東工大 化学生命科学研究所 講演会のお知らせ

CLS Open Seminar

Building Small Molecules, Lipid Self-Assemblies, and Nucleic Acids for New Opportunities in Biotechnology and Synthetic Biology

Prof. Enver Cagri Izgu

Department of Chemistry and Chemical Biology Rutgers University, New Brunswick, USA

2023, 20th, April (Thu) 9:00am-10:00am

Online_zoom (need registration):

https://zoom.us/meeting/register/tJUldumrrjsjHNBcLdFKYma3hVtG6RAOMauU



The Izgu Lab @ Rutgers University is developing new-generation molecular tools and chemoenzymatic methods to fight against bacterial pathogens, detect biomarkers, explore and expand the scope of biocatalysis, and build synthetic protocells with features that are naturally inaccessible. The multidisciplinary approach of the Izgu Lab leverages the unique architectures of small molecules and macromolecules, each designed based on their inherent reactivity, binding affinity, or three-dimensional folding characteristics. The current library of their designer molecules is diverse, ranging from catecholamines and phospholipids to structured nucleic acids. Prof. Izgu's seminar will describe these molecular designs and their biologically relevant implementations, all from an organic chemist's perspective.



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