

演 題 : Exploring Synthetic Methods and Their Utilities

in the Syntheses of Natural Products

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場 所 : 工学研究科 材料・化学棟大講義室 ( MC030 )

共 催 : 日本化学会北海道支部 , 触媒化学研究センター談話会

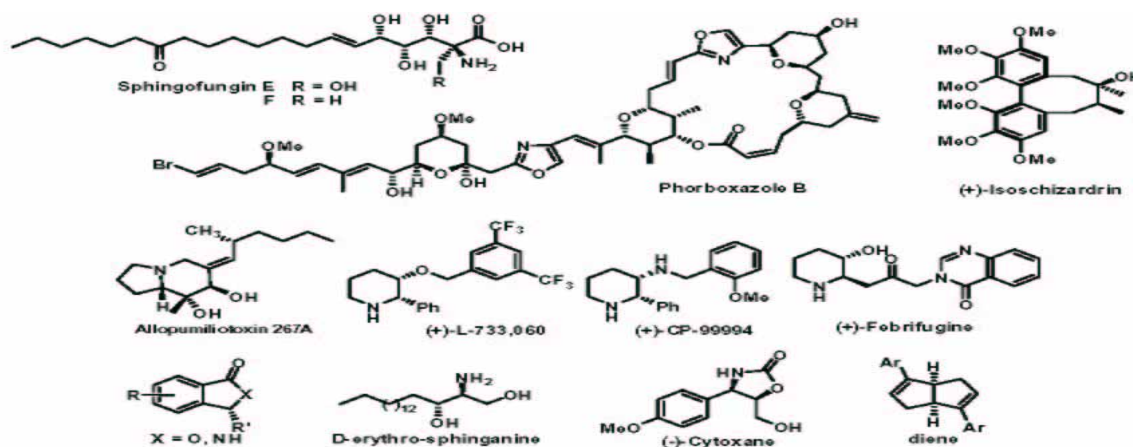
要旨 :

This presentation describes our recent efforts in the development of new synthetic methodologies and their applications for the synthesis of natural products.

Interests are paid on the efficient synthesis of optically active amines which include vicinal *C2*-symmetrical diamines, vicinal unsymmetrical diamines, *syn/anti* amino- alcohols and homoallylic amines based on the strategy of *N-tert*-butansulfamide auxiliary-mediated nucleophilic addition or new scaffolded Rh-diene catalyzed asymmetric synthesis. Another topic is the new approaches for the synthesis of 3-substituted phthalides and axial atropisomeric biaryls.

The usages of these synthetic methods are illustrated by the synthesis of several natural or bio-active products.

Following are the representative synthetic target molecules:



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