**Raw Data for Figure 1: OD600 Readings were obtained for Control and Mutant Strains and used for generating a graph**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WT** | | | | | |
| **Time point (h)** | **Repeat 1** | **Repeat 2** | **Repeat 3** | **AVG OD600** | **STDEV** |
| **0** | 0.1373 | 0.1312 | 0.1176 | 0.1287 | 0.01008514 |
| **2** | 0.1586 | 0.1562 | 0.1384 | 0.1510667 | 0.0110351 |
| **4** | 0.3323 | 0.3317 | 0.2937 | 0.3192333 | 0.02211455 |
| **6** | 0.7954 | 0.7742 | 0.7366 | 0.7687333 | 0.02977874 |
| **8** | 1.6492 | 1.6422 | 1.559 | 1.6168 | 0.05017848 |
| **12** | 2.5098 | 2.5114 | 2.4776 | 2.4996 | 0.01906935 |
| **24** | 5.377 | 5.587 | 5.505 | 5.4896667 | 0.10583635 |
|  |  |  |  |  |  |
| **BWP17** | | | | | |
| **Time point (h)** | **Repeat 1** | **Repeat 2** | **Repeat 3** | **AVG OD600** | **STDEV** |
| **0** | 0.1102 | 0.1153 | 0.1102 | 0.1119 | 0.00294449 |
| **2** | 0.1553 | 0.156 | 0.1539 | 0.1550667 | 0.00106927 |
| **4** | 0.3572 | 0.3531 | 0.3552 | 0.3551667 | 0.0020502 |
| **6** | 0.807 | 0.796 | 0.8015 | 0.8015 | 0.0055 |
| **8** | 1.8508 | 1.8124 | 1.8254 | 1.8295333 | 0.01953083 |
| **12** | 3.871 | 3.871 | 3.881 | 3.8743333 | 0.0057735 |
| **24** | 5.241 | 5.173 | 5.164 | 5.1926667 | 0.04209909 |
|  |  |  |  |  |  |
| **DAY185** | | | | | |
| **Time point (h)** | **Repeat 1** | **Repeat 2** | **Repeat 3** | **AVG OD600** | **STDEV** |
| **0** | 0.0942 | 0.0878 | 0.0897 | 0.0905667 | 0.00328684 |
| **2** | 0.0969 | 0.0854 | 0.085 | 0.0891 | 0.00675796 |
| **4** | 0.5756 | 0.5407 | 0.5243 | 0.5468667 | 0.02620006 |
| **6** | 0.7793 | 0.7808 | 0.7869 | 0.7823333 | 0.00402534 |
| **8** | 1.2392 | 1.1926 | 1.1912 | 1.2076667 | 0.02731764 |
| **12** | 2.4624 | 2.4744 | 2.4564 | 2.4644 | 0.00916515 |
| **24** | 5.742 | 5.878 | 5.782 | 5.8006667 | 0.06989516 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ES1** | | | | | |
| **Time point (h)** | **Repeat 1** | **Repeat 2** | **Repeat 3** | **AVG OD600** | **STDEV** |
| **0** | 0.0828 | 0.0826 | 0.0828 | 0.0827333 | 0.00011547 |
| **2** | 0.1006 | 0.0968 | 0.094 | 0.0971333 | 0.0033126 |
| **4** | 0.205 | 0.1968 | 0.1963 | 0.1993667 | 0.00488501 |
| **6** | 0.4772 | 0.4787 | 0.442 | 0.4659667 | 0.02076929 |
| **8** | 0.9228 | 0.9062 | 0.9048 | 0.9112667 | 0.01001266 |
| **12** | 1.8142 | 1.7908 | 1.7832 | 1.7960667 | 0.01615714 |
| **24** | 3.718 | 3.725 | 3.853 | 3.7653333 | 0.07600219 |
|  |  |  |  |  |  |
| **ES195** | | | | | |
| **Time point (h)** | **Repeat 1** | **Repeat 2** | **Repeat 3** | **AVG OD600** | **STDEV** |
| **0** | 0.1294 | 0.1295 | 0.1295 | 0.1294667 | 5.7735E-05 |
| **2** | 0.1214 | 0.1173 | 0.1169 | 0.1185333 | 0.00249065 |
| **4** | 0.2436 | 0.2393 | 0.2208 | 0.2345667 | 0.01211459 |
| **6** | 0.5761 | 0.5548 | 0.55 | 0.5603 | 0.01389208 |
| **8** | 1.254 | 1.2254 | 1.2 | 1.2264667 | 0.0270158 |
| **12** | 2.3034 | 2.255 |  | 2.2792 | 0.03422397 |
| **24** | 5.821 | 5.818 | 5.756 | 5.7983333 | 0.03669242 |
|  |  |  |  |  |  |
| **ES195 +Met/Cys** | | | | | |
| **Time point (h)** | **Repeat 1** | **Repeat 2** | **Repeat 3** | **AVG OD600** | **STDEV** |
| **0** | 0.1476 | 0.1754 | 0.15 | 0.1576667 | 0.01540433 |
| **2** | 0.2936 | 0.2872 | 0.3073 | 0.2960333 | 0.01026856 |
| **4** | 0.4279 | 0.4236 | 0.4309 | 0.4274667 | 0.00366924 |
| **6** | 0.528 | 0.5424 | 0.5049 | 0.5251 | 0.01891745 |
| **8** | 0.6728 | 0.6742 | 0.6644 | 0.6704667 | 0.00530031 |
| **12** | 0.7777 | 0.7964 | 0.7708 | 0.7816333 | 0.0132455 |
| **24** | 0.98 | 0.9927 | 0.9619 | 0.9782 | 0.0154787 |

**Raw Data for Figure 2: Student’s T-test was performed with this data**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Biofilm Dry Cell Mass (mg)** | | |
|  | **WT** | **ES1** | **ES195** |
| **Repeat 1** | 6.4 | 2.6 | 1.95 |
| **Repeat 2** | 5.7 | 2.166667 | 1.5 |
| **Repeat 3** | 5.4 | 3.133333 | 2.833333 |
| **Avg. Mass** | 5.833333 | 2.633333 | 2.094444 |
| **STDEV** | 0.51316 | 0.484195 | 0.678301 |

**Raw Data for Figure 3: Student’s T-test was performed with this data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Dual Species Biofilm Dry Cell Mass (mg)** | | | |
|  | ***WT C. albicans/***  ***S. gordonii*** | ***ES1 C. albicans/***  ***S. gordonii*** | ***ES195 C. albicans/***  ***S. gordonii*** | ***S. gordonii* only** |
| **Repeat 1** | 4.6 | 2.5 | 1.5 | 0.5 |
|  | 4.6 | 3.1 | 1.6 | 1 |
|  | 4.7 | 2.9 | 1.6 | 1.3 |
| **Repeat 2** | 5.9 | 2.5 | 2.1 | 1 |
|  | 4.5 | 2.5 | 2.1 | 1 |
|  | 5.6 | 2.2 | 1.5 | 0.5 |
| **Repeat 3** | 5.2 | 1.5 | 1.8 | 1.1 |
|  | 5.7 | 2.4 | 1.7 | 0.9 |
|  | 5.2 | 1.7 | 1.8 | 0.9 |
| **Avg. Mass** | 5.111111111 | 2.366666667 | 1.744444444 | 0.911111111 |
| **STDEV** | 0.534893551 | 0.512347538 | 0.229734146 | 0.261937227 |

**Raw Data for Figure 6B: ECL analysis and band volumes of P-Hog1 for Control strains**

|  |  |
| --- | --- |
| **Strain** | **Band Volume** |
| SC5314 | 10906698 |
| BWP17 | 9338037 |
| DAY185 | 6737976 |

**Raw Data for Figure 7B**: ECL Relative Intensities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **WT** | | **ES1** | | **ES195** | |
| **Blot** | ***P-Hog1*** | ***Total Hog1*** | ***P-Hog1*** | ***Total Hog1*** | ***P-Hog1*** | ***Total Hog1*** |
| **Run 1** | 7918452 | 2124640 | 0 | 1239328 | 1399008 | 1991456 |
| **Run 2** | 10862756 | 942174 | 0 | 521600 | 556480 | 716000 |
| **Run 3** | 7950744 | 515264 | 864000 | 508640 | 1214560 | 1030752 |
| **Avg. Band Volume** | 8910650.667 | 1194026 | 288000 | 756522.6667 | 1056682.667 | 1246069.333 |
| **Relative intensity** | 7.462694001 | | 0.380689188 | | 0.848012738 | |