

化学科講演会のお知らせ

講演題目：Uphill Synthesis

講師：Professor Hsuan-Hung, Liao

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日時：3月9日（月）16時00分より

場所：南7号館7階セミナー室

Short summary of the lecture: The organic chemists' synthetic toolbox is essentially filled with thermal organic transformations that are highly restricted to the preparation of lower-energy products from higher-energy precursors due to microscopic reversibility. Breaking free from this equilibrium thermodynamics by bringing organic synthesis “uphill”—utilizing chemically modified intermediates with relatively elevated energies or photoexcited substrates—transfigured the reaction design landscape, allowing the contra-thermodynamic synthesis of higher-energy products from lower-energy starting materials. Herein, we present how “uphill synthesis” as a central research theme in synthetic methodology development enabled the use of traditionally stable yet abundant feedstock materials as platforms for compounds with economic and medicinal value.

問い合わせは秋山まで