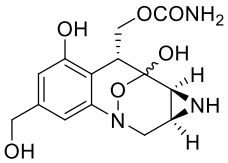
Synthetic Studies on Heterocyclic Natural Products

Marco A. Ciufolini

Department of Chemistry, University of British Columbia

2036 Main Mall, Vancouver, BC V6T1Z1, Canada.
ciufi@chem.ubc.ca

This presentation highlights synthetic efforts toward *Erythrina* alkaloids, himandrin, and tetrodotoxin through the oxidative amidation of phenols; of mitomycinoids via new methodology for the assembly of medium-ring nitrogen heterocycles; and of thiopeptide antibiotics such as micrococcins P1 and P2 through successive refinements of the route to a crucial heterocyclic subunit. The focus of the seminar is the development of new chemical technology to address problems in synthetic organic chemistry. Accordingly, the talk will provide details of how and why natural product targets were selected and how the relative synthetic campaigns were planned and executed. Nonetheless, the presentation should be readily accessible to a broad audience of faculty, graduate students, and undergraduates.



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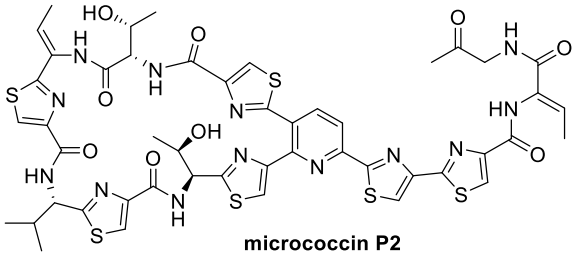
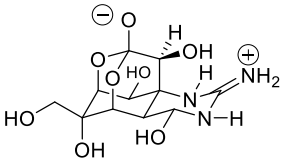


micrococcin P2



tetrodotoxin