
UNIVERSITY OF RHODE ISLAND

Department of Chemistry

SEMINAR

Room 234 Pastore Hall

3:00 p.m, Monday, April 11, 2016

Prof. David Chenoweth

Department of Chemistry

University of Pennsylvania

Philadelphia, PA

***"Control and Imaging of
Cellular Processes
Using New Chemical Tools"***

HOST

Mindy Levine

Department of Chemistry

401-874-4243

Control and Imaging of Cellular Processes Using New Chemical Tools

*Prof. David Chenoweth
Department of Chemistry
University of Pennsylvania
Philadelphia, PA*

Abstract

Chemical tools are invaluable for modulating, probing, manipulating, and imaging biological systems. Our laboratory is developing new small molecule and peptide based chemical tools to probe and monitor biological systems in a spatially defined and temporally controlled manner. Recent results from our laboratory describing modular chemical tools to control protein localization in living cells have paved the way for several recent advances aimed at controlling cellular processes. This work will be discussed in the context of new chemical tools for studying biology. In addition to small molecule chemical tools, our laboratory is interested in developing peptide based chemical tools. Recent work from our laboratory detailing a new class of self-assembling peptides will also be presented.