

Physics and Biology of Strongly Fluctuating Proteins Symposium

Monday, May 13, 9 am – 6 pm

Room 0112, Marker Seminar Room, Chemistry Building (091), UMD

Proteins are not static entities. They either fluctuate around some average three-dimensional structure, or do not even adopt any dominant structures, instead exploring an astronomical number of conformational states. Nevertheless, even strongly fluctuating proteins often retain functional specificity and recognition. The Symposium talks will highlight recent progress in understanding the dynamics and function of strongly fluctuating proteins.

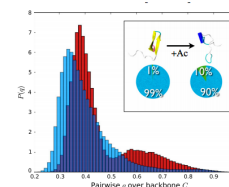
	8:30 am	Refreshments
	8:50 am	Introductory Remarks
Ashok Deniz (The Scripps Research Institute)	9:00 am	<i>Shedding light on dynamic protein disorder, one molecule at a time</i>
Ignacia Echeverria (University of Maryland)	9:40 am	<i>Insight into the molecular origins of the internal friction in unfolded proteins</i>
Rohit Pappu (Washington University in St. Louis)	10:00 am	<i>Cis modulation of complexities in polyglutamine aggregation mechanisms</i>
	10:40 am	Coffee Break
Vincent Hilser (Johns Hopkins University)	11:00 am	<i>Intrinsic Disorder can Mediate Allostery in an Ensemble</i>
Steve Metallo (Georgetown University)	11:40 am	<i>Specificity and Promiscuity in Small Molecule Binding to Intrinsically Disordered Protein Regions: the Birthday Paradox</i>
	12:20 pm	Lunch break / Poster Session*
Liz Rhodes (Yale University)	2:40 pm	<i>Where the crystal structure ends: defining structure in disordered proteins</i>
Pavel Zhuravlev (University of Maryland)	3:20 pm	<i>Force spectroscopy reveals aggregation-prone states</i>
	3:40 pm	Coffee Break
Jeff Hayes (University of Rochester)	4:10 pm	<i>Context-dependent structure of a linker histone C-termina domain</i>
Susan Marqusee (UC Berkeley)	4:50 pm	<i>Manipulating the Protein Energy Landscape</i>
	6:00 pm	Symposium Dinner

Presented by the Maryland Biophysics Program

Supported by IPST, the Biology, Chemistry, and Physics Departments

Organizers: Garegin Papoian, Devarajan Thirumalai

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***Poster submission is encouraged.**

Please submit your poster title to Stephanie Noel at sjnoel@umd.edu