

Bioenergetics Subgroup 2017 Symposium
Saturday, February 11, 2017
New Orleans, Louisiana
9:00 AM- 7:00 PM
Room R01

9:00 AM

Introduction

Subgroup Co-chairs: *Elizabeth Jonas*, Yale University, and *George Porter, Jr.*, University of Rochester

Morning Symposium: High Resolution Structure, Function and Dynamics of Mitochondrial Proteins

Program Chairs: *Nelli Mnatsakanyan*, Yale University, and *Shelagh Ferguson-Miller*, Michigan State University

9:10 AM

Near-neighbor relationships of the atypical subunits that form the peripheral stalk of the mitochondrial ATP synthase in chlorophycean algae

Diego Gonzalez-Halphen, National Autonomous University of Mexico

9:40 AM

The Mechanism of Proton Pumping by Respiratory Complex I

Ulrich Brandt, Radboud Center for Mitochondrial Medicine, The Netherlands

10:10 AM

*Mitochondrial Metabolism Determines the Spatio-Temporal Organization of Single *f1fo* Atp Synthase in Live Human Cells*

Karin Busch, Westfaelische Wilhelms University, Muenster, Germany

10:40 AM **Coffee Break**

11:00 AM

Mitochondrial DNA replication, Twinkle.

Maria Sola, Molecular Biology Institute of Barcelona, Spain

11:30 AM

Probing the Regulatory and Transport Mechanism of Mitochondrial Carriers with Thermostability Shift Assays

Edmund Kunji, MRC-Mitochondrial Biology Unit, Cambridge, United Kingdom

12:00 PM

Pore Architecture and Ion Selectivity Filter of the Mitochondrial Calcium Uniporter

James Chou, Harvard University

12:30 PM **Lunch Break**

2:15 Presentation of the Young Bioenergetics Award Winner

Mitochondrial Redox Regulation in Health and Disease

Program Chairs: *Pablo Peixoto*, Baruch College, CUNY, and *Michelangelo Campanella*,
University of London, United Kingdom

2:30 PM

Reversing Electron Transport in Ischemia and Beyond
Paul Brookes, University of Rochester Medical Center

3:00 PM

Signaling by Cardiolipins: Re-Location and Re-Doxing in Mitochondria
Valerian Kagan, University of Pittsburgh

3:30 PM **Coffee Break**

3:50 PM

Redox Regulation of Cytochrome C Oxidase Assembly
Atoni Barrientos, University of Miami

4:20 PM

Mitochondrial Production of ROS: Deviations from the "Standard Model"
Anatoly Starkov, Cornell University

5:00 PM **General Discussion and Business Meeting**

7:00 PM **Subgroup Dinner**