Institute of SCIENCE TOKYO

第285回 LBBセミナー

Access to Novel Fluorinated Motifs via Transition Metal-Catalyzed Defluorinative Functionalization Strategy

Prof. Gavin Chit Tsui

Department of Chemistry,
the Chinese University of Hong Kong

日時：2025年7月14日(月) 17:00～18:00
場所：22号館 1階 マルチタスクルーム

講演概要

Methods for introducing fluorine or fluorine-containing groups into organic molecules are becoming relatively mature that have been used widely for the synthesis of valuable organofluorine compounds. Alternatively, the selective cleavage and functionalization of C-F bonds in poly- or perfluorinated molecules constitute an attractive approach to access fluorinated compounds with unique advantages. In this presentation, we will disseminate the recent efforts in our research group for developing the defluorinative functionalization strategy via transition metal catalysis. By utilizing gem-difluoroalkenes and perfluoroalkyl alkenes as versatile building blocks, a diverse array of transformations can be achieved to convert a C-F bond into C-C or C-heteroatom bonds with excellent selectivities.

お問い合わせ：生命有機化学分野 隅田 有人（内線：8114）
E-mail: sumida.yuto@tmd.ac.jp