



UNIVERSITÉ DE STRASBOURG



CONFÉRENCE

Dr. Yoshinori TAKASHIMA

Professeur invité à l'Unistra, Osaka University

«Supramolecular materials, reminiscent of living tissue»



Molecular recognition of small molecules and macromolecules is important in many functions in biological systems. Herein, we focus on muscle motion, self-healing properties, and cell adhesion via dynamic movement and selectivity through molecular recognition properties. We have created stimuli-responsive supramolecular materials that act through molecular recognition.

Our research group has employed cyclodextrins (CDs) for this purpose. CDs are a family of macrocyclic oligosaccharides. To realize functional supramolecular materials controlled by host-guest interactions, we have attempted to realize sol-gel switching, self-healing, adhesion control, and contraction-expansion properties through the formation of inclusion complexes with CDs. Our research aims at observing molecular recognition events on a macroscopic scale. Especially, I would like to introduce self-healing materials and photo-stimuli materials.

Conférence tout public – en anglais

Entrée libre – dans la limite des places disponibles

Mardi 20 mars 2018 à 17h30
Maison Universitaire France-Japon
42a, Avenue de la Forêt Noire à Strasbourg

Contacts et informations

JSPS Strasbourg Office (03 68 85 20 17) – Maison Universitaire France Japon (03 68 85 20 12)