**Table S2**

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|  | **Proportion of Permutated Datasets with Lower Number of Incorrect Predictions Using Medians** | **Proportion of Permutated Datasets with Lower Number of Incorrect Predictions Using Means** |
| **Nitrogen Upshift** | 0.010 | 0.045 |
| **Glucose Starvation** | 0.022 | 0.039 |
| **Acetate Limitation** | 0.001 | 0.0003 |
| **Succinate Limitation** | 0.026 | 0.061 |
| **Glycerol Limitation** | 0.006 | 0.0001 |