ROC Curve for All Species w/ Complete Inferred Networks C. elegans B. subtilis D. melanogaster 1.0 1.0 1.0 0.8 8.0 8.0 True Positive Rate True Positive Rate True Positive Rate One-Hop GO Overlap(area = 0.64) One-Hop GO Overlap(area = 0.68) One-Hop GO Overlap(area = 0.73) 0.2 0.2 -0.2 Hypergeometric(area = 0.60) Hypergeometric(area = 0.71) Hypergeometric(area = 0.66) Degree(area = 0.71) Degree(area = 0.74) Degree(area = 0.66) RW(area = 0.99)RW(area = 0.99)RW(area = 0.99)0.0 + 0.0 0.0 0.0 0.4 8.0 0.2 0.4 0.6 0.2 0.4 0.6 8.0 0.0 0.2 0.6 8.0 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 = 0.76) One-Hop GO Overlap(area = 0.62) 0.2 0.2 Hypergeometric(area = 0.77) Hypergeometric(area = 0.60) Degree(area = 0.72) Degree(area = 0.75) RW(area = 0.99)RW(area = 1.00)0.0 + 0.0 0.0 0.6 0.4 8.0 0.2 0.4 0.6 0.2 1.0 0.0 8.0 1.0

False Positive Rate

False Positive Rate