222nd iCeMS Seminar

October 11, 2024

4pm–5:30pm

Kyoto University KUIAS/iCeMS Main Building
2F Seminar Room

Dr Kou Okuro

Associate Professor
at Department of Chemistry The University of Hong Kong

Guanidinium-based Molecular Glues for Controlling Biomolecular Functions

Controlling biomolecular functions, including proteins and nucleic acids, is a central issue in biomaterials research. We have developed water-soluble polymers with multiple guanidinium ions as "molecular glues", which adhere to various biomolecules through multivalent salt-bridge interactions. This adhesion enables biomolecular function control through altering surface properties, stabilizing biomolecular assemblies, and blocking biomolecule interactions. Stimuli-responsive molecular glues can translate diverse physicochemical stimulations into biological outputs.

More details are available at the iCeMS website:
www.icems.kyoto-u.ac.jp

Contact iCeMS Research Administration Division at innovcd@mail2.adm.kyoto-u.ac.jp
Hosted by Kyoto Universivty Institute for Integrated Cell-Material Sciences (iCeMS)

iCeMS
KYOTO UNIVERSITY
WPI Research Center