



# FASEB

Federation of American Societies  
for Experimental Biology

## Science Research Conferences

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### Mitochondrial Biogenesis and Dynamics in Health, Disease and Aging

May 21-26, 2017

(Sunday-Friday; West Palm Beach)

Organizers:

#### Organizing Committee

Carlos T. Moraes (University of Miami, FL)

Martin Ott (University of Stockholm, Sweden)

Eric A. Schon (Columbia University, NY)

Sunday, May 21, 2017

<u>Time</u>	<u>Title/Topic Event</u>	
4:00 p.m. – 9:00 p.m.	Conference Registration	
6:00 p.m. – 7:00 p.m.	Welcome Reception	
7:00 p.m. – 8:00 p.m.	DINNER	
8:00 p.m. – 9:30 p.m.	<i>Keynote Speaker / Opening Scientific Session</i>	<b>Jodi Nunnari (UC Davis) – <i>Mitochondrial Behavior</i></b>

Monday, May 22, 2017

<u>Time</u>	<u>Title/Topic Event</u>	
7:30 a.m. – 1:00 p.m., 4:00 p.m. – 6:00 p.m.	Conference Registration	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
9:00 a.m. – 12:00 p.m.	<i>Scientific Session</i>  <b>Session 1:</b> <b>Mitochondrial gene expression</b> <i>Chair: Toni Barrientos (Miami)</i>	<b>Maria Falkenberg (Gothenburg) - <i>Replication of mtDNA</i></b> <b>L. Stirling Churchman (Harvard) - <i>Coordination of nuclear and mitochondrial gene expression</i></b> <b>Dmitry Temiakov (Rowan) - <i>Replication- transcription switch in mitochondria</i></b> <b>Nenad Ban (ETH Zurich) - <i>Structural insights into mitochondrial protein synthesis</i></b>
10:00 a.m. – 10:15 a.m.	<i>FASEB Sponsored Coffee Break</i>	

12:00 p.m. – 1:00 p.m.	LUNCH and Meet the Experts Session	
1:00 p.m. – 2:30 p.m.	Career Development Workshop	
2:30 p.m. – 4:00 p.m.	Free time	
4:00 p.m. – 6:00 p.m.	<b>Scientific Session</b>  <b>Session 2: Respiratory chain complex assembly</b> <b>Chair: Dennis Winge (Utah)</b>	<b>Jose Antonio Enriquez (CNIC, Madrid) - Mechanism of superassembly between complexes III and IV</b> <b>Peter Rehling (Göttingen) - Regulation of COX1 synthesis in mammalian cells</b> <b>Cristina Ugalde, (Madrid) - Dynamics and regulation of respiratory supercomplex assembly</b> <b>Fabien Pierrel (Grenoble) – Biosynthesis of coenzyme Q</b>
6:00 p.m. – 7:00 p.m.	Conference Registration	
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 9:00 p.m.	<b>Poster Session</b>	

Tuesday, May 23, 2017

<u>Time</u>	<u>Title/Topic Event</u>	
7:30 a.m. – 1:00 p.m., 4:00 p.m. – 6:00 p.m.	Conference Registration	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
	<b>Scientific Session</b>  <b>Session 3: Mitochondrial protein biogenesis and quality control</b> <b>Chair: Peter Rehling (Göttingen)</b>	<b>Heidi McBride (McGill) - Mechanisms and meaning of mitochondrial derived vesicles</b> <b>Leo Pallanck (U. Washington) - Mechanisms of mitophagy</b> <b>Koji Okamoto (Osaka) - Upstream events regulating mitophagy.</b> <b>Chris Meisinger (Freiburg) - Posttranslational modifications modulate protein import</b>
10:00 a.m. – 10:30 a.m.	<i>FASEB Sponsored Coffee Break and *Group Photo</i>	
12:00 p.m. – 1:00 p.m.	LUNCH and Meet the Experts Session	
1:00 p.m. – 4:00 p.m.	Free time	
4:00 p.m. – 6:00 p.m.	<b>Scientific Session</b>  <b>Session 4: Mitochondrial stress in cell signaling and aging</b> <b>Chair: Grazia Isaya (Mayo)</b>	<b>Liza Pon (Columbia) - Filtering good from bad mitochondria during cell division: Implications for aging</b> <b>Alicia Kowaltowski (São Paulo) – Caloric restriction effects on mitochondrial function</b> <b>Siegfried Hekimi (McGill) - The impact of mitochondrial function of survival and death: from worms to patients</b> <b>Agnieszka Chacinska (Warsaw) - Stress- signaling of defective mitochondrial protein import</b>
6:00 p.m. – 7:00 p.m.	Conference Registration	
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 9:00 p.m.	<b>Poster Session</b>	

Wednesday, May 24, 2017

<b>Time a.m. – Time p.m.</b>	<b>Title/Topic Event</b>	
7:30 a.m. – 1:00 p.m., 4:00 p.m. – 6:00 p.m.	Conference Registration	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
9:00 a.m. – 12:00 p.m.	<b>Scientific Session</b>  <b>Session 5:</b> <b>Mitochondrial dynamics in development and disease</b> <b>Chair: Jodi Nunnari (UC Davis)</b>	<b>Elena Rugarli (Cologne)- <i>Post-transcriptional regulation of mitochondrial biogenesis</i></b> <b>Orian Shirihai (Boston) - <i>The impact of nutrients on mitochondrial turnover and biogenesis</i></b> <b>Peter Walter (UCSF) – <i>ER-Mitochondrial dynamics</i></b> <b>David Chan (Caltech) - <i>Mitochondrial dynamics and quality control</i></b>
10:00 a.m. – 10:15 a.m.	<i>FASEB Sponsored Coffee Break</i>	
12:00 p.m. – 12:30 p.m.	<b>Business Meeting</b>	
12:30 p.m. – 2:00 p.m.	LUNCH and <b>Meet the Experts Session</b>	
1:00 p.m. – 4:00 p.m.	Free time	
4:00 p.m. – 6:00 p.m.	<b>Scientific Session</b>  <b>Session 6:</b> <b>Mitochondrial driven mechanisms of mitochondrial dysfunction</b> <b>Chair: Vamsi Mootha (Harvard)</b>	<b>Anu Suomalainen (Helsinki) - <i>Integrated stress response in mitochondrial disease</i></b> <b>Pere Puigserver (Harvard) - <i>Transcriptional Control of Mitochondrial Bioenergetics</i></b> <b>Nils-Göran Larsson (Max Plank, Cologne) - <i>Regulation of mtDNA transcription in vivo</i></b> <b>Tsutomu Suzuki (Tokyo) - <i>Molecular pathogenesis of mitochondrial disease caused by tRNA modification deficiency</i></b>
6:00 p.m. – 7:00 p.m.	Conference Registration	
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 9:00 p.m.	<b>Poster Session</b>	

Thursday, May 25, 2017

<b>Time a.m. – Time p.m.</b>	<b>Title/Topic Event</b>	
7:30 a.m. – 1:00 p.m., 4:00 p.m. – 6:00 p.m.	Conference Registration	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
7:30 a.m. – 12:00 p.m.	Conference Registration	
9:00 a.m. – 12:00 p.m.	<b>Scientific Session</b>  <b>Session 7:</b> <b>New pathways, biomarkers and technologies to study mitochondrial function</b> <b>Chair: Nils-Göran Larsson (Max Plank, Cologne)</b>	<b>Michal Minczuk (Cambridge) - Manipulating mtDNA heteroplasmy with designer zinc-finger nuclease technology</b> <b>Michael Murphy (Cambridge) - Sources and consequences of mitochondrial superoxide production</b> <b>Shoukhrat Mitalipov (OHSU) - Germline and Somatic mtDNA Correction for Mitochondrial Disorders</b> <b>Estela Area-Gomez (Columbia) - ER-Mitochondrial interactions in aging and AD</b>
10:00 a.m. – 10:15 a.m.	<i>FASEB Sponsored Coffee Break</i>	
11:30 a.m. – 12:00 p.m.	Business Meeting	
12:00 p.m. – 1:00 p.m.	LUNCH and Meet the Experts Session	
1:00 p.m. – 4:00 p.m.	<b>Group Activity (optional)</b>	
4:00 p.m. – 6:00 p.m.	<b>Scientific Session</b>  <b>Session 8:</b> <b>Challenges and opportunities in mitochondrial biology and medicine</b> <b>Chair: Eric Shoubridge (McGill)</b>	<b>Patrick Chinnery (Cambridge) - Mitochondrial DNA transmsion</b> <b>Zofia Chrzanowska-Lightowlers (Newcastle) - Mitochondrial translation</b> <b>Marcia Haigis (Harvard University) – Sirtuins as modulators of mitochondrial metabolism</b> <b>Vamsi Mootha (Harvard) - Mitochondrial Systems Biology</b>
6:00 p.m. – 7:00 p.m.	DINNER	
7:00 p.m. – 9:00 p.m.	Poster Session (optional)	

Friday, May 26, 2017

<b>Time a.m. – Time p.m.</b>	<b>Title/Topic Event</b>	
7:30 a.m. – 9:00 a.m.	BREAKFAST	
9:00 a.m.	Boxed Snacks to Go and DEPARTURES	

**END OF CONFERENCE**

For additional information contact:  
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