**Supplementary Tables 4A-F.  Percent overlap of significantly induced and repressed genes across laboratories for the Dataset D (4A,B) and Dataset C (4D,E) and number of gene transcripts identified as differentially expressed across laboratories for Dataset D (4C) and Dataset C (4F).**

**Supplementary Table 4A.  Percent overlap of significantly induced genes across laboratories for the standard commercial array (Dataset D)**

| Laboratory | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.492 | 0.0.391 | 0.760 | 0.584 | 0.612 | 0.429 | 0.561 |
| 2 | | 1.000 | 0.556 | 0.549 | 0.613 | 0.475 | 0.274 | 0.653 |
| 3 | | | 1.000 | 0.478 | 0.568 | 0.379 | 0.191 | 0.629 |
| 4 | | | | 1.000 | 0.637 | 0.663 | 0.376 | 0.619 |
| 5 | | | | | 1.000 | 0.503 | 0.304 | 0.803 |
| 6 | | | | | | 1.000 | 0.374 | 0.496 |
| 7 | | | | | | | 1.000 | 0.288 |
| 8 | | | | | | | | 1.000 |

Overlap of significantly induced genes, based on percentage and pair-wise comparison across laboratories.

**Supplementary Table 4B.  Percent overlap of significantly repressed genes across laboratories for the standard commercial array (Dataset D)**

| Laboratory | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.571 | 0.355 | 0.708 | 0.685 | 0.641 | 0.537 | 0.475 |
| 2 | | 1.000 | 0.545 | 0.543 | 0.691 | 0.593 | 0.452 | 0.677 |
| 3 | | | 1.000 | 0.339 | 0.440 | 0.411 | 0.287 | 0.648 |
| 4 | | | | 1.000 | 0.633 | 0.616 | 0.602 | 0.417 |
| 5 | | | | | 1.000 | 0.628 | 0.495 | 0.559 |
| 6 | | | | | | 1.000 | 0.442 | 0.540 |
| 7 | | | | | | | 1.000 | 0.345 |
| 8 | | | | | | | | 1.000 |

Overlap of significantly repressed genes, based on percentage and pair-wise comparison across laboratories.

**Supplementary Table 4C. Number of gene transcripts identified as differentially expressed across laboratories for the standard commercial array (Dataset D)**

| Number of Laboratories (out of 8) with Common Genes | Number of Genes in Common |
|---|---|
| In 2/8 Laboratories | 1178 |
| 3/8 Laboratories | 962 |
| 4/8 Laboratories | 778 |
| 5/8 Laboratories | 655 |
| 6/8 Laboratories | 550 |
| 7/8 Laboratories | 438 |
| 8/8 Laboratories | 277 |

**Supplementary Table 4D.  Percent overlap of significantly induced genes across laboratories for the standard spotted array (Dataset C)**

| Laboratory | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.524 | 0.0.126 | 0.288 | 0.029 | 0.324 |
| 2 | | 1.000 | 0.211 | 0.397 | 0.056 | 0.374 |
| 3 | | | 1.000 | 0.292 | 0.213 | 0.170 |
| 4 | | | | 1.000 | 0.073 | 0.327 |
| 5 | | | | | 1.000 | 0.038 |
| 6 | | | | | | 1.000 |

Overlap of significantly induced genes, based on percentage and pair-wise comparison across laboratories.

**Supplementary Table 4E.  Percent overlap of significantly repressed genes across laboratories for the standard spotted array (Dataset C)**

| Laboratory | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| 1 | 1.000 | 0.395 | 0.065 | 0.275 | 0.011 | 0.270 |
| 2 | | 1.000 | 0.104 | 0.369 | 0.019 | 0.344 |
| 3 | | | 1.000 | 0.148 | 0.067 | 0.100 |
| 4 | | | | 1.000 | 0.022 | 0.260 |
| 5 | | | | | 1.000 | 0.023 |
| 6 | | | | | | 1.000 |

Overlap of significantly repressed genes, based on percentage and pair-wise comparison across laboratories.

**Supplementary Table 4F. Number of gene transcripts identified as differentially expressed across laboratories for the standard spotted array (Dataset C)**

| Number of Laboratories (out of 6) with Common Genes | Number of Genes in Common |
|---|---|
| In 2/6 Laboratories | 736 |
| 3/6 Laboratories | 530 |
| 4/6 Laboratories | 290 |
| 5/6 Laboratories | 93 |
| 6/6 Laboratories | 13 |