



FASEB

Federation of American Societies
for Experimental Biology

Science Research Conferences

www.faseb.org/src

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

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

Monday, May 22, 2017

Title/Topic Event	Time	
BREAKFAST	7:30 a.m. – 9:00 a.m.	
Conference Registration	7:30 a.m. – 12:00 p.m.	
Scientific Session	9:00 a.m. – 9:30 a.m.	Maria Falkenberg (Gothenburg) - <i>Replication of mtDNA</i>
Session 1: Mitochondrial gene expression	9:30 a.m.-10:00 a.m.	L. Stirling Churchman (Harvard) - <i>Coordination of nuclear and mitochondrial gene expression</i>
Chair: Antoni Barrientos (Miami)	10:00 a.m.-10:30 a.m.	Coffee Break

	10:30 a.m.-11:00 a.m. 11:00 a.m.-11:30 a.m. 11:30 a.m.-11:45 a.m. 11:45 a.m.-12:00 p.m.	Dmitry Temiakov (Rowan) - <i>Replication-transcription switch in mitochondria</i> Antoni Barrientos (Miami) - <i>Cooperation of RNA binding proteins to promote and coordinate mtDNA gene expression</i> Vera Strogolova (Marquette) - <i>Rcf1/Rcf2 play a role in the mitochondrial PMF maintenance</i> Erika Fernandez-Vizarra (Cambridge) <i>MR-1S interacts with PET100 and PET117 in module-based assembly of human cytochrome c oxidase</i>
LUNCH and Meet the Experts Session	12:00 p.m. – 1:00 p.m.	
Career Development Workshop	1:00 p.m. – 2:30 p.m.	Moderators: <i>Cristina Ugalde, Toni Barrientos, Estela Area-Gomez and Orian Shirihai</i>
Free time	2:30 p.m. – 4:00 p.m.	
Scientific Session Session 2: Respiratory chain complex assembly Chair: Heidi McBride (McGill)	4:00 p.m. – 4:30 p.m. 4:30 p.m. – 5:00 p.m. 5:00 p.m. – 5:30 p.m. 5:30 p.m. – 6:00 p.m.	Jose Antonio Enriquez (CNIC, Madrid) - <i>Mechanism of superassembly between complexes III and IV</i> Peter Rehling (Göttingen) - <i>Regulation of COX1 synthesis in mammalian cells</i> Cristina Ugalde, (Madrid) - <i>Dynamics and regulation of respiratory supercomplex assembly</i> Fabien Pierrel (Grenoble) – <i>Biosynthesis of coenzyme Q</i>
Conference Registration	6:00 p.m. – 7:00 p.m.	
DINNER	6:00 p.m. – 7:00 p.m.	
Poster Session	7:00 p.m. – 9:00 p.m.	Presenter Last Name (A-G)

Tuesday, May 23, 2017

<u>Title/Topic Event</u>	<u>Time</u>	
Breakfast	7:30 a.m. – 9:00 a.m.	
Conference Registration	7:30 a.m. – 12:00 p.m.	
Scientific Session Session 3: Mitochondrial protein biogenesis and quality control Chair: Peter Rehling (Göttingen)	9:00 a.m. – 9:30 a.m. 9:30 a.m.-10:00 a.m. 10:00 a.m.-10:30 a.m. 10:30 a.m.-11:00 a.m. 11:00 a.m.-11:30 a.m. 11:30 a.m.-11:45 a.m.	Heidi McBride (McGill) - <i>Mechanisms and meaning of mitochondrial derived vesicles</i> Leo Pallanck (U. Washington) - <i>Mechanisms of mitophagy</i> Coffee Break and Group Photo Koji Okamoto (Osaka) - <i>Upstream events regulating mitophagy.</i> Chris Meisinger (Freiburg) - <i>Posttranslational modifications modulate protein import</i> Takuya Shiota (Melbourne) <i>Molecular architecture, function and dynamics of the mitochondrial protein gateway, the TOM complex</i>

	11:45 a.m.-12:00 p.m.	Paul A. Cobine (Auburn) <i>Mitochondrial phosphate carrier is capable of transporting copper and is required for assembly of cytochrome c oxidase</i>
LUNCH and Meet the Experts Session	12:00 p.m. – 1:00 p.m.	
Free time	1:00 p.m. – 4:00 p.m.	
Scientific Session Session 4: Mitochondrial stress in cell signaling and aging Chair: Orian Shirihai (UCLA)	4:00 p.m. – 4:30 p.m. 4:30 p.m. – 5:00 p.m. 5:00 p.m. – 5:30 p.m. 5:30 p.m. – 6:00 p.m.	Liza Pon (Columbia) - <i>Filtering good from bad mitochondria during cell division: Implications for aging</i> Alicia Kowaltowski (São Paulo) – <i>Caloric restriction effects on mitochondrial function</i> Siegfried Hekimi (McGill) - <i>The impact of mitochondrial function of survival and death: from worms to patients</i> Agnieska Chacinska (Warsaw) - <i>Stress-signaling of defective mitochondrial protein import</i>
Conference Registration	6:00 p.m. – 7:00 p.m.	
DINNER	6:00 p.m. – 7:00 p.m.	
Poster Session	7:00 p.m. – 9:00 p.m.	Presenter Last Name (H-Z)

Wednesday, May 24, 2017

<u>Title/Topic Event</u>	<u>Time a.m. – Time p.m.</u>	
BREAKFAST	7:30 a.m. – 9:00 a.m.	
Conference Registration	7:30 a.m. – 12:00 p.m.	
Scientific Session Session 5: Mitochondrial dynamics in development and disease Chair: Jodi Nunnari (UC Davis)	9:00 a.m. – 9:30 a.m. 9:30 a.m.-10:00 a.m. 10:00 a.m.-10:30 a.m. 10:30 a.m.-11:00 a.m. 11:00 a.m.-11:30 a.m. 11:30 a.m.-11:45 a.m. 11:45 a.m.-12:00 p.m.	Elena Rugarli (Cologne) - <i>Post-transcriptional regulation of mitochondrial biogenesis</i> Orian Shirihai (UCLA) - <i>The impact of nutrients on mitochondrial turnover and biogenesis</i> Coffee Break Estela Area-Gomez (Columbia) - <i>ER-Mitochondrial interactions in aging and AD</i> Agnel Sfeir (NYU) - <i>The mechanistic basis of common deletion formation</i> Berrak Ugur (Baylor) <i>A Krebs cycle metabolite, alpha-ketoglutarate, promotes synaptic transmission via Synaptotagmin</i> Brendan J. Battersby (Helsinki) <i>Mitochondrial quality control of de novo mt-atp6 of the atp synthase is coupled to gene expression</i>
Business Meeting	12:00 p.m. – 12:30 p.m.	
LUNCH and Meet the Experts Session	12:30 p.m. – 1:30 p.m.	
Free time	1:30 p.m. – 4:00 p.m.	
Scientific Session	4:00 p.m. – 4:30 p.m.	Anu Suomalainen (Helsinki) - <i>Integrated stress response in mitochondrial disease</i>

Session 6: Mitochondrial driven mechanisms of mitochondrial dysfunction <i>Chair: Vamsi Mootha (Harvard)</i>	4:30 p.m. – 5:00 p.m.	Pere Puigserver (Harvard) - <i>Transcriptional Control of Mitochondrial Bioenergetics</i> Nils-Göran Larsson (Max Plank, Cologne) - <i>Regulation of mtDNA transcription in vivo</i> Tsutomu Suzuki (Tokyo) - <i>Molecular pathogenesis of mitochondrial disease caused by tRNA modification deficiency</i>
	5:00 p.m. – 5:30 p.m.	
	5:30 p.m. – 6:00 p.m.	
DINNER	6:00 p.m. – 7:00 p.m.	
Selected Poster Short Presentations	7:00 p.m. – 9:00 p.m.	Very Short presentations (10)

Thursday, May 25, 2017

<u>Title/Topic Event</u>	<u>Time a.m. – Time p.m.</u>	
BREAKFAST	7:30 a.m. – 9:00 a.m.	
Conference Registration	7:30 a.m. – 12:00 p.m.	
Scientific Session	9:00 a.m. – 9:30 a.m.	Dave Pagliarini (UW-Madison) – Transomic analyses of mitochondrial function and biogenesis
Session 7: New pathways, biomarkers and technologies to study mitochondrial function <i>Chair: Nils-Göran Larsson (Max Plank, Cologne)</i>	9:30 a.m.-10:00 a.m.	Michal Minczuk (Cambridge) - Manipulating mtDNA heteroplasmy with designer zinc-finger nuclease technology
	10:00 a.m.-10:30 a.m.	Coffee Break
	10:30 a.m.-11:00 a.m.	Shoukhrat Mitalipov (OHSU) - Germline and Somatic mtDNA Correction for Mitochondrial Disorders
	11:00 a.m.-11:15 a.m.	Rasha Sabouny (Calgary) <i>The Keap1-Nrf2 Stress Response Pathway is a Novel Modulator of Mitochondrial Dynamics</i> Hana Antonicka (McGill) <i>The mitochondrial interactome</i>
	11:15 a.m.-11:30 a.m.	
LUNCH and Meet the Experts Session	12:00 p.m. – 1:00 p.m.	
Group Activity	1:00 p.m. – 6:00 p.m.	Bus to MacArthur State Park (Beach) Leaves 1:30pm-Boards back at 5pm
DINNER	6:00 p.m. – 7:00 p.m.	
Scientific Session	7:00 p.m. – 7:30 p.m.	Patrick Chinnery (Cambridge) - Mitochondrial DNA transmission
Session 8: Challenges and opportunities in mitochondrial biology and medicine <i>Chair: Eric Shoubridge (McGill)</i>	7:30 p.m. – 8:00 p.m.	Zofia Chrzanowska-Lightowlers (Newcastle) - Mitochondrial translation
	8:00 p.m. – 8:30 p.m.	Hong Xu (NHLBI-NIH) – Selective inheritance of mitochondrial DNA
	8:30 p.m. – 9:00 p.m.	Vamsi Mootha (Harvard) - Mitochondrial Systems Biology
	9:00 p.m. - 9:15 p.m.	Alicia M. Pickrell (NINDS) <i>PINK1 and Parkin are Genetically Linked to Proteins Involved in the DNA Damage Response and Cell Cycle</i>

	9:15 p.m. - 9:30 p.m	Hans-Georg Sprenger (Cologne) <i>Loss of the i-AAA Protease YME1L leads to progressive axonal degeneration and locomotor impairment in mice</i>
--	----------------------	--

Friday, May 26, 2017

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

END OF CONFERENCE

For additional information contact:
 FASEB Science Research Conferences
 9650 Rockville Pike
 Bethesda, MD 20814
www.faseb.org/src