

Table S6. AUCs of the prediction of the new disease genes in OMIM July-2014. The table reports a comparison of the ranking results by BiRW and 4 baselines, PRINCE, RWRH, CIPHER SP and CIPHER DN. The parameters α , l and r of BiRW are set by the experimental results in 100-fold cross-validation. AUCs up to 50, 100, 300, 500, 1000 and all false positives are reported.

| | AUC ₅₀ | AUC ₁₀₀ | AUC ₃₀₀ | AUC ₅₀₀ | AUC ₁₀₀₀ | AUC |
|---------------------|-------------------|--------------------|--------------------|--------------------|---------------------|--------|
| BiRW(0.8,4,4) | 0.1736 | 0.2115 | 0.2741 | 0.3077 | 0.3687 | 0.7369 |
| PRINCE(0.1) | 0.1439 | 0.1753 | 0.2310 | 0.2647 | 0.3227 | 0.7244 |
| RWRH(0.5, 0.7, 0.5) | 0.1599 | 0.1936 | 0.2611 | 0.3069 | 0.3849 | 0.7667 |
| CIPHER SP | 0.1068 | 0.1390 | 0.2165 | 0.2587 | 0.3233 | 0.7039 |
| CIPHER DN | 0.0935 | 0.1271 | 0.1838 | 0.2191 | 0.2754 | 0.6683 |