ROC Curve for All Species w/ Complete Non Inferred Networks C. elegans D. melanogaster B. subtilis 1.0 1.0 1.0 8.0 8.0 8.0 True Positive Rate True Positive Rate True Positive Rate One-Hop GO Overlap(area = 0.67) One-Hop GO Overlap(area = 0.59) One-Hop GO Overlap(area = 0.69) 0.2 0.2 0.2 Hypergeometric(area = 0.53) Hypergeometric(area = 0.69) Hypergeometric(area = 0.58) Degree(area = 0.64) Degree(area = 0.72) Degree(area = 0.59) RW(area = 1.00)RW(area = 1.00)RW(area = 0.99)0.0 | 0.0 0.0 0.4 0.2 8.0 0.4 0.4 0.6 0.2 0.6 8.0 0.2 0.6 8.0 0.0 0.0 1.0 1.0 1.0 False Positive Rate False Positive Rate False Positive Rate S. cerevisiae D. rerio 1.0 1.0 0.8 -8.0 True Positive Rate True Positive Rate One-Hop GO Overlap(area = 0.72) One-Hop GO Overlap(area = 0.63) 0.2 0.2 Hypergeometric(area = 0.71)Hypergeometric(area = 0.54) Degree(area = 0.67) Degree(area = 0.66) RW(area = 1.00)RW(area = 1.00)0.0 + 0.0 0.0 -0.6 0.2 0.4 8.0 0.2 0.4 0.6 0.0 8.0

False Positive Rate

1.0

1.0

False Positive Rate