

演題：**Carbohydrate-based block copolymer
self-assemblies: Nanoparticles & Sub-10nm
highly nanostructured thin films**

講師：**Prof. Redouane BORSALI**

フランス国立科学研究センター
植物高分子研究所 (CERMAV-CNRS) ・
Grenoble Alpes University, France



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セミナー室1

要旨：

Current knowledge in macromolecular engineering allows for the preparation of a myriad of tailored block copolymer morphologies, which play distinguished, multifaceted roles in nanoscience and technology. Such systems exhibit a remarkable ability to self-assemble into a great variety of supra-macromolecular structures both in solution (nanoparticles) and in thin films, whose domain spacing span from few to hundred nanometers. Most of those systems are, however, derived from petroleum: A resource that is being rapidly depleted! We have recently developed novel glycopolymer (carbohydrate-based) leading by self-assembly process to thin films shooting down to few nm-high-resolution nanoscale pattern which found a number of key applications, spanning from nanolithography, pharmaceutical, and biomedical engineering flexible electronic devices.

本講演は、大学院総合化学院『化学研究先端講義（修士課程選択科目）／総合化学特別研究第二（博士後期課程選択科目）』の一部として認定されています。

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