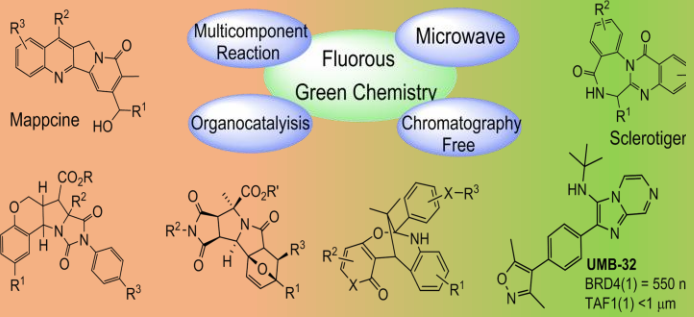
THE UNIVERSITY OF TOLEDO
1872

CHEMISTRY AND BIOCHEMISTRY COLLOQUIUM

Fluorous Green Synthesis for Medicinal Chemistry and Organocatalysis

Abstract: This presentation highlights our recent effort on the development of fluorous technology for green synthesis. Fluorous tag-attached substrates including products and catalysts could be easily separated from the reaction mixture by fluorous solid-phase extraction (F-SPE). Fluorous synthesis has been integrated with atom-economic multicomponent reactions, energy-focused microwave reactions, and chromatography-free separation for the synthesis of biologically interested heterocyclic compounds and natural product analogs. Recyclable fluorous organocatalysis has been applied for one-pot reactions involving fluorination, Michael addition, Mannich reactions, and Robinson annulation for asymmetric synthesis of diverse ring skeletons with multiple chiral centers.



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Monday, November 16th 2015
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WO 1205

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