

Mitochondrial Medicine 2011: Chicago, IL

Scientific Program Schedule

Day 1: Wednesday, June 15, 2011

7:00 a.m. **Registration and Continental Breakfast (Utopia Threshold)
Exhibits (Nirvana and Utopia Thresholds)
Posters (Utopia C-D)**

**Morning Platform Session: Regulation and Signaling
Platform Session 1 (All Scientific Sessions held in Nirvana Ballroom)**

- 8:00 a.m. **Welcome**
William Copeland, PhD, Course Chair
- 8:15 a.m. **Alternative Respiratory-Chain Enzymes: Molecular By-Pass Therapy
for Mitochondrial Diseases**
Eric Dufour, PhD
- 8:45 a.m. **Energymics & Energenomics: Mitochondrial Variation in Human
Adaptation and Predisposition to Common Diseases**
Douglas Wallace, PhD
- 9:15 a.m. **Mutations in Ethylmalonic Encephalopathy**
Massimo Zeviani, MD, PhD
- 9:45 a.m. **Break (Utopia Threshold)**
- 10:00 a.m. **Mitochondria as Signaling Organelles**
Navdeep S. Chandel, PhD
- 10:30 a.m. **Abstract Presentations (6)**
- 12:15 p.m. **Lunch (Schaumburg Salon East)**
- Afternoon Platform Session: MtDNA Transactions
Platform Session 2**
- 2:00 p.m. **MtDNA Replication Proteins and Disease**
Laurie Kaguni, PhD
- 2:30 p.m. **DNA2 in Mitochondrial DNA Repair**
Bing Shen, PhD
- 3:00 p.m. **mt RNA Polymerase, Transcription and Disease**
Craig Cameron, PhD
- 3:30 p.m. **The Mitochondrial DNA Polymerase in Disease**
William Copeland, PhD
- 4:00 p.m. **Abstract Presentations (4)**
- 5:00 p.m. **Break (Utopia Threshold) and Poster Sessions (non CME) (Utopia C-D)
Even numbers stay at posters**
- 6:30 p.m. **Adjourn**
Dinner on your own

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NOTE: A five minute question and answer period is included in each of the speaker's allotted time.

Day 2: Thursday, June 16, 2011

Morning Platform Session: Mitochondria Dynamics

Platform Session 3 (All Scientific Sessions held in Nirvana Ballroom)

- 8:00 a.m. **Mitochondrial Dynamics and mtDNA Stability**
Marc Vermulst, PhD
- 8:30 a.m. **Bax Regulates Mitochondrial Fusion via MFN2 Homotypic Complexes**
Jodi Nunnari, PhD
- 9:00 a.m. **Mitochondrial Dynamics as a New Pathway
for the Removal of Damaged DNA**
Joel Meyer, PhD
- 9:30 a.m. **Break (Utopia Threshold)**

Morning Platform Session: Mitochondrial Toxicity

Platform Session 4

- 9:50 a.m. **Avoiding Late Stage Attrition through Implementation of
Mitochondrial Screens Early In the Drug Discovery Process**
Yvonne Will, PhD
- 10:20 a.m. **Toxicity of Prescription Pharmacopoeia**
Bruce H. Cohen, MD
- 10:50 a.m. **The Metabolic Phenotype of Environmentally-Induced
Mitochondrial Disease**
Kendall Wallace, PhD
- 11:20 a.m. **Abstract Presentations (4)**
- 12:20 p.m. **Lunch (Schaumburg Salon East)**

Afternoon Platform Session: New Discoveries in Mitochondrial Disease

Platform Session 5

- 2:00 p.m. **Molecular Basis of Infantile Reversible Cytochrome c Oxidase
Deficiency Myopathy**
Rita Horvath, PhD
- 2:30 p.m. **New Inborn Errors of Mitochondrial Energy Metabolism involving
Iron-Sulfur Centres**
Brian Robinson, PhD
- 3:00 p.m. **Mitochondrial Encephalomyopathy: Pathogenesis and Therapeutic
Possibilities**
Michael Palladino, PhD
- 3:30 p.m. **Abstract Presentations (4)**
- 4:30 p.m. **UMDF 2011 Funded Projects (4)**
Lawrence Grossman, PhD
- 5:30 p.m. **Navigating the NIH for Early Stage Investigators (non-CME)**
Ljubisa Vitkovic, PhD
- 6:00 p.m. **Break (Utopia Threshold) and Posters Session (non CME) (Utopia C-D)**
Odd numbers stay at posters
Reception and Cash Bar (Utopia Threshold)
- 7:30 p.m. **Adjourn**

NOTE: A five minute question and answer period is included in each of the speaker's allotted time.

Day 3: Friday, June 17, 2011

Morning Platform Session: Therapeutic Approaches

Platform Session 6 (All Scientific Sessions held in Nirvana Ballroom)

- 8:00 a.m. **Effects of Exercise on Mitochondrial Biogenesis**
David Hood, PhD
- 8:30 a.m. **Exercise Therapy for Mitochondrial Disease: Overview of Current Strategies and Guidelines**
Tanja Taivassalo, PhD
- 9:00 a.m. **Correcting mtDNA Mutations in Human Oocytes**
Shoukhrat Mitalipov, PhD
- 9:30 a.m. **Break (*Utopia Threshold*)**
- 10:00 a.m. **Allogeneic Hematopoietic Stem Cell Transplantation for MNGIE**
Michio Hirano, MD
- 10:30 a.m. **Abstract Presentations (5)**
- 11:45 p.m. **Lunch (*Schaumburg Salon East*)**

Afternoon Platform Session: Clinical Trials Session, Combined Family and Researchers - Platform Session 7

- 1:00 p.m. **Introduction and Session Goals**
Peter Stacpoole, PhD, MD
- 1:15 p.m. **Working with the FDA in Developing New Therapies**
R.B. MacArthur, PharmD
- 1:45 p.m. **From Laboratory to Clinic: Translating Discoveries to Patients**
Edward Kaye, MD
- 2:15 p.m. **Explaining North American Mitochondrial Disease Consortium**
Michio Hirano, MD
- 2:30 p.m. **Break (*Utopia Threshold*)**
- 2:45 p.m. **From Anecdotal Studies to Randomized Clinical Trials**
Jerry Vockley, MD, PhD
- 3:15 p.m. **What Makes a Good Randomized Clinical Trial?**
John L. P. (Seamus) Thompson, PhD
- 3:45 p.m. **A Family's Perspective on Clinical Trials**
Michael Friedberg, FACHE, CHAM
- 4:15 p.m. **Forward Together! Joining Researchers and Community in Advancing Clinical Trials for Mitochondrial Diseases**
Chuck Mohan, UMDF CEO & Peter Stacpoole, PhD, MD to lead a panel discussion
- 5:30 p.m. **Adjourn**
- 6:30 p.m. **Reception (*Schaumburg Ballroom*)**
Friday Night Banquet and Awards Ceremony

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Day 4: Saturday, June 18, 2011

Special Session - Mitochondria and Diabetes

(All Scientific Sessions held in the Nirvana Ballroom)

- 8:30 a.m. Mitochondrial Disease Primer**
Bruce H. Cohen, MD
- 9:30 a.m. Diabetic Complications and Mitochondria**
Michael Brownlee, MD
- 10:00 a.m. Mitochondria and Age-Related Disease**
Laura Dugan, MD
- 10:30 a.m. Mitochondrial Stress increases Protein Succination and
Contributes to Endoplasmic Reticulum (ER) Stress in Diabetes**
Norma Frizzell, PhD
- 11:00 a.m. New Paradigms in Diabetic Complications**
Kumar Sharma, MD
- 11:30 a.m. Lunch (Schaumburg Salon East)**
- 1:00 p.m. Immunomitochondrial Biology**
Robert Naviaux, PhD
- 1:30 p.m. The Role of Mitochondrial GTP in Glucose Homeostasis**
Richard Kibbey, MD, PhD
- 2:00 p.m. Mitochondria, Inflammation and Fibrosis**
Pere Puigserver, PhD
- 2:30 p.m. Tissue Healing and Regeneration**
Ellen Heber-Katz, PhD
- 3:00 p.m. Break (Utopia Threshold)**
- 3:30 p.m. Autophagy, Mitochondria Degradation in Adipose Tissue, and
Metabolic Syndrome**
Shengkan (Victor) Jin, PhD
- 4:00 p.m. Exercise & Treatment of Mitochondrial Disorders**
Mark Tarnopolsky, MD, PhD
- 4:30 p.m. Clinical Panel Discussion**
4-6 Panelists
- 5:30 p.m. Adjourn**

--- Thank you for your attendance and participation ---

NOTE: A five minute question and answer period is included in each of the speaker's allotted time.

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