

# BIOCHEMISTRY SEMINAR SERIES

Faculty Research Seminars – Fall 2020



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**Prof. Joe Loo**

**UCLA Chemistry & Biochemistry**

The research interests of Professor Loo's group include the development and application of bioanalytical methods, including mass spectrometry, for the structural characterization of proteins and large protein complexes, and proteomics-based research.

A mass spectrum contains information not only on the protein's molecular mass, but it can also highlight the presence of protein post-translational modifications (PTMs). We are developing new methods to uncover these features in a mass spectrum.

Mass spectrometry strategies are used to determine the amino acid sites of noncovalent protein-ligand binding for unique compounds that protect against neurodegenerative protein toxicity, and this information can be used to design more potent compounds. Proteomics methods are used to characterize microbial metabolic pathways and to identify unique PTMs that relate to the organism's metabolic pathways.

**Friday, December 4, 2020**

**via Zoom**

**3:30 pm**