

BIOCHEMISTRY SEMINAR SERIES

Faculty Research Seminars – Fall 2021



Our laboratory is focused on the biochemistry of posttranslational modifications in metabolism and the aging process. We are currently interested in understanding the role of the mammalian family of protein arginine methyltransferases. These enzymes are known to be involved in modulating transcription, signalling, DNA repair, and splicing, and overexpression of certain PRMTs has been linked with various types of cancer. Our lab has recently been characterizing human PRMT7 which has a specific sequence specificity for RXR basic motifs, found in histone H2B among other proteins, and a very unusual optimal activity at 10 °C. A second major interest focuses on how the accumulation of spontaneously damaged proteins in the aging process affects cellular function. We are specifically interested in the degradation of aspartic acid and asparagine residues and the subsequent metabolism of their racemized and isomerized derivatives by both protein "repair" reactions and targeted degradation reactions. Finally, we are exploring the role of protein isomerization in the pathology of Alzheimer's disease.



Prof. Steve Clarke

UCLA Chemistry & Biochemistry

The Wollman lab measures, models, and manipulates signaling activities at the single-cell level to understand Dynamic Cellular Information Processing. We strive to understand cellular decision making, biological variation, and biological noise using multidisciplinary approaches.



Prof. Roy Wollman

UCLA Chemistry & Biochemistry

Friday, November 19, 2021

Mol Sci 3440

3:30 pm