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# The 53rd iCeMS SEMINAR

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2010 8. 09 (月)  
16:00-17:00

演 題 : **Emulsions and Oil/Water Interfaces**  
**New Tools for Biophysics and Microsystems Technologies**

講演者 : **Assoc. Prof. Jacques Fattaccioli**  
Department of Chemistry,  
École Normale Supérieure (ENS), フランス

場 所 : 京都大学 アイセムス本館 2階 (東一条北西角)  
セミナー室 (A207)

Our research interests relies on the precise design and control of the properties of microsystems having one or more oil-water interfaces, such as emulsion droplets suspensions or microfluidic devices. After a short introduction about the ENS, the Department of Chemistry and the Nanoflux laboratory, we will first describe how the oil-water interface of emulsion droplets can be functionalized by biomimetic molecules and how the droplets can adhere specifically on substrates and bring a new understanding of the cell-cell adhesion biophysics. Then, we will present the results obtained with oil droplets decorated by molecular motors for the construction of bio-MEMS devices. Finally we will show how the presence of an oil-water interface in a microchamber allows controlling the localization of the nucleation process of a protein crystal.

主 催 : 京都大学 物質-細胞統合システム拠点 (iCeMS = アイセムス)  
京都大学 工学研究科 マイクロエンジニアリング専攻

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