

外国人特別講演会のお知らせ



主催：有機合成化学協会中国四国支部

講師：Jeffery T. Davis 教授

(Department of Chemistry and Biochemistry,
University of Maryland)

演題：“Transmembrane Ion Transport by Some Natural
Product Derivatives”

日時：平成 23 年 5 月 30 日（月）16:00～

場所：理学部 B603 講義室

Overview: One long-term goal is to build “*Self-Assembled Ionophores*” that bind cations, anions and ion pairs based on the guest’s size, charge and shape. Instead of covalent bonds, non-covalent interactions are used to synthesize these receptors. For example, lipophilic nucleosides hydrogen bond to give assemblies that bind ions. Some of these self-assembled ionophores are selective for cesium and radium ions, making them potentially valuable for separations of environmentally important ions.

Our research aims are:

Aim #1) *synthesize transmembrane ion channels by using self-assembly;*

Aim #2) *prepare new ionophores formed by covalent capture of supramolecular assemblies*

Aim #3) *effect selective transmembrane anion transport by controlling ligand conformation.*

連絡先：理学研究科化学専攻 構造有機化学研究グループ
灰野 岳晴（内線 7427）

E-mail: haino@sci.hiroshima-u.ac.jp