|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO Annotation type** | ***H. sapiens* shared GO terms** | **SSL** | **Non-SSL** | **Welch 2 sample t-test (p)** |
| **Molecular function** | Mean | 1.195 | 0.733 | **<** **2.2e-16** |
| Stdev. | 0.903 | 0.682 |
| **Biological process** | Mean | 0.837 | 0.149 | **<** **2.2e-16** |
| Stdev. | 1.554 | 0.550 |
| **Cellular compartment** | Mean | 1.679 | 0.817 | **<** **2.2e-16** |
| Stdev. | 1.210 | 0.991 |

**Supplementary table 1A.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO Annotation type** | ***S. cerevisiae* shared GO terms** | **SSL** | **Non-SSL** | **Welch 2 sample t-test (p)** |
| **Molecular function** | Mean | 0.486 | 0.258 | **< 2.2e-16** |
| Stdev. | 1.099 | 0.681 |
| **Biological process** | Mean | 0.760 | 0.136 | **< 2.2e-16** |
| Stdev. | 1.364 | 0.504 |
| **Cellular compartment** | Mean | 1.355 | 0.674 | **< 2.2e-16** |
| Stdev. | 1.369 | 0.825 |

**Supplementary table 1B.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO Annotation type** | ***C. elegans* shared GO terms** | **SSL** | **Non-SSL** | **Welch 2 sample t-test (p)** |
| **Molecular function** | Mean | 0.423 | 0.229 | **< 2.2e-16** |
| Stdev. | 0.970 | 0.643 |
| **Biological process** | Mean | 2.368 | 0.683 | **2.642e-07** |
| Stdev. | 2.290 | 1.210 |
| **Cellular compartment** | Mean | 0.483 | 0.256 | **1.89e-08** |
| Stdev. | 0.772 | 0.510 |

**Supplementary table 1C.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO Annotation type** | ***D. melanogaster* shared GO terms** | **SSL** | **Non-SSL** | **Welch 2 sample t-test (p)** |
| **Molecular function** | Mean | 0.554 | 0.099 | **< 2.2e-16** |
| Stdev. | 0.843 | 0.332 |
| **Biological process** | Mean | 1.842 | 0.098 | **< 2.2e-16** |
| Stdev. | 2.993 | 0.332 |
| **Cellular compartment** | Mean | 0.619 | 0.179 | **< 2.2e-16** |
| Stdev. | 0.829 | 0.428 |

**Supplementary table 1D.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GO Annotation type** | ***S. pombe* shared GO terms** | **SSL** | **Non-SSL** | **Welch 2 sample t-test (p)** |
| **Molecular function** | Mean | 0.252 | 0.107 | **0.2934** |
| Stdev. | 0.519 | 0.331 |
| **Biological process** | Mean | 0.0841 | 0.025 | **2.832e-09** |
| Stdev. | 0.312 | 0.173 |
| **Cellular compartment** | Mean | 1.16 | 0.623 | **< 2.2e-16** |
| Stdev. | 0.837 | 0.776 |

**Supplementary table 1E.**