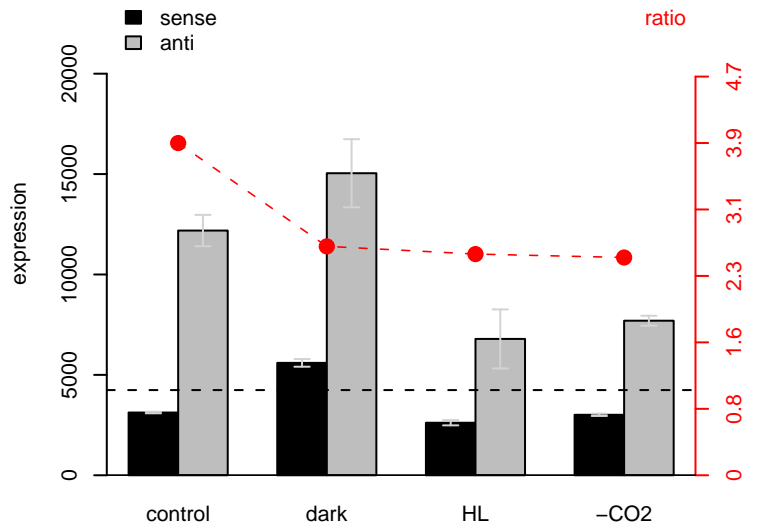
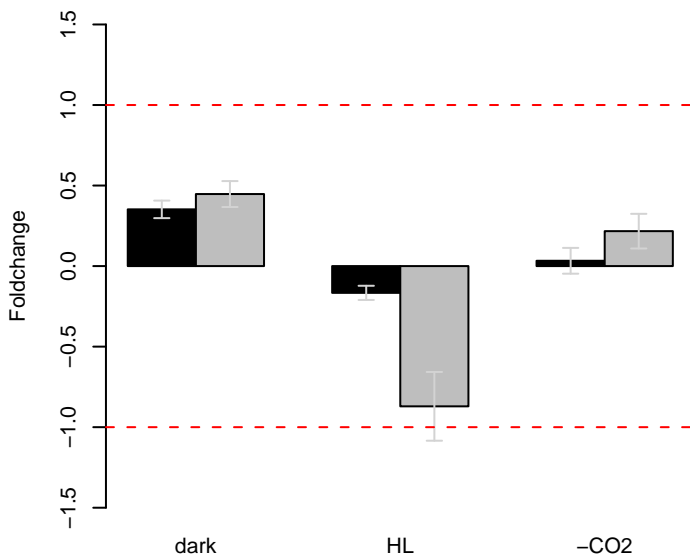
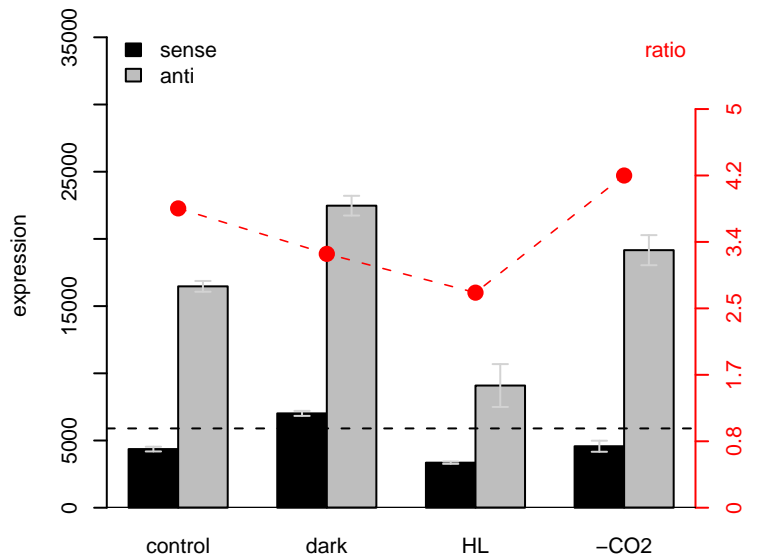
**slr7041****pSYSA\_69****sli7044****pSYSA\_74****sli7044****pSYSA\_74**

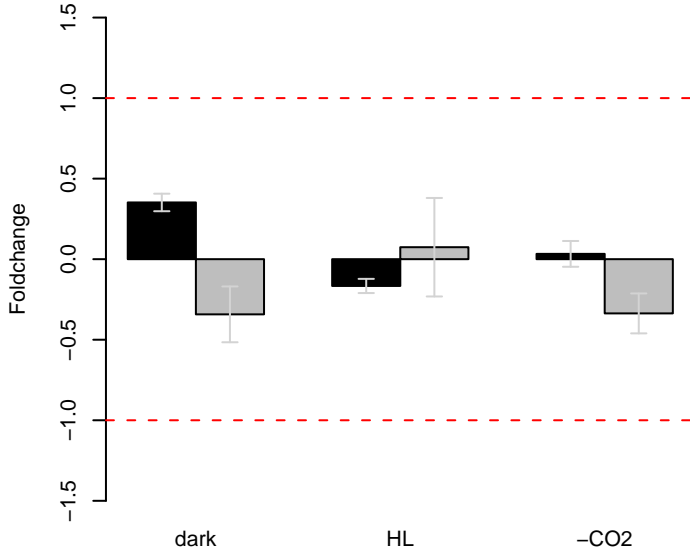
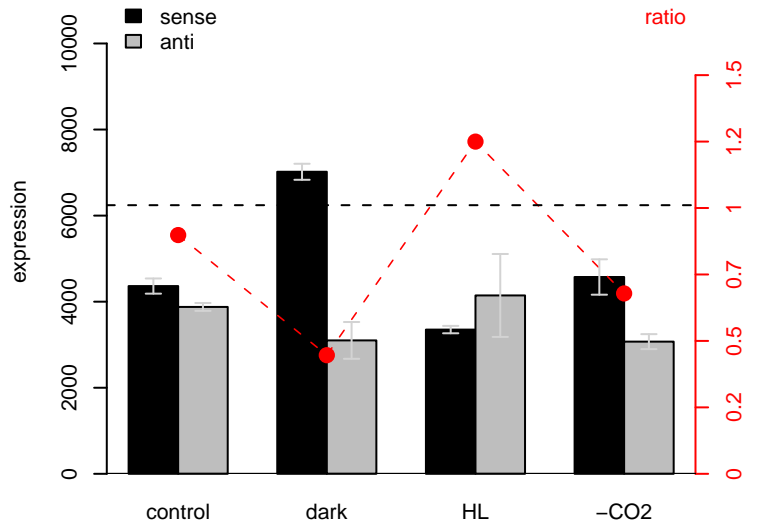
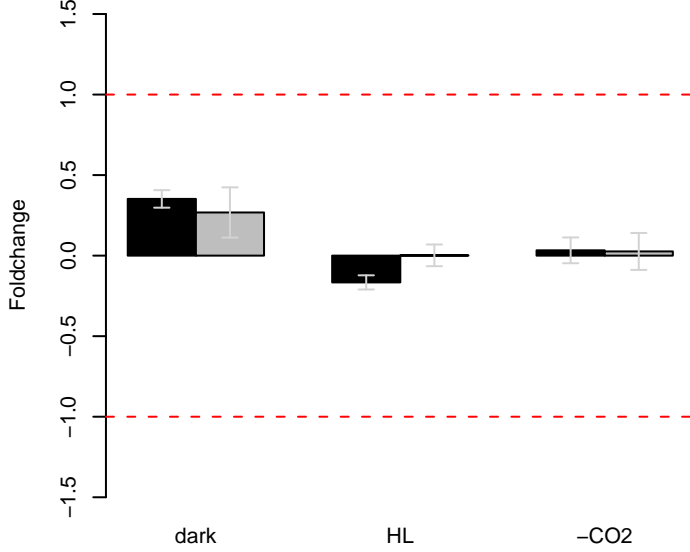
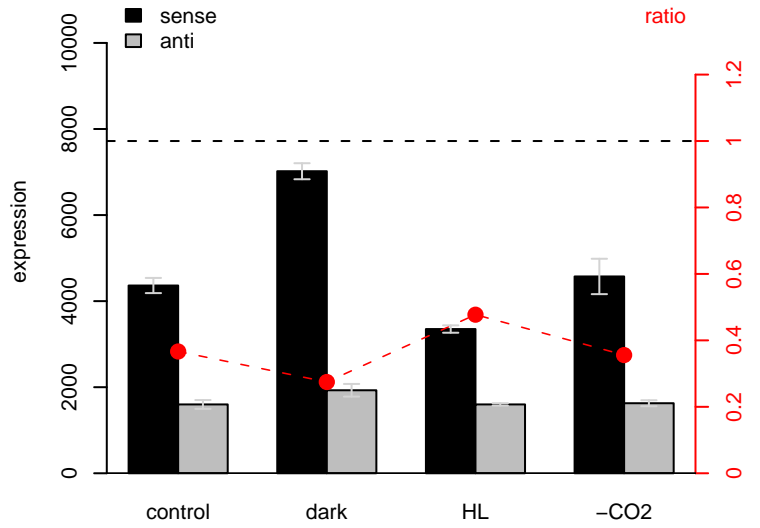
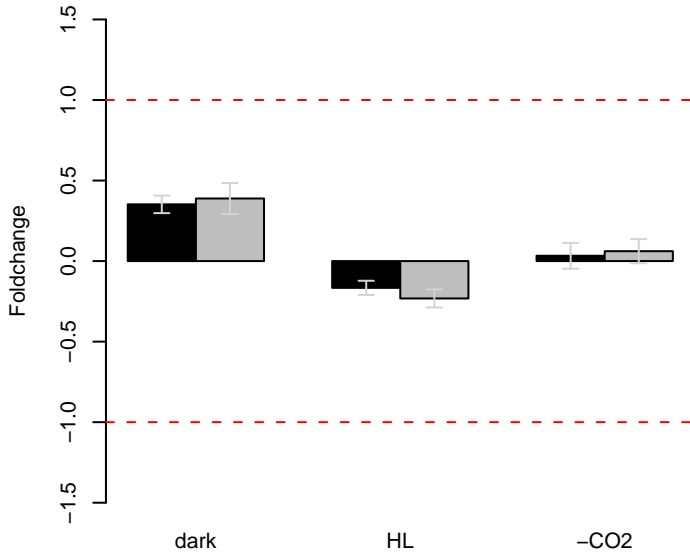
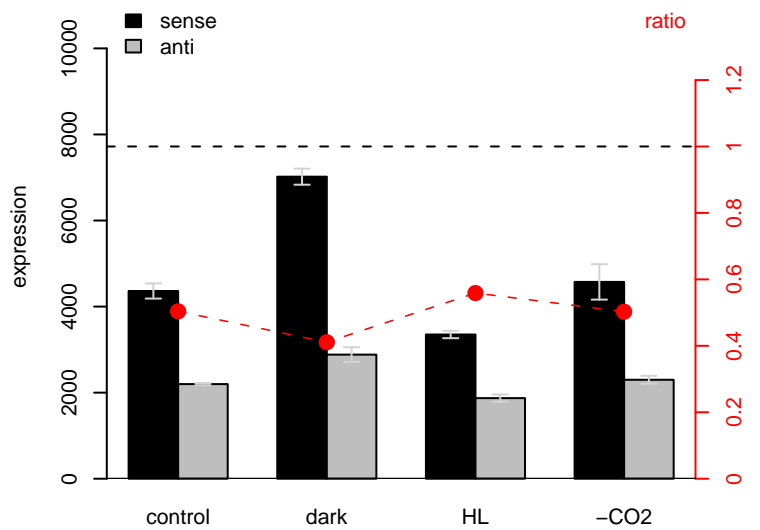
**sli7050****pSYSA\_92****slr7052****pSYSA\_95****ssl7053****pSYSA\_97**

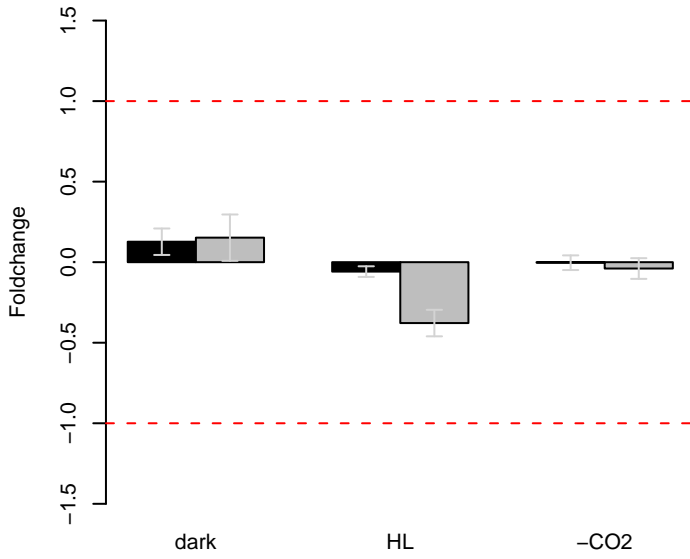
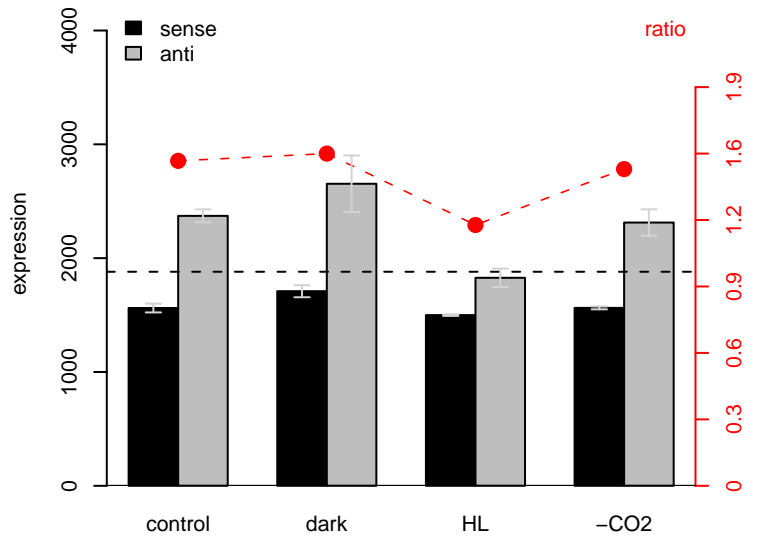
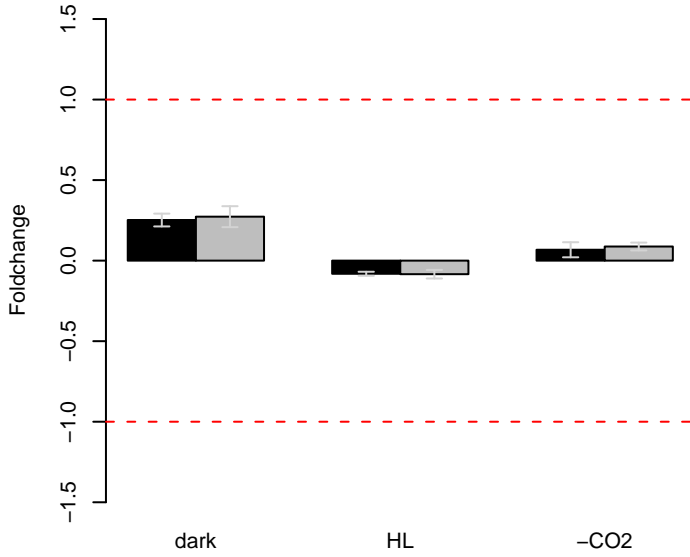
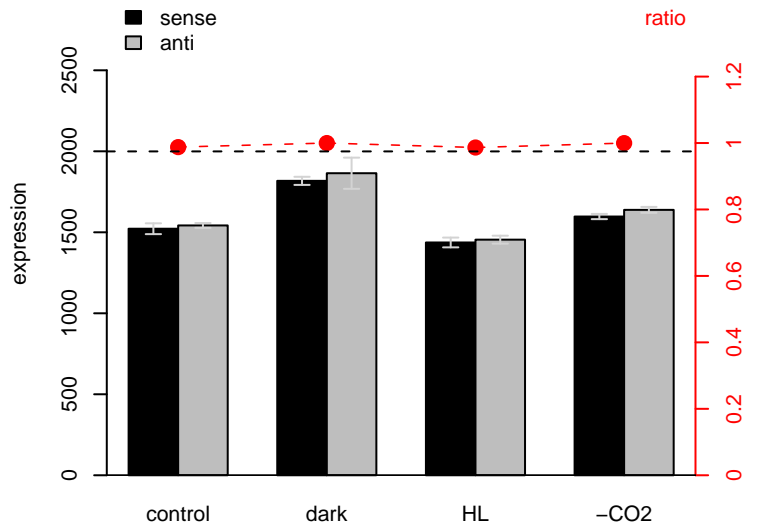
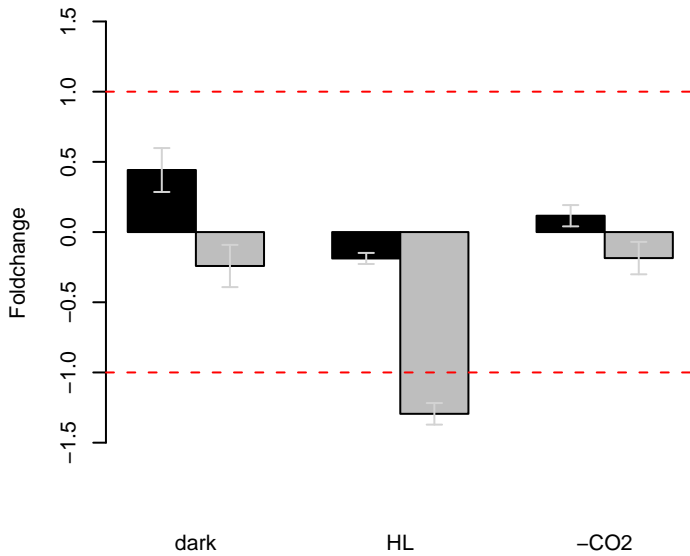
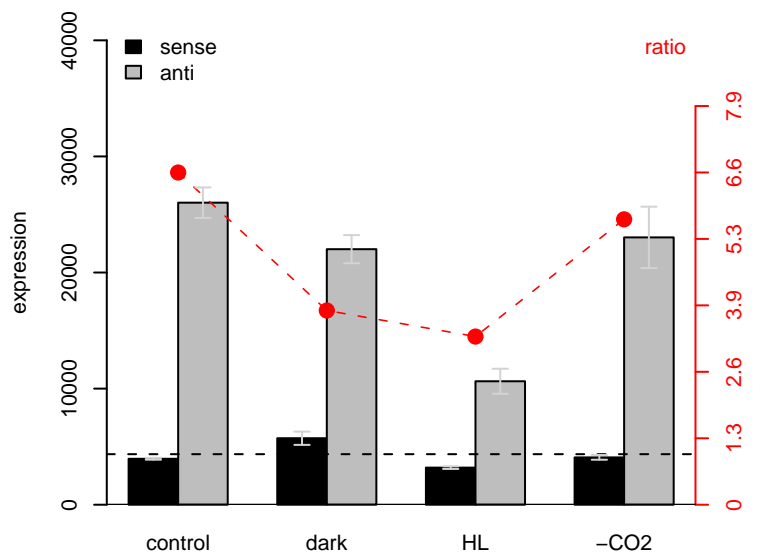
**sll8009****pSYSG\_12****slr8016****pSYSG\_20****sll8018****pSYSG\_24**

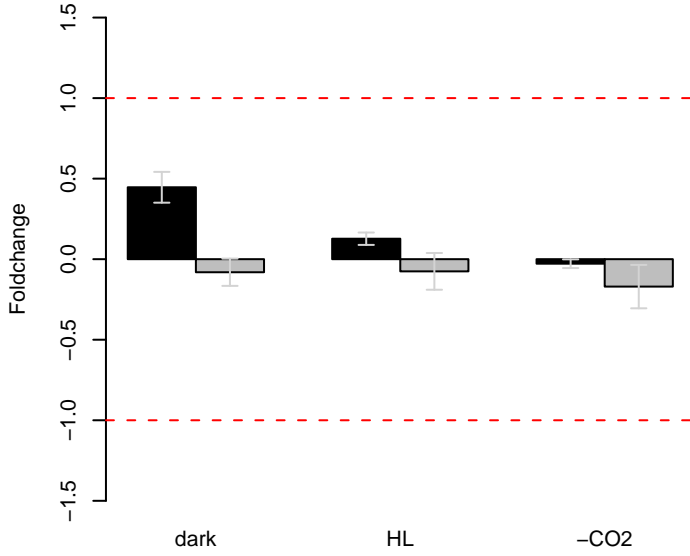
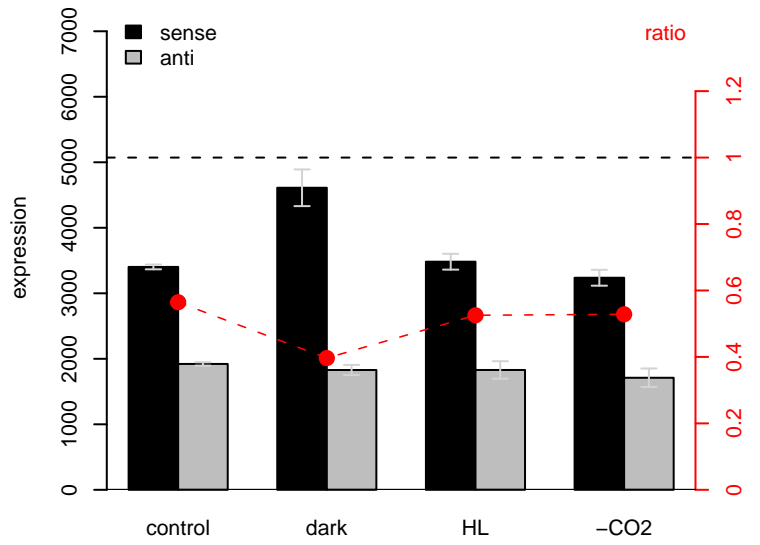
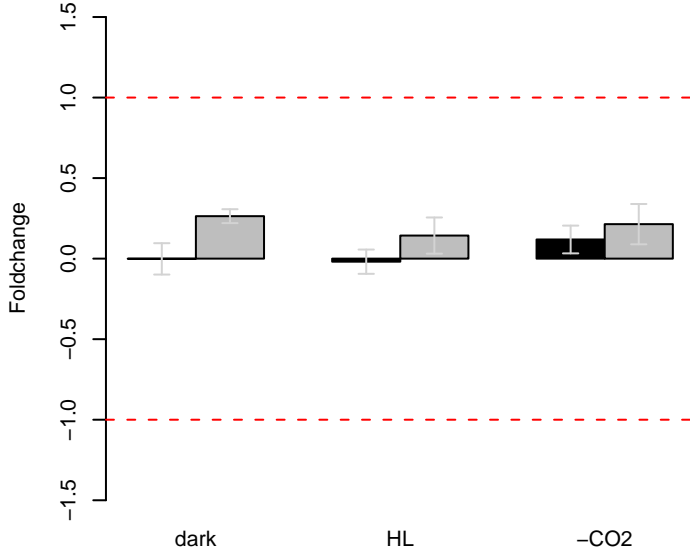
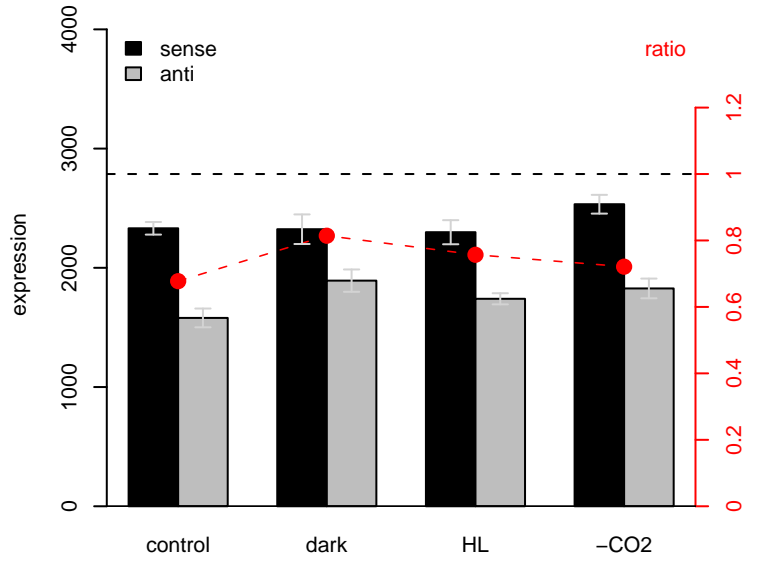
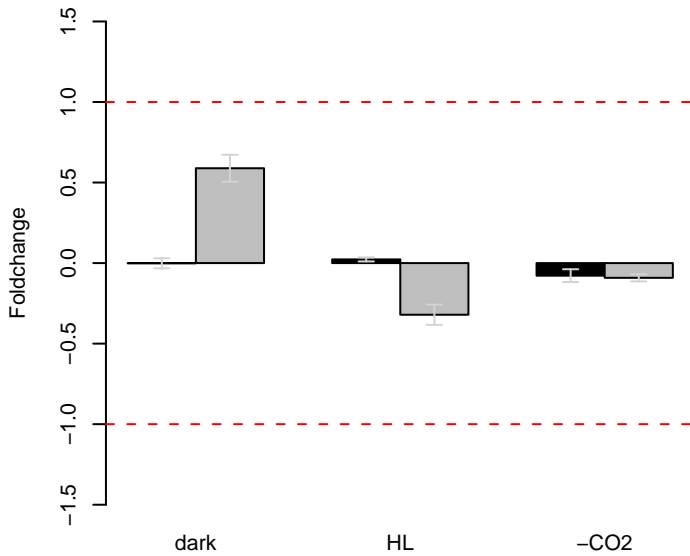
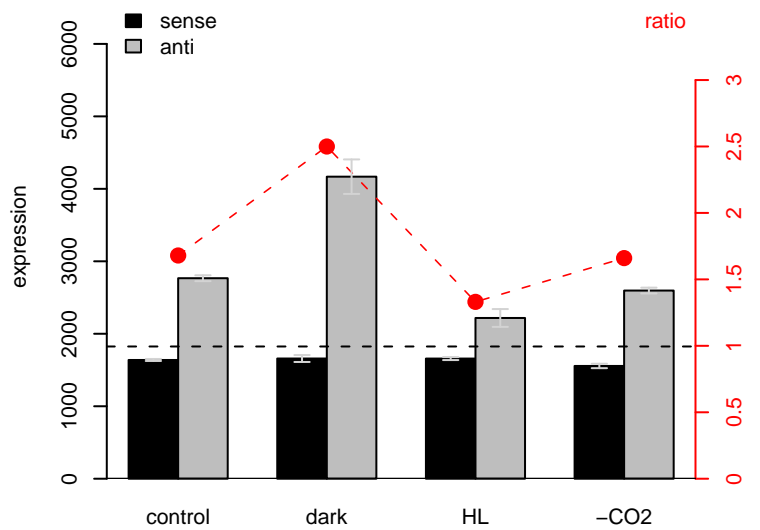
**sll8019****pSYSG\_28****sll8001****pSYSG\_2****sll8034****pSYSG\_48**

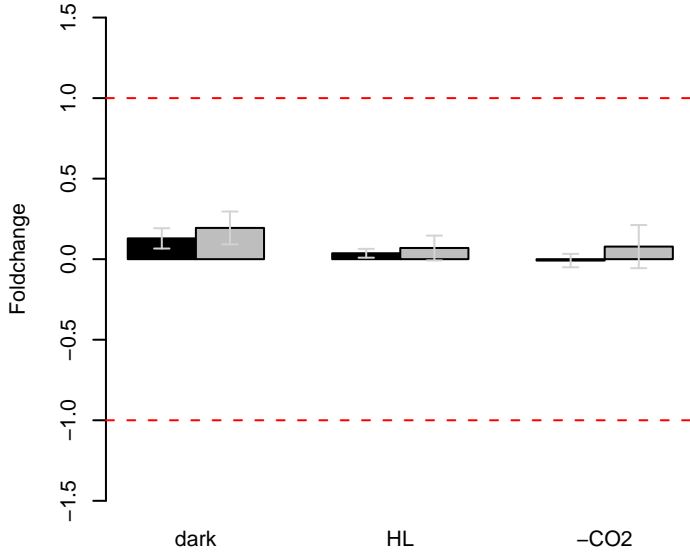
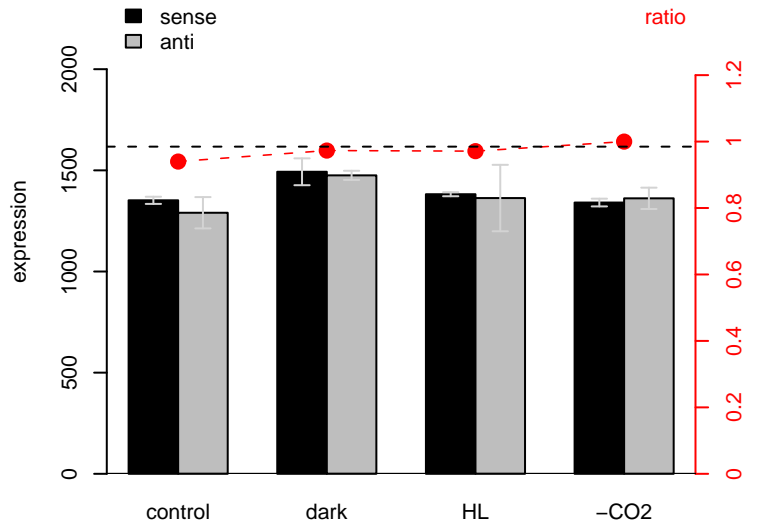
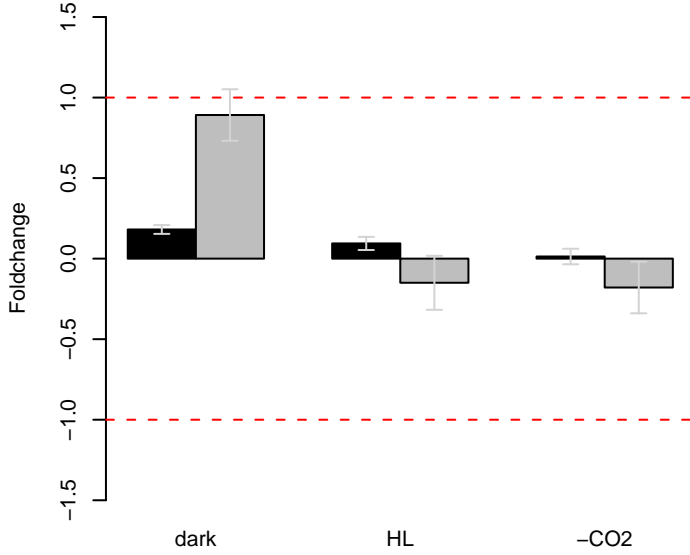
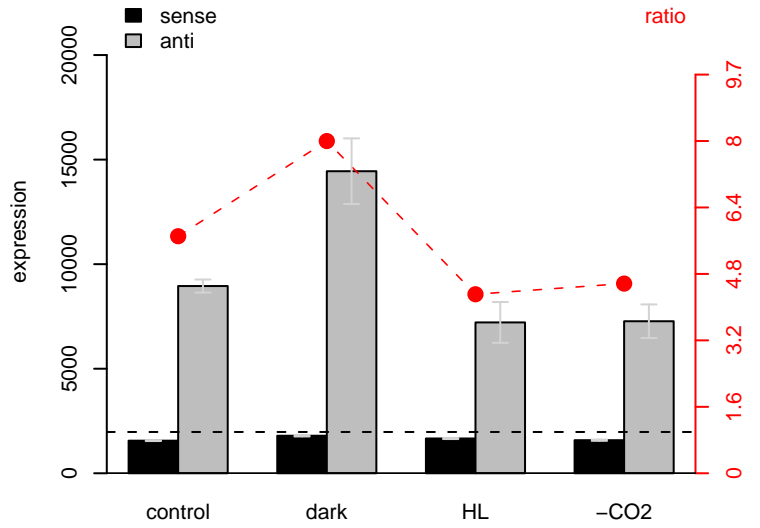
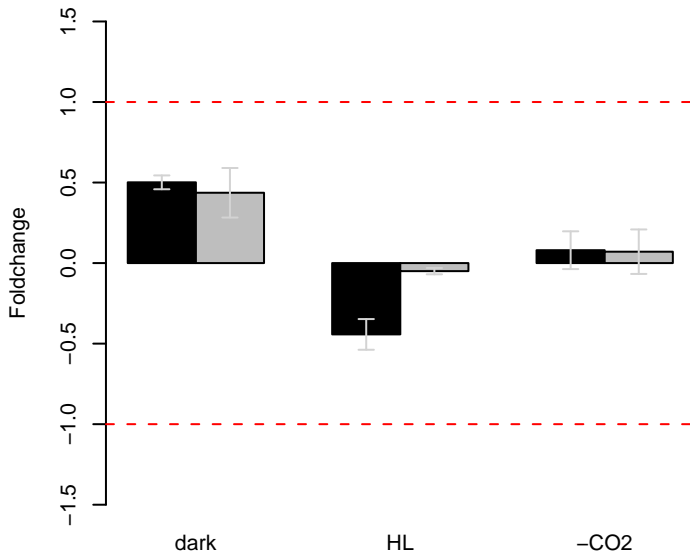
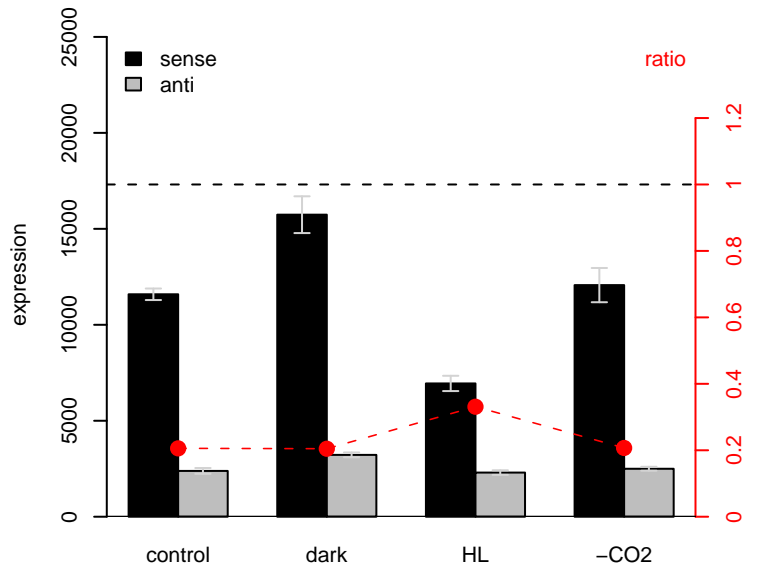


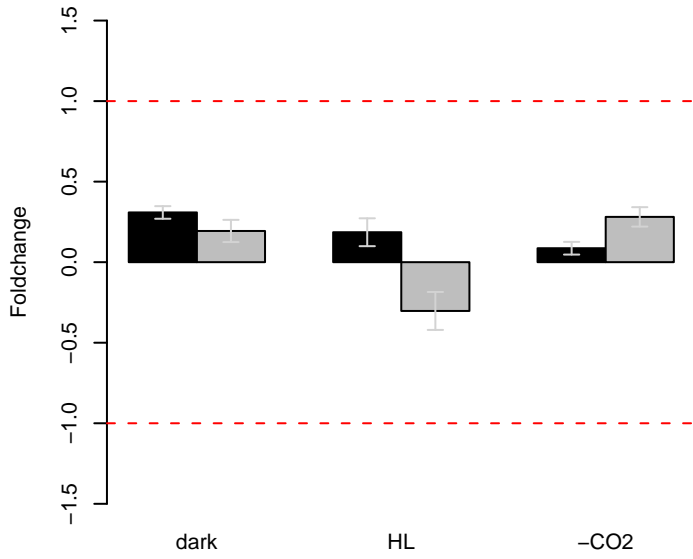
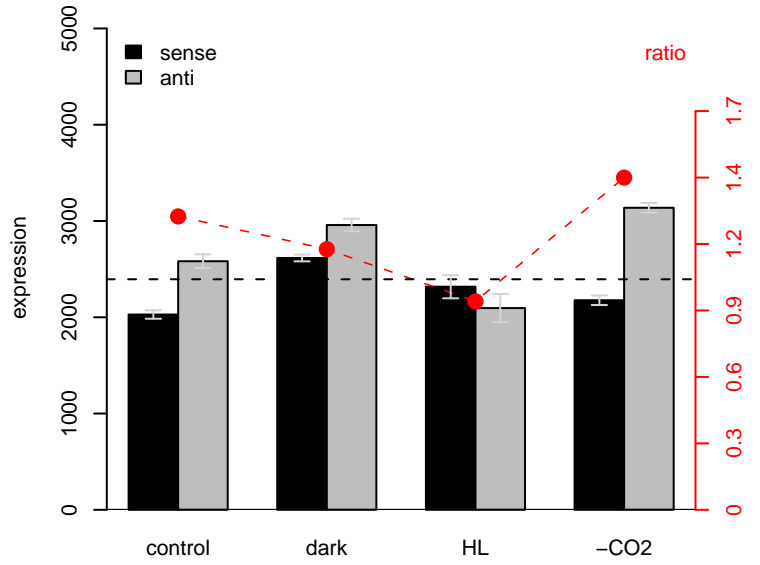
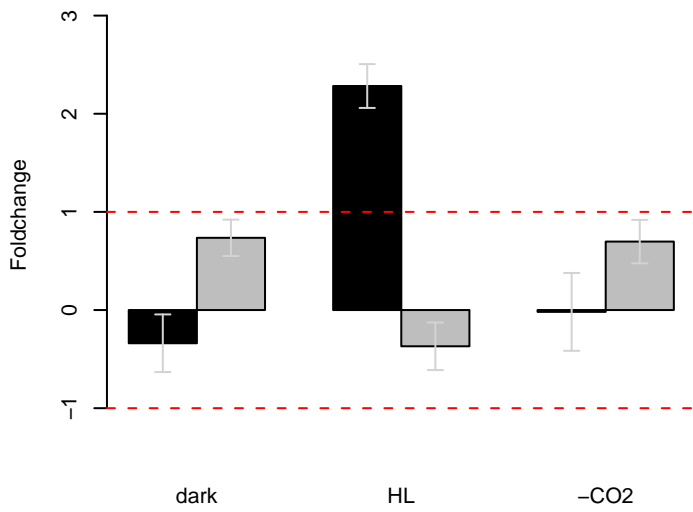
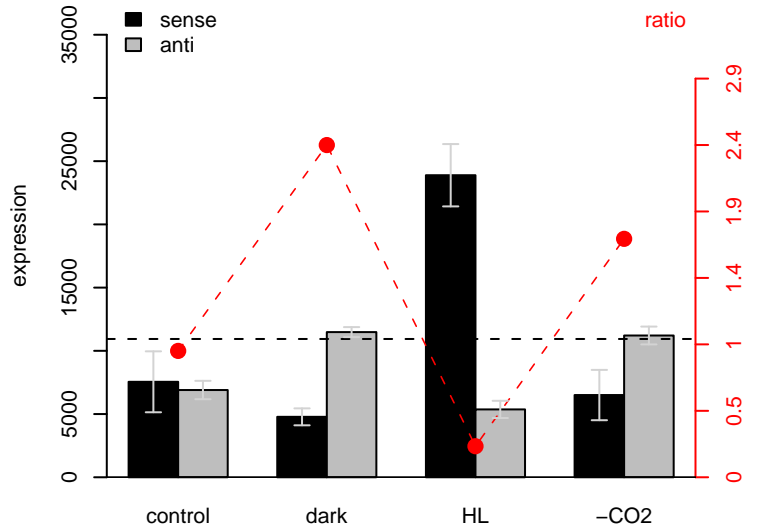
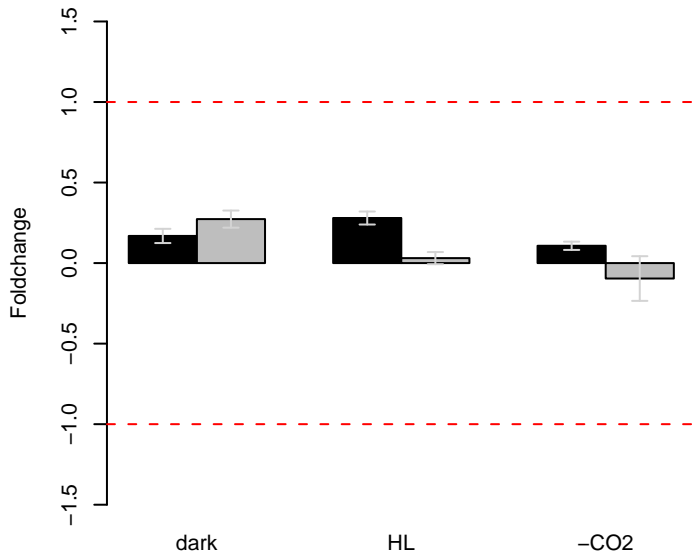
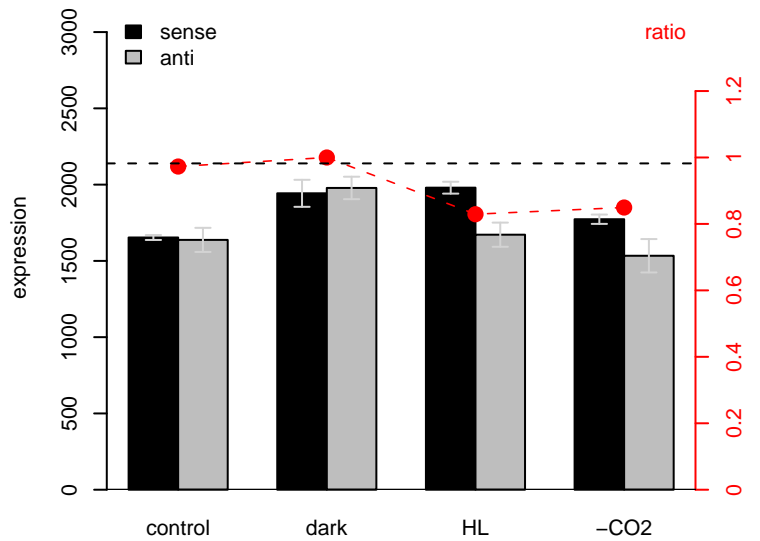
**slr8038****pSYSG\_54****slr8006****pSYSG\_8****slr5005****pSYSM\_8**

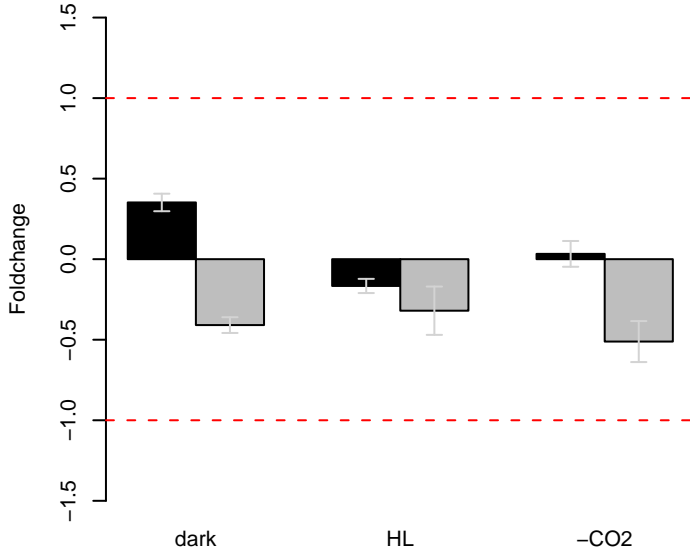
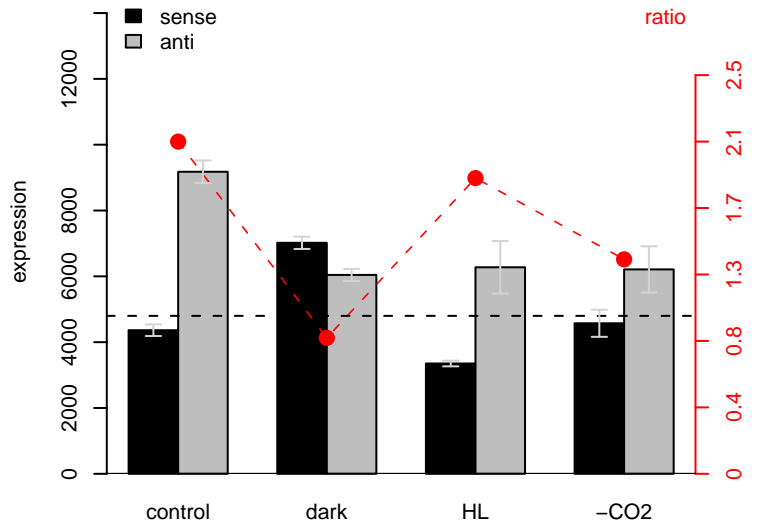
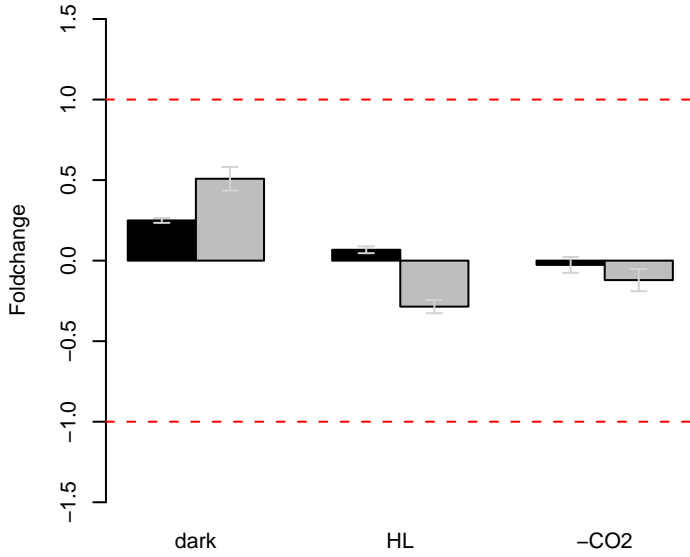
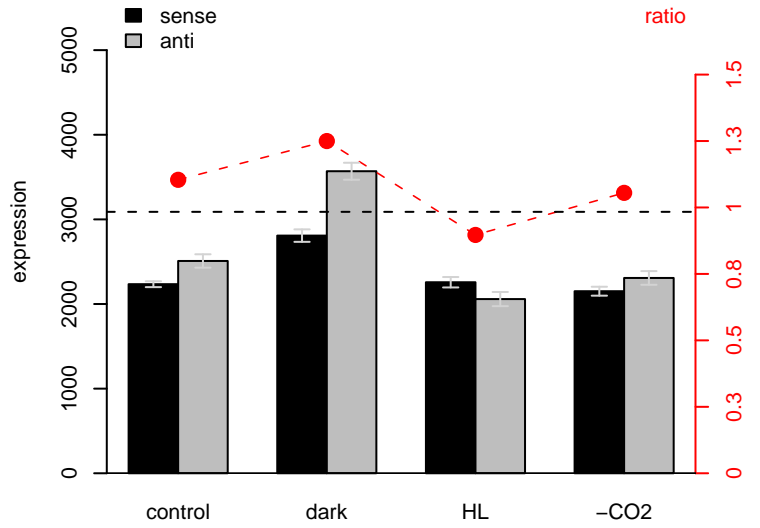
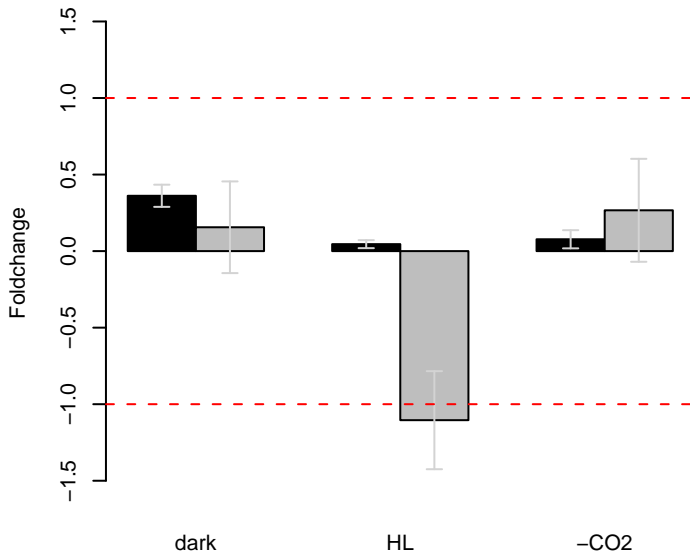
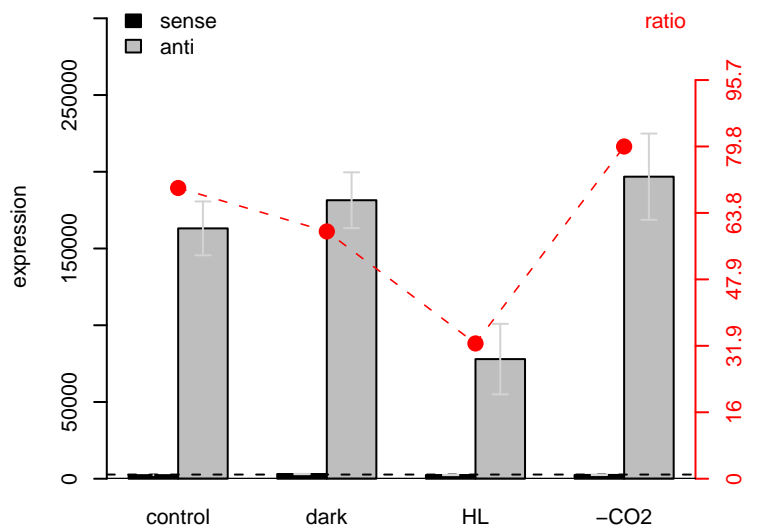
**slr5005****pSYSM\_8****slr5005****pSYSM\_8****slr5005****pSYSM\_8**

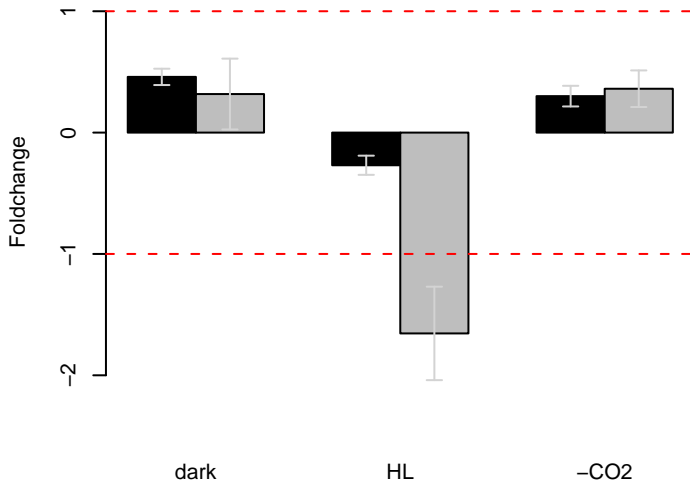
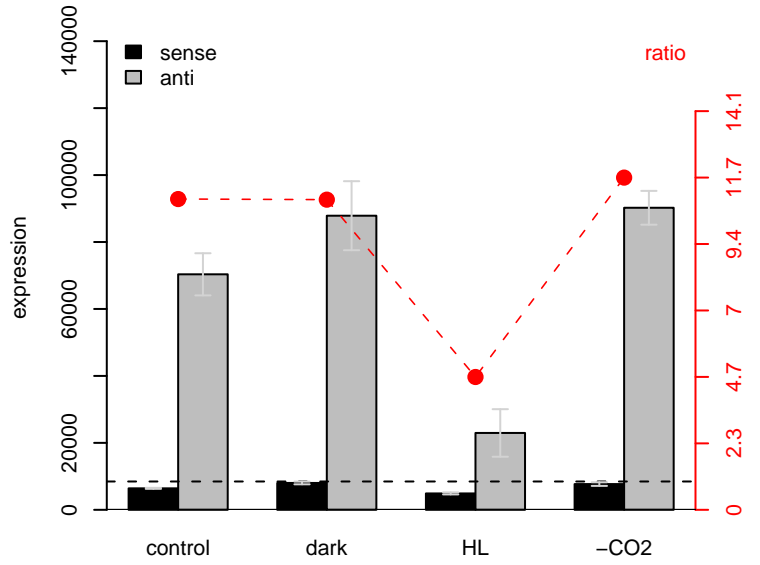
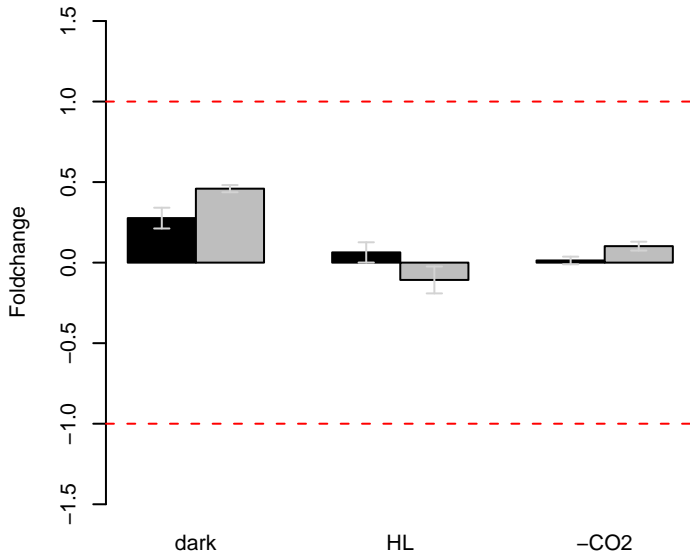
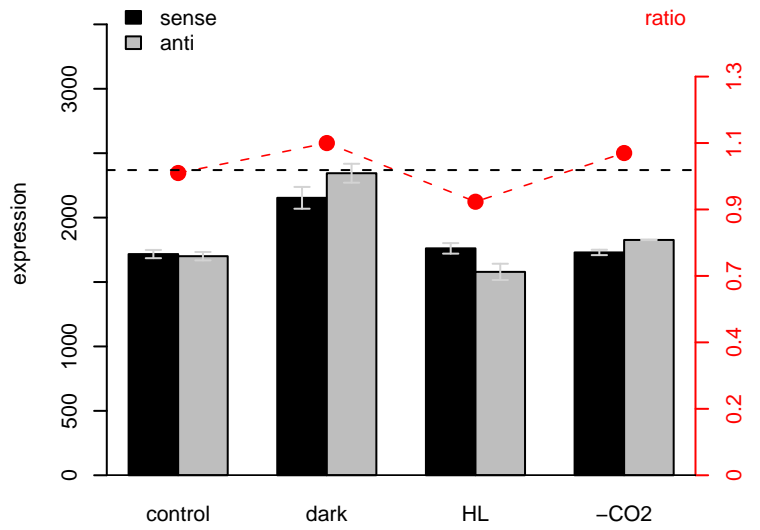
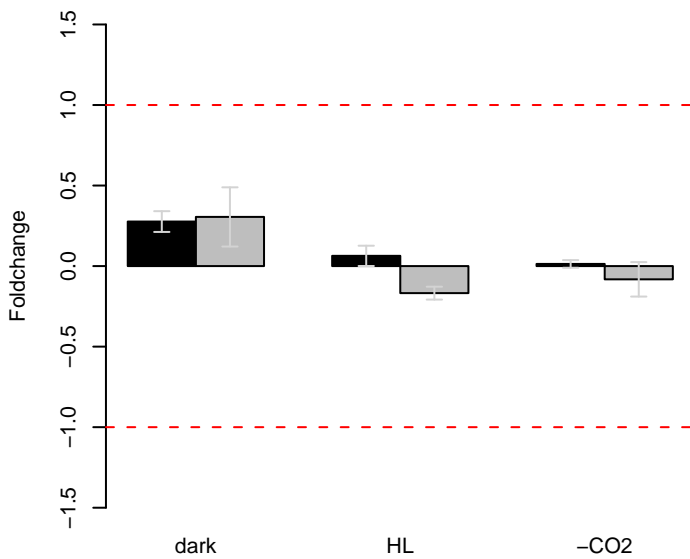
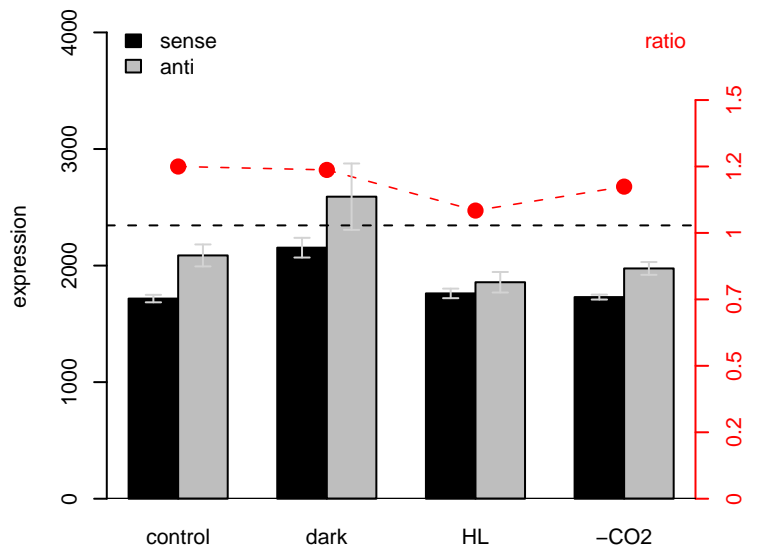
**ssl5100****pSYSM\_133****slr5112****pSYSM\_150****ssl5114****pSYSM\_154**

**slr5115****pSYSM\_156****ssr5121****pSYSM\_163****slr5013****pSYSM\_22**

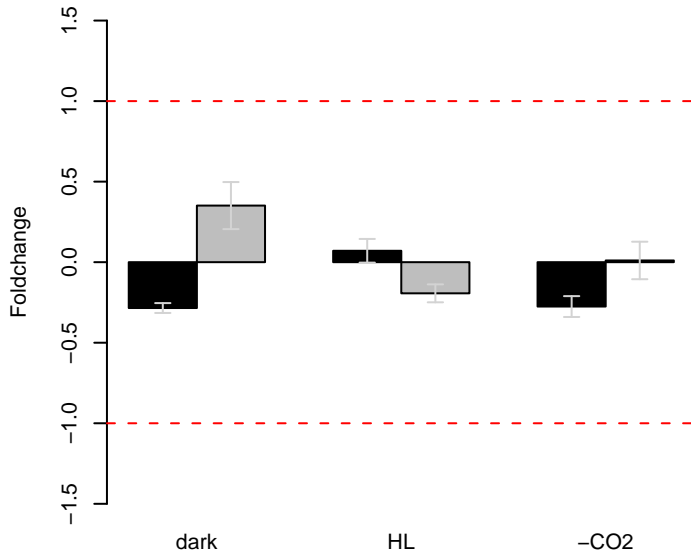
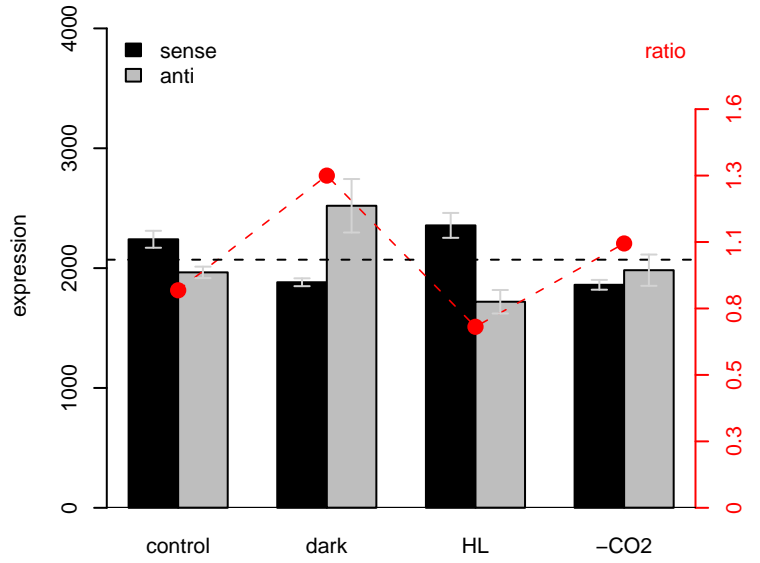
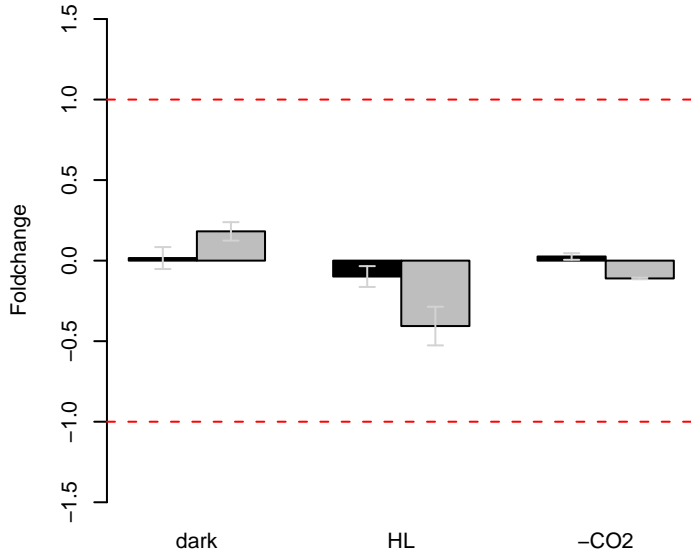
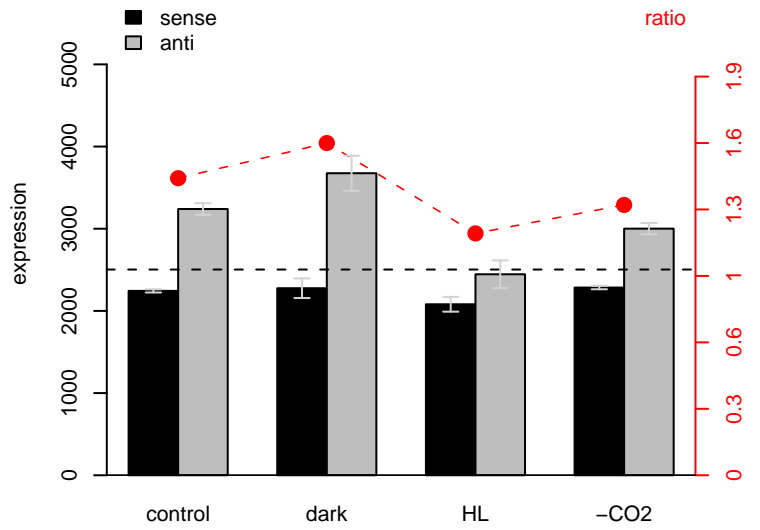
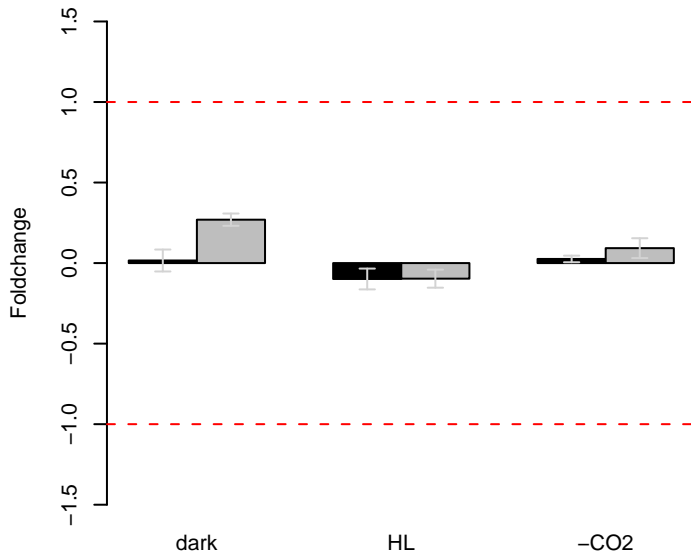
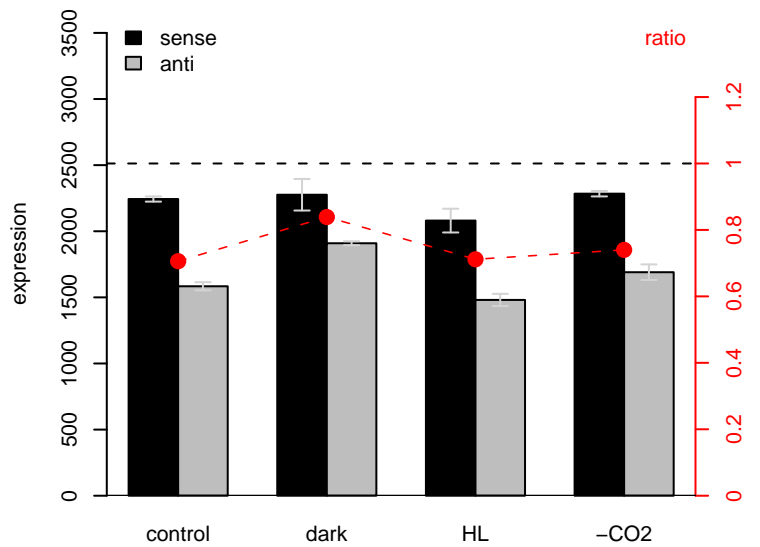
**sli5014****pSYSM\_24****sli5026****pSYSM\_37****ssi5027****pSYSM\_39**

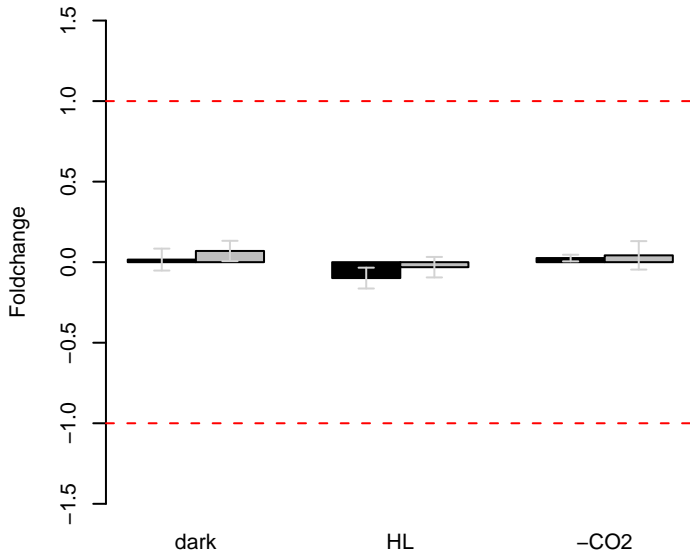
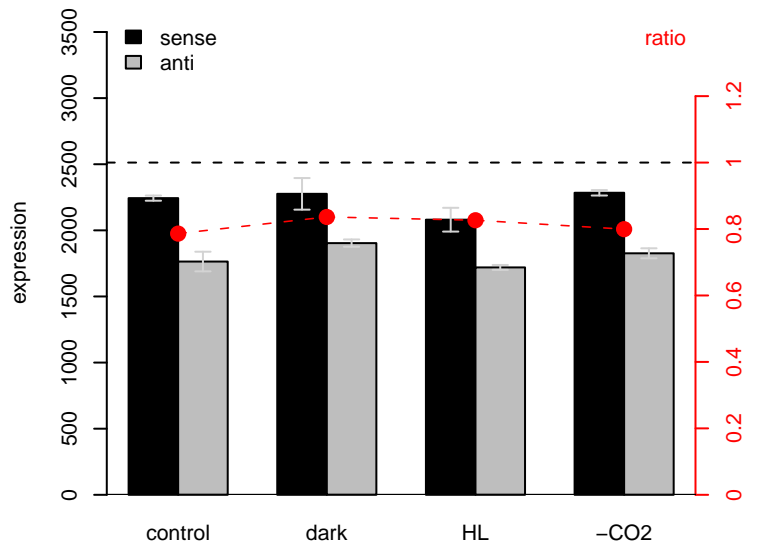
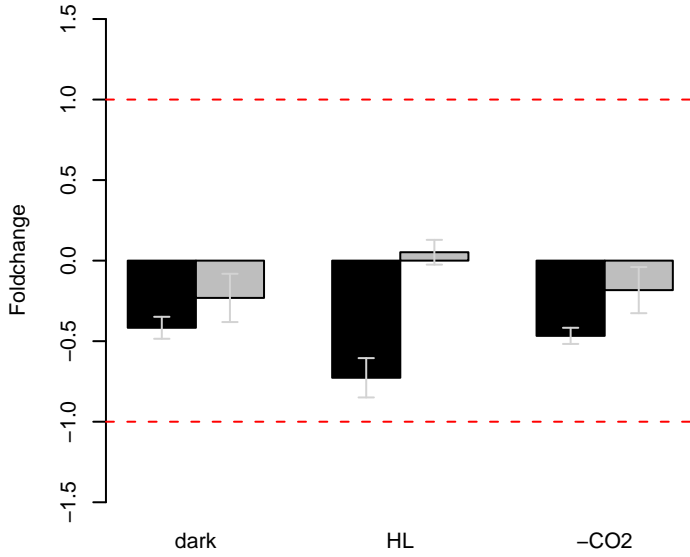
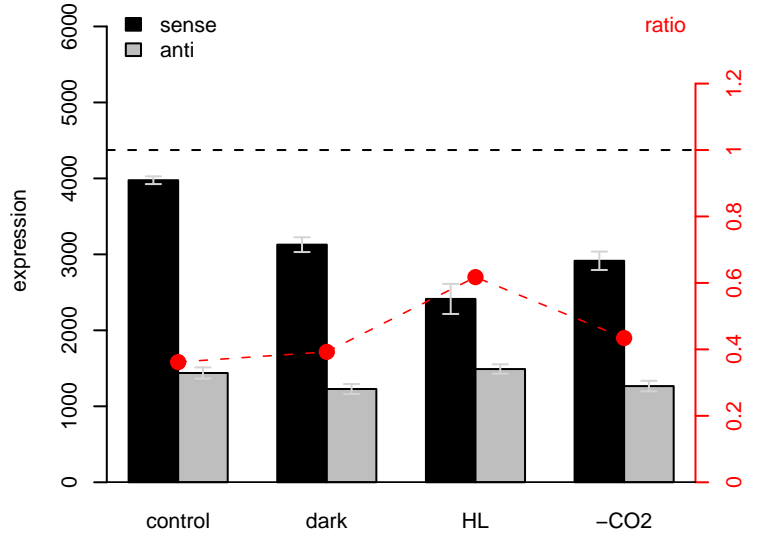
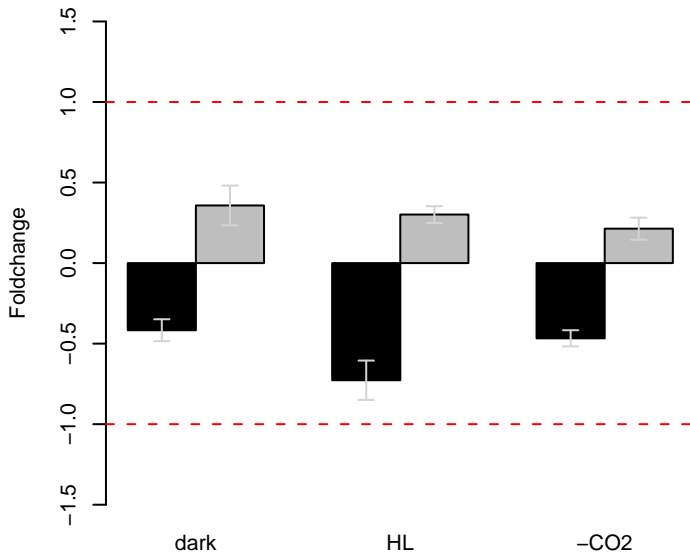
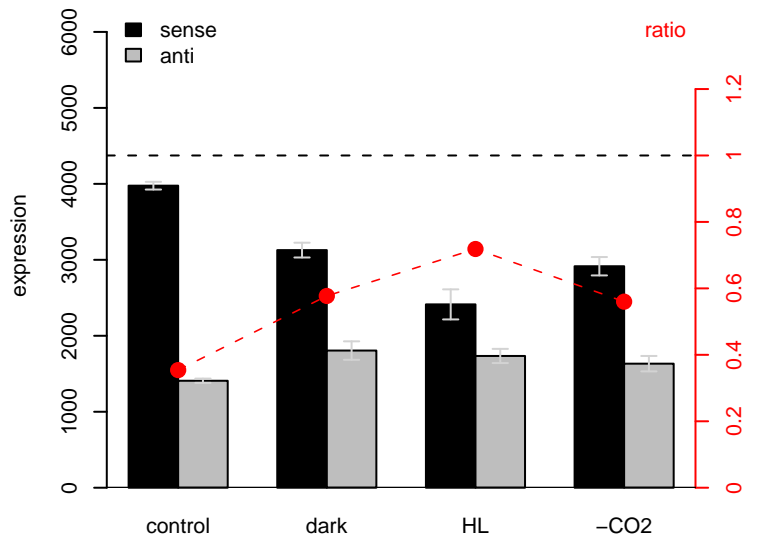
**sli5028****pSYSM\_43****ssi5045****pSYSM\_64****sli5052****pSYSM\_72**

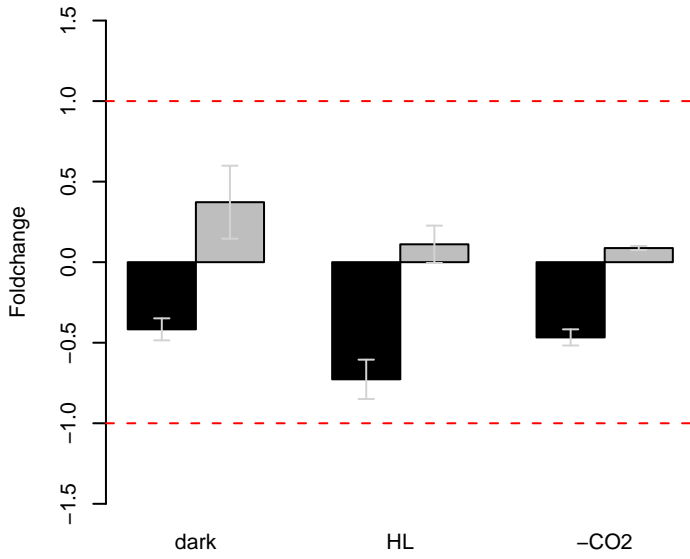
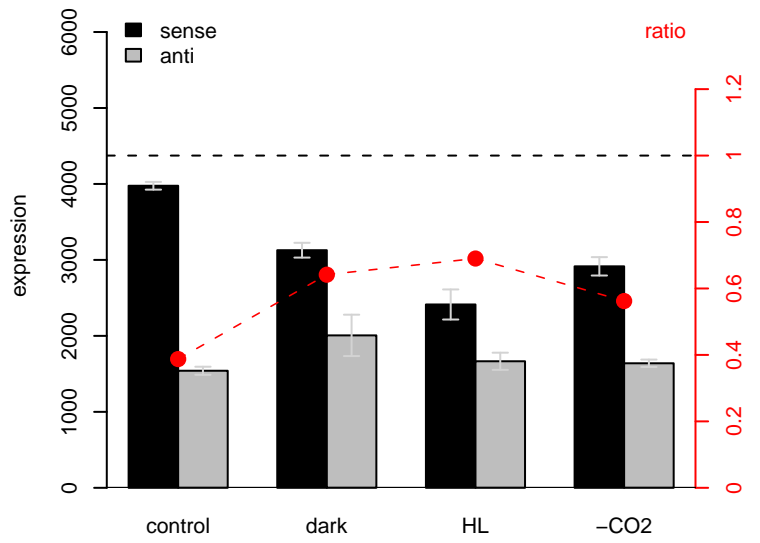
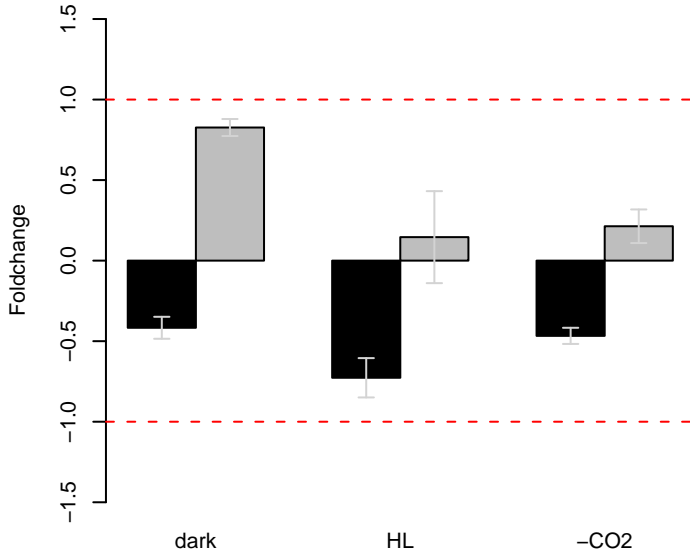
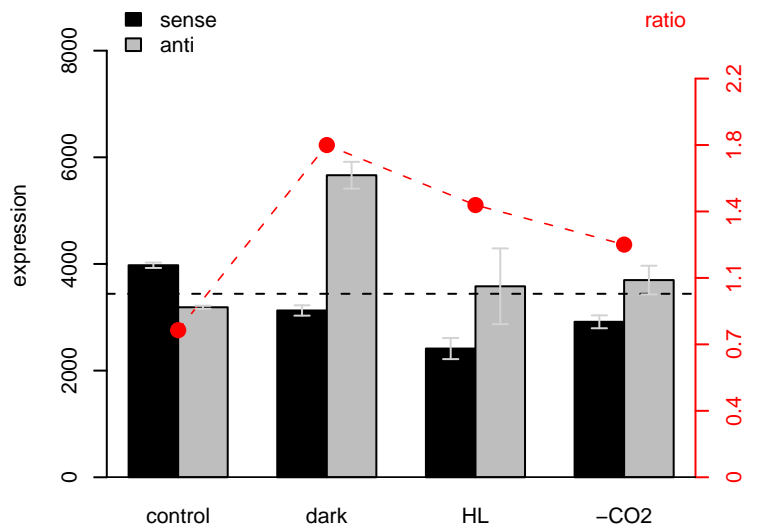
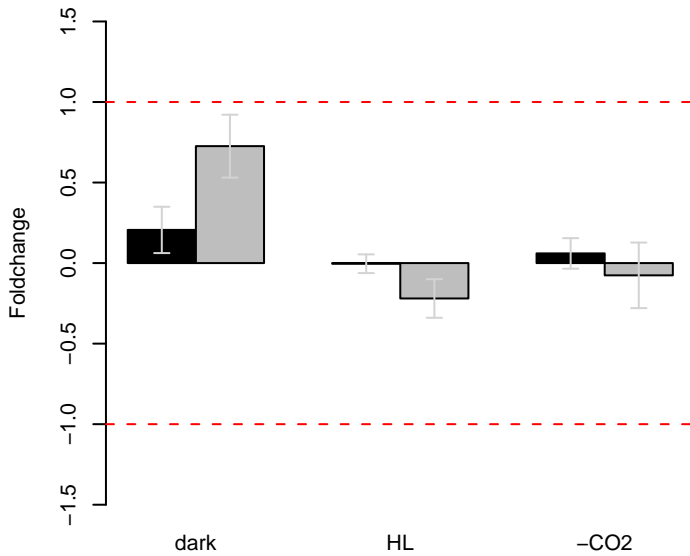
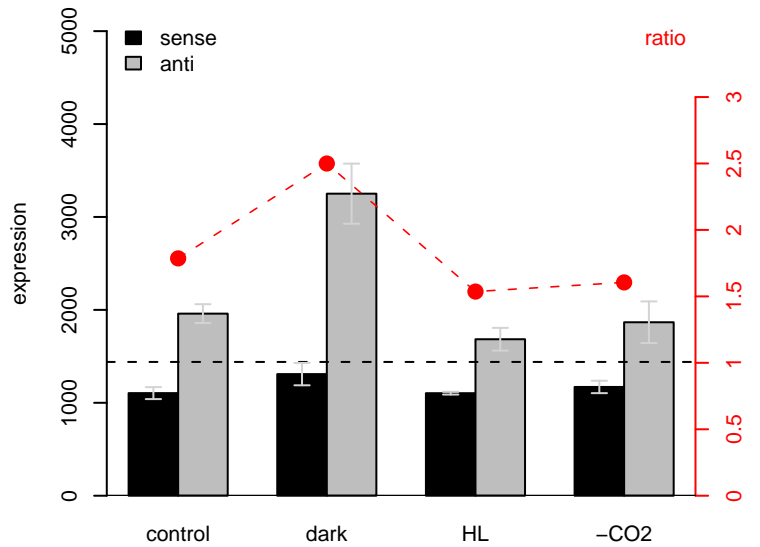
**slr5005****pSYSM\_8****sli5109****pSYSM\_143****sli5069****pSYSM\_94**

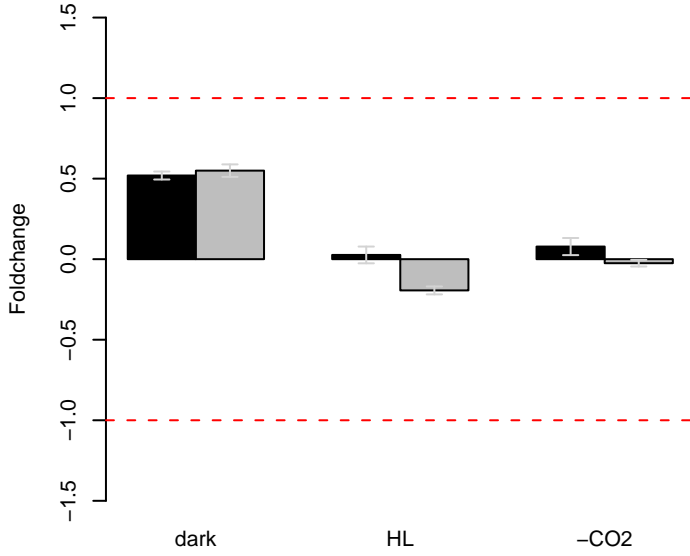
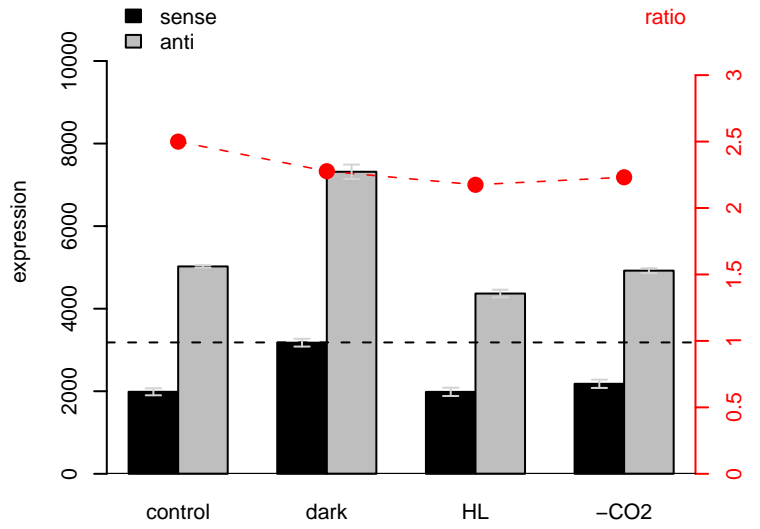
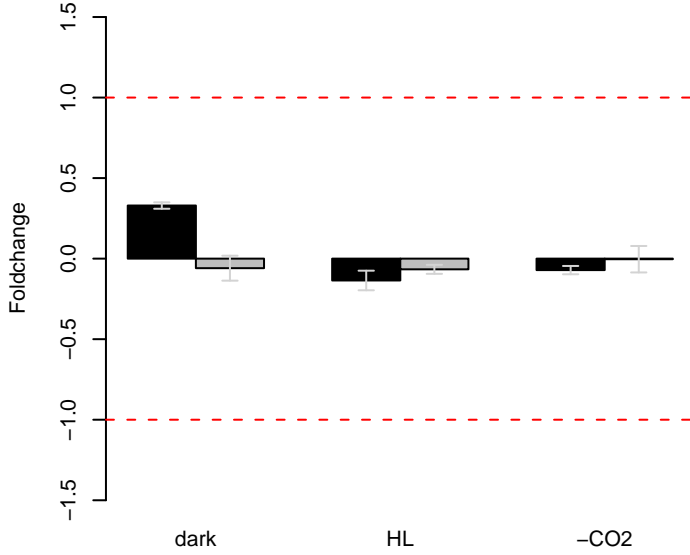
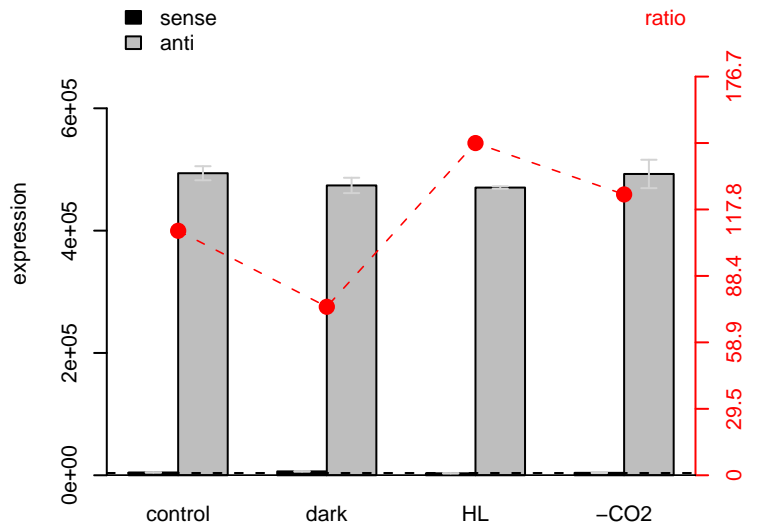
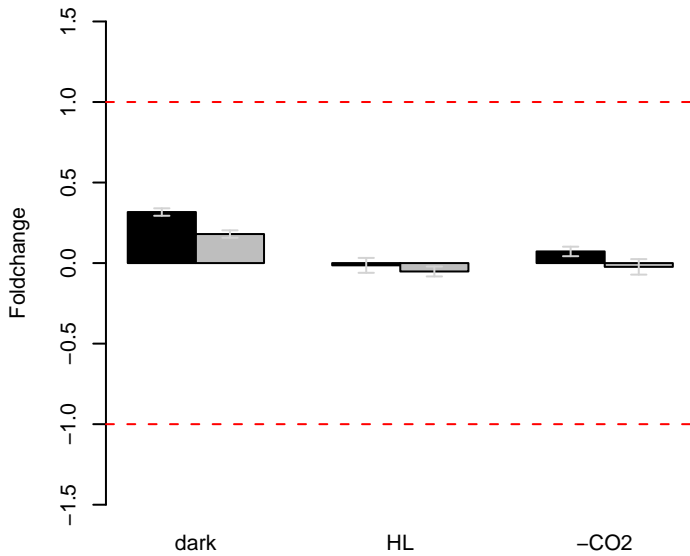
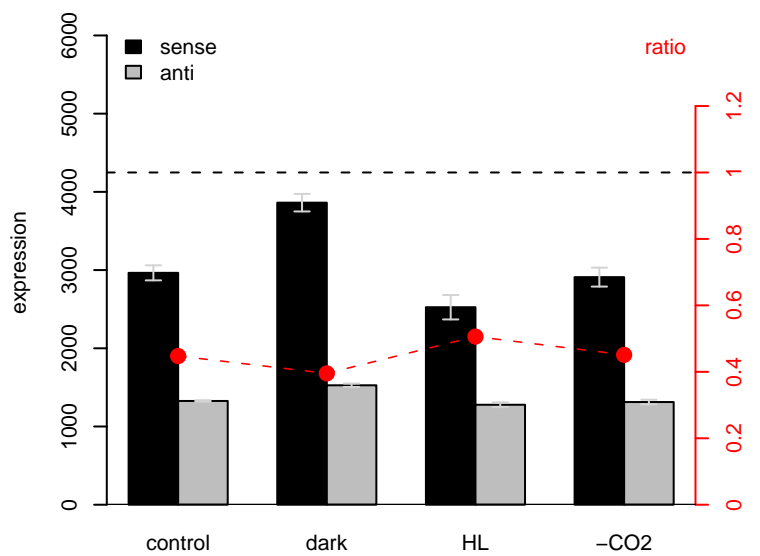
**ssl5070****pSYSM\_98****slr6090****pSYSX\_115****slr6090****pSYSX\_115**

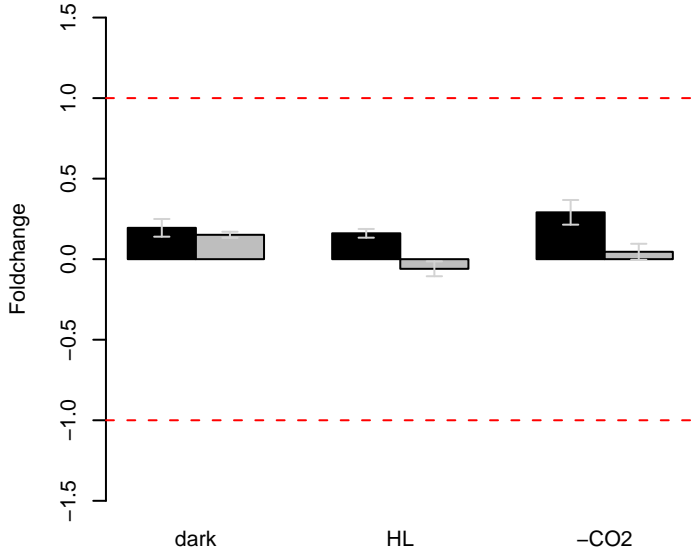
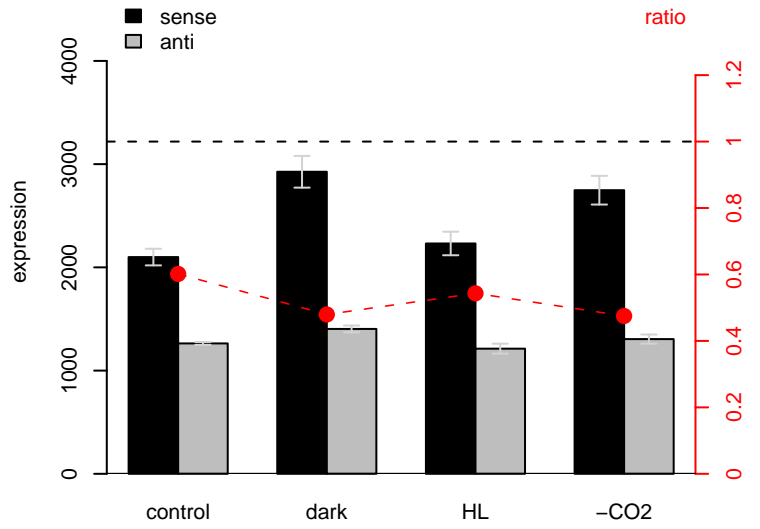
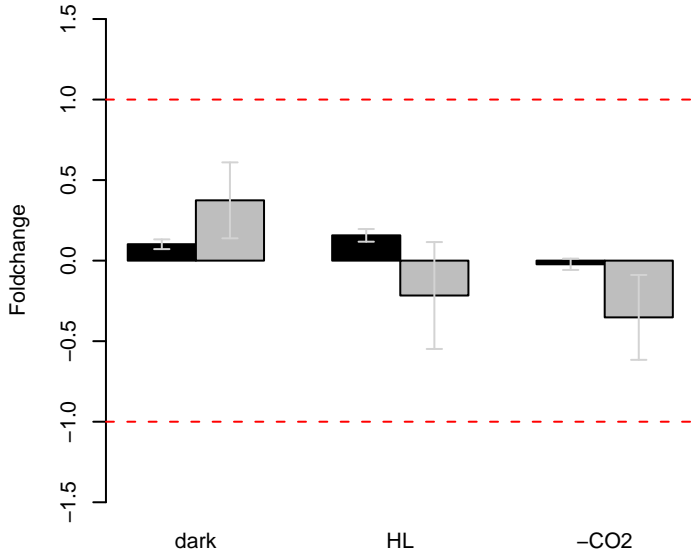
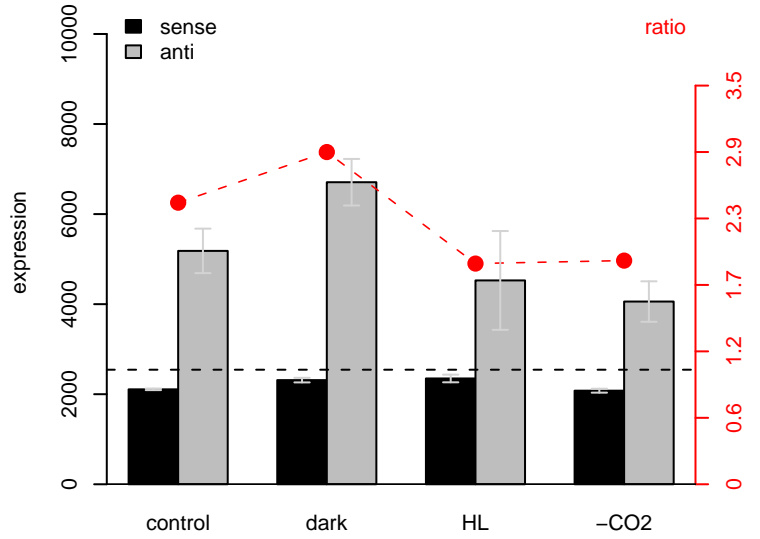
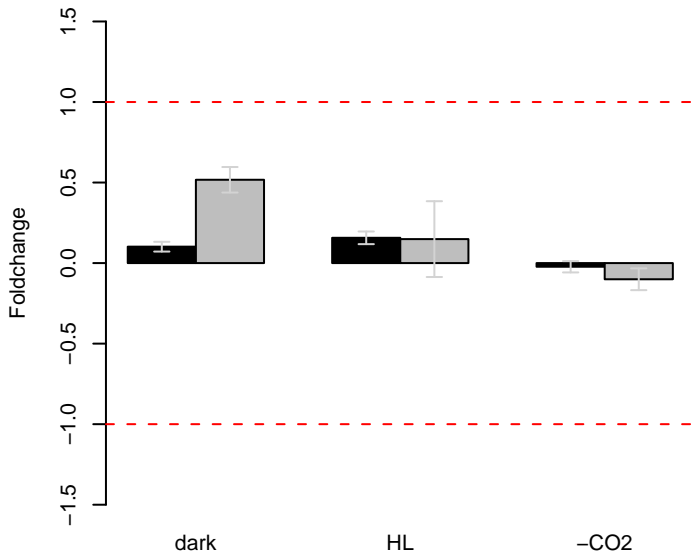


**slr6097****pSYSX\_127****slr6102****pSYSX\_132****slr6102****pSYSX\_132**

**slr6102****pSYSX\_132****slr6075****pSYSX\_99****slr6075****pSYSX\_99**

**slr6075****pSYSX\_99****slr6075****pSYSX\_99****ssr6079****pSYSX\_31**

**slr6081****pSYSX\_34****slr6031****pSYSX\_52****slr6042****pSYSX\_62**

**sll6055****pSYSX\_75****slr6057****pSYSX\_78****slr6057****pSYSX\_78**