

New Approaches for Characterizing Mitochondrial Signaling in Response to Environmental Stress

November 7, 2018

NIEHS Building 101, Rodbell Auditorium • 111 TW Alexander Drive, Research Triangle Park, N.C.

AGENDA

- 7:30 a.m. Registration
- 8:30 a.m. Welcome and Introductions Rick Woychik, Deputy Director, NIEHS

Grantee Updates – Session One

Moderator: Kimberly McAllister, NIEHS

- 8:45 a.m. ROS Driven Mitochondrial-Telomere Dysfunction During Environmental Stress Ben Van Houten and Patricia Opresko, University of Pittsburgh
- **9:15 a.m.** Inducible Mouse Models of Mitochondrial ROS Signaling and Environmental Stress Gerald Shadel, Salk Institute for Biological Studies
- **9:45 a.m.** New Oxidation-Sensing Probes to Evaluate Mitochondrial Dysfunction in Lung Injury Cristina Furdui and Bruce King, Wake Forest University
- 10:15 a.m. Break

Grantee Updates – Session Two

Moderator: Fred Tyson, NIEHS

- 10:30 a.m. Study of the Mitochondrial-Cellular Response to Environmental Stress by Fluorescence Imaging Gyorgy Hajnoczky and Gyorgy Csordas, Thomas Jefferson University
- **11:00 a.m.** Imaging Heme Based Mitochondrial-Cell Signaling Networks in Cell and Animal Model Amit Reddi, Georgia Institute of Technology
- 11:30 a.m. RT-SQuARED-M Method to Study the Precise Role of Mitochondria in the Oxidative Damage Caused by Environmental Toxins Kasturi Mitra, University of Alabama at Birmingham

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Noon	Lunch
1:15 p.m.	Histone Tails As an Energy Reservoir for Cellular Metabolism Raul Mostoslavsky, Massachusetts General Hospital
Grantee Updates – Session Three	
Moderator: Dan Shaughnessy, NIEHS	
1:45 p.m.	Imaging Mitochondrial Signaling in B-Cells Ectopically Implanted in the Eye Carlos Moraes, University of Miami
2:15 p.m.	Irgm1 Reveals New Connections Between Mitochondrial Quality Control and Autoimmunity Michael Fessler, Acting Chief, Immunity, Inflammation, and Disease Laboratory, NIEHS
2:45 p.m.	Break
3:00 p.m.	Mitochondrial Dysfunction in Pathobiology John Lemasters, Medical University of South Carolina
3:30 p.m.	Mitochondrial Dynamics in the Regulation of Energy Expenditure and Fuel Preference Orian Shirihai, UCLA
4:00 p.m.	Panel Discussion Moderator: Janine Santos, NIEHS
5:00 p.m.	Meeting Ends