

J.W.T. Spinks Lecture Series

Department of Chemistry

Speaker

**Dr. Chris Chang, Class of 1942 Chair Professor
Departments of Chemistry and Molecular
and Cell Biology
and the Howard Hughes Medical Institute
University of California, Berkeley**



Research Lecture

Activity-Based Sensing Approaches to Decipher Transition Metal Signaling

Traditional strategies for development of chemoselective imaging reagents rely on molecular recognition and static lock-and-key binding to achieve high specificity. We are advancing an alternative approach to chemical probe design, termed activity-based sensing (ABS), in which we exploit inherent differences in chemical reactivity as a foundation for distinguishing between chemical analytes that are similar in shape and size within complex biological systems. This presentation will focus on activity-based sensing approaches to develop new fluorescent probes for transition metals and reactive oxygen, sulfur, and carbon species and their signal/stress contributions to basic behaviors like eating and sleeping.

Date: Thursday, April 25, 2019
Time: 3:45 p.m.
Place: Thorvaldson 105

EVERYONE WELCOME