Supplementary Table S2. Tukey HSD Results for Yeast

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Ontology | Network | Metric | Comparison | Mean Difference | Confidence interval | Adjusted p-value | Reject |
| CC | ModuleNet | Precision | High vs Low | -0.454 | [-0.573, -0.335] | 0 | TRUE |
| CC | ModuleNet | Precision | High vs Mid | 0.068 | [-0.051, 0.187] | 0.3676 | FALSE |
| CC | ModuleNet | Precision | Low vs Mid | 0.522 | [0.404, 0.641] | 0 | TRUE |
| CC | ModuleNet | Recall | High vs Low | -0.452 | [-0.574, -0.330] | 0 | TRUE |
| CC | ModuleNet | Recall | High vs Mid | 0.019 | [-0.104, 0.141] | 0.9313 | FALSE |
| CC | ModuleNet | Recall | Low vs Mid | 0.471 | [0.349, 0.593] | 0 | TRUE |
| CC | DomainNet | Precision | High vs Low | -0.128 | [-0.231, -0.026] | 0.0097 | TRUE |
| CC | DomainNet | Precision | High vs Mid | -0.112 | [-0.214, -0.009] | 0.0292 | TRUE |
| CC | DomainNet | Precision | Low vs Mid | 0.017 | [-0.086, 0.119] | 0.9225 | FALSE |
| CC | DomainNet | Recall | High vs Low | -0.145 | [-0.252, -0.038] | 0.0043 | TRUE |
| CC | DomainNet | Recall | High vs Mid | -0.133 | [-0.240, -0.027] | 0.0098 | TRUE |
| CC | DomainNet | Recall | Low vs Mid | 0.012 | [-0.095, 0.118] | 0.9641 | FALSE |
| MF | ModuleNet | Precision | High vs Low | -0.209 | [-0.362, -0.055] | 0.0044 | TRUE |
| MF | ModuleNet | Precision | High vs Mid | 0.047 | [-0.107, 0.201] | 0.7551 | FALSE |
| MF | ModuleNet | Precision | Low vs Mid | 0.255 | [0.101, 0.409] | 0.0003 | TRUE |
| MF | ModuleNet | Recall | High vs Low | -0.135 | [-0.289, 0.019] | 0.0983 | FALSE |
| MF | ModuleNet | Recall | High vs Mid | 0.058 | [-0.096, 0.212] | 0.6502 | FALSE |
| MF | ModuleNet | Recall | Low vs Mid | 0.193 | [0.039, 0.347] | 0.0095 | TRUE |
| MF | DomainNet | Precision | High vs Low | -0.125 | [-0.220, -0.030] | 0.0058 | TRUE |
| MF | DomainNet | Precision | High vs Mid | -0.091 | [-0.186, 0.004] | 0.0625 | FALSE |
| MF | DomainNet | Precision | Low vs Mid | 0.034 | [-0.061, 0.129] | 0.6746 | FALSE |
| MF | DomainNet | Recall | High vs Low | -0.115 | [-0.205, -0.025] | 0.0083 | TRUE |
| MF | DomainNet | Recall | High vs Mid | -0.087 | [-0.177, 0.004] | 0.0633 | FALSE |
| MF | DomainNet | Recall | Low vs Mid | 0.028 | [-0.062, 0.119] | 0.7408 | FALSE |
| BP | ModuleNet | Precision | High vs Low | -0.455 | [-0.573, -0.336] | 0 | TRUE |
| BP | ModuleNet | Precision | High vs Mid | 0.077 | [-0.041, 0.195] | 0.2774 | FALSE |
| BP | ModuleNet | Precision | Low vs Mid | 0.532 | [0.413, 0.650] | 0 | TRUE |
| BP | ModuleNet | Recall | High vs Low | -0.395 | [-0.517, -0.272] | 0 | TRUE |
| BP | ModuleNet | Recall | High vs Mid | 0.059 | [-0.063, 0.182] | 0.4882 | FALSE |
| BP | ModuleNet | Recall | Low vs Mid | 0.454 | [0.332, 0.576] | 0 | TRUE |
| BP | DomainNet | Precision | High vs Low | -0.016 | [-0.070, 0.038] | 0.7736 | FALSE |
| BP | DomainNet | Precision | High vs Mid | -0.001 | [-0.055, 0.053] | 0.9995 | FALSE |
| BP | DomainNet | Precision | Low vs Mid | 0.015 | [-0.039, 0.069] | 0.7903 | FALSE |
| BP | DomainNet | Recall | High vs Low | -0.022 | [-0.066, 0.022] | 0.4799 | FALSE |
| BP | DomainNet | Recall | High vs Mid | -0.019 | [-0.063, 0.025] | 0.5626 | FALSE |
| BP | DomainNet | Recall | Low vs Mid | 0.003 | [-0.042, 0.047] | 0.9902 | FALSE |