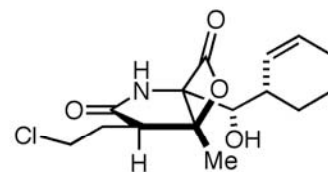
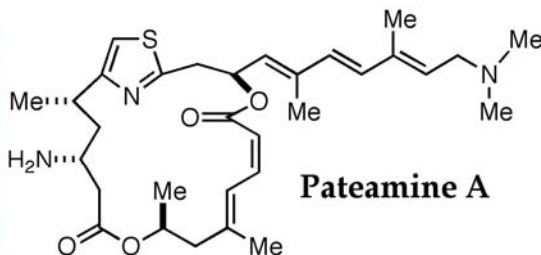
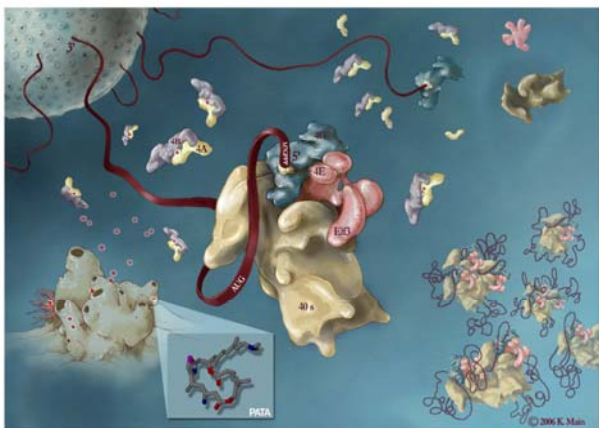
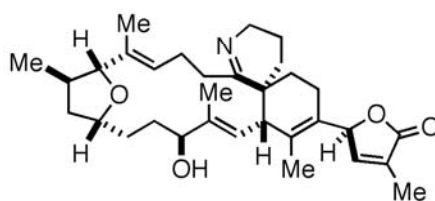


Organic Synthesis, Inc. Lecture

**Salinosporamide A****Gymnodimine**

Natural products continue to be versatile forums for synthetic strategy development, for identification of probes for basic cell biology, and lead discovery for human disease intervention. In this regard, the marine sponge isolate, pateamine A (PatA) from *Mycale* sp., has allowed us to explore each of these facets of natural products chemistry.

In more recent chemical synthesis efforts, we have developed novel strategies to gymnodimine, the seemingly simplest member of a class of spirocyclic imine-containing toxins for use as an immunogen for development of an ELISA assay for ocean toxin monitoring. Recent advances in our development of the nucleophile catalyzed aldol-lactonization (NCAL) process leading to bicyclic β -lactones has enabled a concise, $A^{1,3}$ -strain enabled, enantioselective synthesis of the potent proteasome inhibitor, salinosporamide and designed derivatives.

Bioactive Natural Products as Enduring Forums for Chemical Synthesis, Cellular Probe Discovery, and Identification of Therapeutic Targets

Prof. Daniel Romo
Texas A&M University

Monday – November 9, 2009

4:00 pm: Lecture

3:30 pm: Pre-Lecture Reception

Life Science and Engineering Building Auditorium

24 Cummington Street, B01

www.bu.edu/chemistry