



2023 Redox Biology Center Symposium

At the intersection of redox and metabolism

University of Nebraska – Lincoln
Willa Cather Dining Complex
(530 N 17th Street, Lincoln, NE)

Thursday, October 12, 2023

8:15 AM Breakfast and Registration

9:15 AM Welcome and Opening Remarks

Dr. Nathan Meier, Assistant Vice Chancellor for Research Development
Dr. Oleh Khalimonchuk, Redox Biology Center Director
Dr. Don Becker, Chair, Department of Biochemistry

9:30 AM ***Recent discoveries on functions of GPX4, TXNL1
and TXNDC17 in relation to the selenoprotein TXNRD1***

Elias Arnér, Ph.D. Professor
Department of Medical Biochemistry & Biophysics
Karolinska Institutet, Stockholm, Sweden

10:20 AM ***Controlling mitochondrial energetics and ROS production with light***

Andrew Wojtovich, Ph.D. Associate Professor
University of Rochester Medical Center
School of Medicine and Dentistry

11:10 AM Coffee break and poster session

12:00 PM Lunch

1:00 PM ***Selenium, redox and aging***

Vadim Gladyshev, Ph.D. Professor, Medicine, Harvard Medical School
Director of Redox Medicine, Medicine, Brigham and Women's Hospital

- 1:50 PM ***Modulation of peroxiredoxins and reductase systems influencing signaling and survival***

 Leslie Poole, Ph.D. Professor, Biochemistry
 Co-director of the Center for Redox Biology and Medicine
 Wake Forest University School of Medicine
- 2:40 PM Coffee break and continued poster session
- 3:10 PM ***Rewired Sulfur Amino Acid Metabolism Provides Thiols Supporting Cell Survival in the Absence of Disulfide Reducing Power***

 Ed Schmidt, Ph.D. Professor
 Microbiology and Immunology, Biotechnology
 Montana State University
- 4:00 PM CLOSING KEYNOTE SPEAKER
 A mitochondrial paradigm for sulfide signaling paragraph

 Ruma Banerjee, Ph.D. Vincent Massey Collegiate Professor
 Biological Chemistry, University of Michigan Medical School
- 4:50 PM Closing remarks
 Dr. Oleh Khalimonchuk, Redox Biology Center Director



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