Table S2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of variables | Experimental design  (treatment-control) | Effect size (δ) | Percent altered | | | | | |
| 0% | 5% | 10% | 15% | 20% | 25% |
| 10,000 | 2-2 | 1.3 | n/a | n/a | n/a | n/a | n/a | n/a |
| 1.5 | n/a | n/a | n/a | n/a | n/a | n/a |
| 1.8 | n/a | n/a | n/a | n/a | n/a | n/a |
| 2 | n/a | n/a | n/a | n/a | n/a | n/a |
| 4 | n/a | n/a | n/a | n/a | n/a | n/a |
| 4-4 | 1.3 | 2.8 | 2 | 4 | 4 | 4 | 5 |
| 1.5 | 2.5 | 4 | 13 | 18 | 25 | 29 |
| 1.8 | 2.9 | 10 | 28 | 51 | 65 | 77 |
| 2 | 1.9 | 11 | 35 | 66 | 85 | 92 |
| 4 | 2.7 | 14 | 50 | 80 | 96 | 100 |
| 8-8 | 1.3 | 3.2 | 6 | 14 | 18 | 24 | 26 |
| 1.5 | 3.5 | 24 | 61 | 89 | 99 | 99 |
| 1.8 | 3.8 | 55 | 99 | 100 | 100 | 100 |
| 2 | 4.0 | 64 | 100 | 100 | 100 | 100 |
| 4 | 3.9 | 79 | 100 | 100 | 100 | 100 |
| 16-16 | 1.3 | 4.9 | 13 | 27 | 44 | 54 | 56 |
| 1.5 | 4.3 | 48 | 96 | 100 | 100 | 100 |
| 1.8 | 4.3 | 92 | 100 | 100 | 100 | 100 |
| 2 | 5.0 | 98 | 100 | 100 | 100 | 100 |
| 4 | 4.2 | 100 | 100 | 100 | 100 | 100 |
| 100,000 | 2-2 | 1.3 | n/a | n/a | n/a | n/a | n/a | n/a |
| 1.5 | n/a | n/a | n/a | n/a | n/a | n/a |
| 1.8 | n/a | n/a | n/a | n/a | n/a | n/a |
| 2 | n/a | n/a | n/a | n/a | n/a | n/a |
| 4 | n/a | n/a | n/a | n/a | n/a | n/a |
| 4-4 | 1.3 | 2.6 | 4 | 14 | 21 | 25 | 29 |
| 1.5 | 1.8 | 24 | 57 | 74 | 81 | 86 |
| 1.8 | 2.8 | 47 | 87 | 98 | 100 | 100 |
| 2 | 2.5 | 59 | 93 | 99 | 100 | 100 |
| 4 | 2.3 | 66 | 96 | 100 | 100 | 100 |
| 8-8 | 1.3 | 4.8 | 30 | 75 | 94 | 98 | 98 |
| 1.5 | 3.6 | 96 | 100 | 100 | 100 | 100 |
| 1.8 | 4.4 | 100 | 100 | 100 | 100 | 100 |
| 2 | 4.0 | 100 | 100 | 100 | 100 | 100 |
| 4 | 3.1 | 100 | 100 | 100 | 100 | 100 |
| 16-16 | 1.3 | 4.6 | 68 | 99 | 100 | 100 | 100 |
| 1.5 | 5.6 | 100 | 100 | 100 | 100 | 100 |
| 1.8 | 5.5 | 100 | 100 | 100 | 100 | 100 |
| 2 | 5.0 | 100 | 100 | 100 | 100 | 100 |
| 4 | 3.8 | 100 | 100 | 100 | 100 | 100 |