

# ERATO末松ガスバイオロジープロジェクト 慶應義塾大学医学部医化学教室 共同講演会

◆日時 8月25日(水) 17時～19時

◆場所 総合医科学研究棟 1階ラウンジ

新宿区信濃町35(JR信濃町駅 徒歩1分)

◇講演者 **David Scott 先生**

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National Centre for Macromolecular Hydrodynamics  
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◇演題 **Intrinsic Disorder in the liquid and the gas phase**

Abstract:

We now understand that many proteins in nature have domains that do not exist as natively folded structures. Such intrinsically disordered domains, or IDPs, are common on eukaryotes and as hubs in cellular networks. The bacterial plasmid partition protein KorB is a little unusual in that it contains two disordered domains. We have characterised its solution conformations using small angle scattering and other biophysical techniques and have started to characterise its interactions using nanospray mass spectrometry. We show that the protein appears more collapsed compared with the solution phase, and that this may be a consequence of the level of hydration of IDPs compared with folded proteins.

References: Rajasekar et al (2010). Order and disorder in the domain organisation of the plasmid partition protein KorB. *J. Biol. Chem.* 285 15440-15449

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◆共催 グローバルCOEプログラム『In vivoヒト代謝システム生物学拠点』