**Table S7 The *P* values between EGPN and other eight GO prediction methods for WAFmax and WAAUPR on the test datasets of 8 species**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Measure** | **GO aspect** | **(EGPN, EPGP)** | **(EGPN, GSAGP)** | **(EGPN, PSAGP)** | **(EGPN, NGP)** | **(EGPN, GPN)** | **(EGPN, EPN)** | **(EGPN, EGN)** | **(EGPN, EGP)** |
| WAFmax | MF | 2.71×10-21 | 3.85×10-18 | 2.09×10-14 | 9.57×10-23 | 2.53×10-10 | 7.12×10-13 | 4.59×10-17 | 1.70×10-04 |
| BP | 3.39×10-15 | 4.82×10-17 | 2.65×10-15 | 1.42×10-18 | 9.68×10-13 | 6.33×10-10 | 4.37×10-12 | 4.34×10-06 |
| CC | 1.71×10-13 | 7.18×10-19 | 7.49×10-18 | 2.07×10-18 | 2.09×10-14 | 8.98×10-10 | 5.02×10-11 | 1.96×10-07 |
| WAAUPR | MF | 3.31×10-24 | 3.51×10-24 | 1.17×10-22 | 1.16×10-25 | 3.09×10-15 | 3.79×10-17 | 2.31×10-20 | 3.07×10-04 |
| BP | 6.93×10-20 | 1.24×10-23 | 2.99×10-22 | 2.12×10-23 | 3.66×10-18 | 1.52×10-14 | 4.97×10-17 | 4.87×10-11 |
| CC | 9.69×10-08 | 3.81×10-16 | 3.32×10-15 | 1.10×10-14 | 2.70×10-10 | 1.79×10-05 | 2.73×10-06 | 2.77×10-04 |