8th World Congress of Chemical Engineering

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Prediction of High-Confidence Protein-Protein Interactions using Multiple Approaches **M.A. Mahdavi*** <*mahdavi@ferdowsi.um.ac.ir*>, Department of Chemical Engineering, Ferdowsi University of Mashhad, P.O. Box 91775-1111, Mashhad, Iran.

When multiple approaches agree on a protein-protein interaction, that link would be highly confident. The confidence increases when selected approaches utilize various types of information for their prediction schemes. Z-score for a dataset of such interactions was calculated and the probability of generating such a dataset based on random selection was obtained as low as zero. It was also found that PPIs predicted by multiple approaches are more biologically relevant and function more as metabolic proteins in cytoplasm. Growth and protein transport are two specific metabolic processes regulated by proteins involved in the interactions predicted by multiple approaches.

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Bold text denotes the presenting author. If present, * denotes the corresponding author and $ denotes the principal investigator.