

SPECIAL SEMINAR

“FAT, DEATH, AND DRUGS: MECHANISMS OF CELLULAR LIPID HOMEOSTASIS AND FERROPTOSIS”

Thursday, October 10th, 2024

12:00 p.m. - 1:00 p.m.

O. Wayne Rollins Research
Center
Room 5052

JAMES OLZMANN, PHD

**Doris Howes Calloway Chair & Professor
Department of Molecular & Cell Biology:
Division of Molecular Therapeutics
Department of Nutritional Sciences
and Toxicology
University of California, Berkeley**

**2024 Distinguished
Alumni of the Year Award
Winner**

2007 Graduate of the Neuroscience Program

The research in the Olzmann lab aims to elucidate the mechanisms that govern cellular lipid homeostasis, including neutral lipid storage in lipid droplets and lipid damage leading to lipotoxic cell death. In this seminar, Dr. Olzmann will discuss advances in our understanding of the cell biology that underlies lipid quality control and ferroptosis, a form of non-apoptotic cell death that involves the accumulation of oxidatively damaged phospholipids (i.e., lipid peroxides). Recent findings will be presented highlighting the power of genetic discovery approaches to uncover therapeutically relevant mechanisms that can be targeted to regulate oxidative lipid damage and ferroptosis in health and disease.



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