

FACULTY PROFILE



Name: Priyatosh Ranjan

Highest Education Qualification: PhD

Institute name: Indian Institute of Technology Bombay

Teaching Subjects: Structural Biology, Protein Biochemistry, and Protein Engineering

Research areas of interest: Structural characterization of peptides and proteins involved in neurodegenerative disorders.

Biophysical characterization of peptide-membrane interactions.

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Publications (best 5):

1. **Ranjan P**, Kumar A. Perturbation in long-range contacts modulates kinetics of amyloid formation in α -Synuclein familial mutants. *ACS Chemical Neuroscience* 2017; 8:2235-2246.
2. **Ranjan P**, Ghosh D, Yarramala DS, Maji SK, Kumar A. Differential copper binding to Alpha-synuclein and its disease-associated mutants affect the aggregation and amyloid formation. *Biochimica et Biophysica Acta General Subjects* 2017; 1861: 365-374.
3. **Ranjan P**, Kumar A. The Involvement of His50 during Protein Disulfide Isomerase binding is essential for inhibiting α -Syn fibril formation. *Biochemistry* 2016; 55:2677-2680.
4. Ganguly AK, **Ranjan P**, Kumar A and Bhavesh NS. Dynamic association of PfEMP1 and KAHRP in knobs mediates cytoadherence during Plasmodium invasion. *Sci Rep.* 2015; 5:8617.
5. Ghosh D, Sahay S, **Ranjan P**, Salot S, Mohite GM, Singh PK, Dwivedi S, Carvalho E, Banerjee R, Kumar A, Maji SK. The newly discovered Parkinson's disease associated Finnish mutation (A53E) attenuates the α -Syn aggregation. *Biochemistry* 2014; 53:6419-6421.