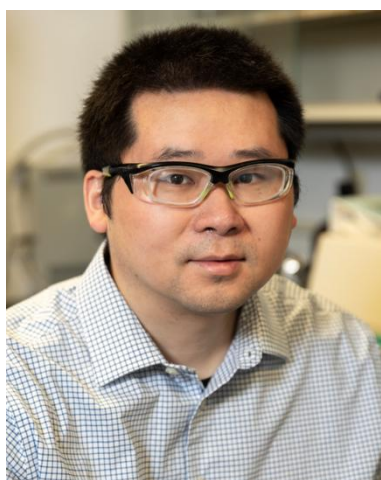




ICReDD International Seminar Series

Prof. Dr. Yang Yang (University of California Santa Barbara/Howard Hughes)

New Strategies for Stereoselective Radical Biocatalysis



Place: ICReDD Hall A, ICReDD Building, Hokkaido University

Time: Friday, 16 October 2026
16:30-18:00

Abstract: Combining synthetic chemistry, enzymology, and de novo protein design and protein engineering, our group has been actively advancing new biocatalytic strategies for stereoselective free radical processes. The ability to perform diversity-oriented synthesis combinatorially through previously elusive biocatalytic C–C bond formation marks a synthetically valuable advance, paving the way for broader adaptation and application of biocatalysis in medicinal chemistry. Furthermore, we demonstrate that the exploitation of biocatalyst-photocatalyst synergy affords a new paradigm to design and develop a range of stereoselective intermolecular radical reactions using new mechanisms.

