JOSEPH F. FOSTER MEMORIAL
CHEMICAL BIOLOGY AND BIOCHEMISTRY SEMINAR

Monday, February 26, 2024
3:30 PM~VIRTUAL

Zoom Link
Meeting ID: 312 236 7220
Password: chemistry

"Post-Translational modification in chemical biology and drug discovery."

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Department of Chemistry

ABSTRACT:

The Tate lab develops novel chemical biology approaches to enable drug discovery against post-translational modification (PTM) pathways and intractable drug targets, including chemical proteomic target identification, screening technologies, and chemical probe discovery for protein-protein interactions and enzymes modulating PTMs. Recent highlights include the first cell-active activity-based probes (ABPs) for deubiquitinases (DUBs), new tools for analysis and discovery of pathogenic secreted protease activities, and the first comprehensive maps of specific classes of protein lipidation PTM through chemical genetics and proteomics. We are also interested in new modalities including antibody-PROTAC conjugates and targeted protein degradation.