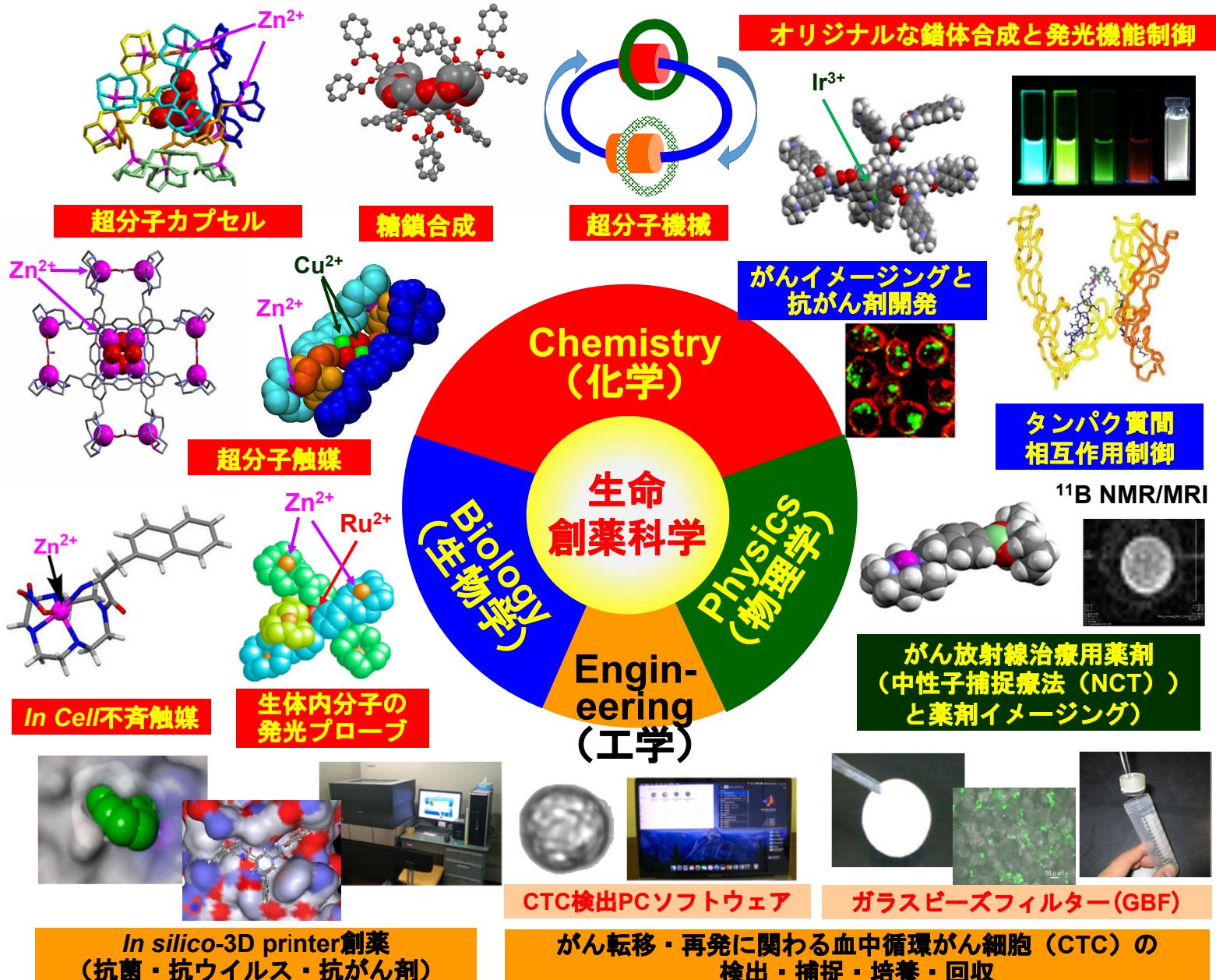


生命創薬科学科

青木伸研究室 (生物有機化学)

<https://www.rs.noda.tus.ac.jp/aokilab/>

オリジナルな分子・自己集積体の設計・合成に基づく
生体現象・生体反応の理解と制御
～機能性分子の創製・触媒反応開発・創薬～



セレンディピティ (非常識の発見・小さな発見を大きな研究に)
Negative thinking → Positive thinking
基礎科学重視・Only One in the World



生物有機化学フォーラム2017（青木研15周年記念講演会）
2017（平成29）年11月11日(土) 森戸記念館・神奈川8号館



2019（令和元）年の研究室メンバー



Department of Medicinal & Life Sciences

Bioorganic & Bioinorganic Chemistry Laboratory (Prof. Shin Aoki)

<https://www.rs.noda.tus.ac.jp/aokilab/>

Design & Synthesis of New Artificial Compounds & Supramolecular Complexes for Biological & Medicinal Chemistry & Material Sciences (Probes, Catalysts & Drugs)

Supramolecular capsules

Oligosaccharide synthesis

Supramolecular machines

Design & synthesis of original metal complexes

Supramolecular catalysts

Cu²⁺

Zn²⁺

Theranostics (diagnosis & thapeutics) of cancer

In Cell asymmetric synthesis

Luminescence probes of intracellular molecules

Controlling protein-protein interaction

11B NMR/MRI

PC software for CTC detection

Glass-bead filters (GBF) for CTC separation & regrowth

Detection, separation, regrowth, and recollection of circulating tumor cells (CTC) for cancer theranostics

In silico-3D printer-based drug design
(Antibiotics, antiviral & anticancer agents)

Discovery of New Phenomena (Serendipity is Important)

Only One in the World Based on Basic Science

Postgraduate Students & PD from Foreign Countries are Welcome



Forum on Bioorganic Chemistry 2017 (the 15th anniversary)
November 11, 2017 (Morito Memorial Hall)



Group photo in 2019

