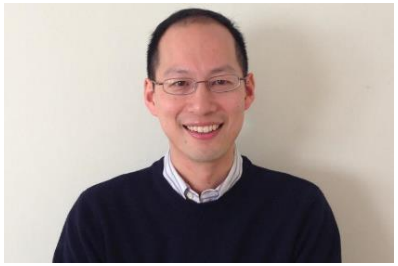
The Doctoral Program **ION CHANNELS AND TRANSPORTERS AS MOLECULAR DRUG TARGETS** („MolTag“)

is pleased to invite you to the following **ONLINE** lecture

"Activity-Based Sensing Approaches to Decipher the Elements of Cell Signaling”



by Christopher J. CHANG

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on: Wednesday, November 3rd, 2021, 16:00/4:00 PM (CEST)

Host: Univ.Prof.Dr. Nuno Maulide, Organic Chemistry, University of Vienna

Meeting link: Please join our meeting from your computer or tablet:

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Abstract: Traditional strategies for developing selective imaging reagents typically 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, 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 development of activity-based sensing probes to visualize dynamic fluxes of transition metal ions and reactive oxygen species and their signaling and stress contributions to living systems, along with activity-based proteomics to identify novel targets and pathways that these emerging classes of chemical signals regulate**. These chemical tools enable the discovery of new biology from transition metal signaling and metalloallostery to redox signaling.

For research interest and biography see: https://chemistry.berkeley.edu/faculty/chem/chris-chang

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