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Title: Insights from biophysical studies of intrinsically disordered proteins

Name: Pappu, Rohit

Affiliation: Washington University in St. Louis

Intrinsically disordered proteins have garnered considerable recent attention because they are ubiquitous in biology and function is ascribed to conformationally heterogeneous ensembles rather than an individual ordered three-dimensional structure. To understand how a conformational heterogeneity plays a role in function one needs new methods for biophysical characterization of proteins that go beyond the focus on specific structures. Computations in synergy with polymer physics theories and state-of-the-art single molecule experiments are helping us develop unique insights regarding the ensembles of disordered proteins. The state-of-the-art in this field will be presented focusing on the most recent results.