## 第10回 RcMcD 融合研究セミナー (5研究科共同セミナー)

演 題:Uncovering the Sequence Grammar of Intrinsically Disordered Proteins

講演者:Rohit V. PAPPU 先生

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日 時:平成27年12月10日(木)14:35~16:05

場 所:広島大学先端物質科学総合研究棟 302S 会議室

## [Abstract]

Intrinsically disordered proteins (IDPs) make up roughly 30% of eukaryotic proteomes. As autonomous units. IDPs adopt heterogeneous ensembles of conformations and this preference for heterogeneity is encoded at the level of the amino acid sequences. Trans factors including nucleosome positioning barrier factors and transactivators are enriched in disordered regions. Our work over the past few years has helped demonstrate that sequences of IDPs can be partitioned into distinct conformational classes. These composition to conformation and sequence to conformation relationships facilitating our understanding of the relationships between disorder and function. The talk will provide concrete illustrations of the role of IDPs in cell division and transcriptional regulation of Notch genes. The talk will also discuss connections to nucleosome positioning that is regulated by IDPs.

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