

Thursday (December 7 th) - Mitochondria Structure and Function	
8:00 - 9:00 am	Arrival and Check-in
8:30 - 9:00 am	Coffee and Pastries
Session 1:	
9:00 - 9:30 am	Opening Remarks
9:30 - 9:50 am	Karin Busch (University of Münster, Münster, Germany) "Controlling ATP synthase in mitochondria – more than a spatio-temporal task"
9:50 - 10:10 am	Andreas Reichert (University of Düsseldorf, Düsseldorf, Germany) "From cristae membrane structure and dynamics to metabolic implications"
10:10 - 10:30 am	José Antonio Enríquez Domínguez (CNIC, Madrid, Spain) "The devil is in the OxPhos details"
10:30 - 11:00 am	Coffee Break Meet the Speakers (West Coast Room): Karin Busch, Andreas Reichert, José Antonio Enríquez Domínguez
Session 2:	
11:00 - 11:15 am	Alexander van der Bliek (University of California, Los Angeles, CA, USA) "Control of NCLX-mediated mitochondrial calcium release by Mfn2"
11:15 - 11:35 am	Carla Koehler (University of California, Los Angeles, CA, USA) "Mitochondrial double stranded RNA is a new DAMP"
11:35 - 11:55 am	Rajarshi Chakrabarti (Thomas Jefferson University, Philadelphia, PA, USA) "Actin-mitochondria interactions"
12:00 - 1:00 pm	Lunch
Session 3:	
1:00 - 1:30 pm	Keep the Expert: Mitochondria in Heart Panelist: Dale Abel (UCLA); Interrogators: Rajat Singh (UCLA) & Tamer Sallam (UCLA)
1:30 - 2:00 pm	Keep the Expert: Mitochondria in Diabetes Panelist: Richard Kibbey (Yale); Interrogators: Marc Liesa-Roig (IBMB-CSIS), Matthew Merrins (University of Wisconsin), Orian Shirihai (UCLA)
2:00 - 2:30 pm	Kill the Expert: Assessing mtDNA Release Panelists: Gerald Shadel (Salk), Mark Hepokoski (UCSD), Fernanda Cerqueira (Mitochondria Emotion Inc.) Interrogator: Timothy Shutt (University of Calgary)
2:30 - 3:00 pm	Coffee Break Abberior Workshop #1: Imaging Mitochondria with the STED (West Coast Room) Meet the Speakers (West Coast Room): Carla Koehler, Richard Kibbey, Dale Abel, Rajarshi Chakrabarti
Session 4:	
3:00 - 3:20 pm	Catherine Clarke (University of California, Los Angeles, CA, USA) "Chaperones, Contact Sites, and Membrane Lipid Transport – a Nexus for Biosynthesis and Trafficking of Coenzyme Q"
3:20 - 3:40 pm	Erin L. Seifert (Thomas Jefferson University, Philadelphia, PA, USA) "Mitochondrial Pi Carrier and Ca ²⁺ handling"
3:40 - 3:55 pm	Charlene Smith-Geater (University of California, Irvine, CA, USA) "CryoET reveals mitochondrial phenotypes in Huntington's disease patient iPSC-derived and mouse primary neurons"
3:55 - 4:15 pm	György Csordás (Thomas Jefferson University, Philadelphia, PA, USA) "Mitochondrial plasticity in the cardiac muscle"
4:15 - 4:45 pm	Coffee Break & Light Reception Meet the Speakers (West Coast Room): Catherine Clarke, Erin L. Seifert, György Csordás
Session 5:	
4:45 - 5:10 pm	Keep the Expert: Mitochondria in Cancer Panelist: Nika Danial (Harvard); Interrogators: Orian Shirihai (UCLA), Martin Picard (Columbia University), Slavica Tudzarova-Trajkovska (UCLA)
5:10 - 5:40 pm	Keep the Expert: Mechanisms of Mitochondrial Quality Control Panelist: Hagai Abeliovich (Hebrew University); Interrogators: Alexander van der Bliek (UCLA), Thomas Langer (Max Planck Institute), Orian Shirihai (UCLA)
5:45 - 6:15 pm	Kill the Expert: Assessing Mitochondrial Fuel Utilization Panelists: Thomas G Graeber (UCLA), Ajit Divakaruni (UCLA), Tara TeSlaa (UCLA). Interrogators: Ambre Bertholet (UCLA) & Orian Shirihai (UCLA)
6:15 - 7:30 pm	Dinner
7:30 - 9:00 pm	Poster Session # 1 (Odd Numbers)
8:30 - 9:00 pm	Self - Networking

Friday (December 8 th) - Mitochondrial Metabolism and Pathophysiology	
7:00 - 8:00 am	Workout session with Tony Kurkowski (Equinox)
7:30 - 8:45 am	Coffee & Light Snacks
Session 6:	
8:50 - 9:15 am	Rajat Singh (University of California, Los Angeles, USA) "Nutrient regulation of mitochondrial dynamics "
9:15 - 9:35 am	Douglas Mashek (University of Minnesota, Minneapolis, MN, USA) "Lipid droplet and mitochondria intimacy"
9:35 - 9:50 am	Karthickeyan Chella Krishnan (University of Cincinnati, Cincinnati, OH, USA) "Hepatic lipid droplet associated mitochondria is bioenergetically active but compromised for fatty acid oxidation in nonalcoholic steatohepatitis"
10:00 - 10:30 am	Coffee Break Abberior Workshop #2: Imaging Mitochondria with the STED (West Coast Room) Meet the Speakers (West Coast Room): Douglas Mashek, Nika Danial, Hagai Abeliovich
Session 7:	
10:30 - 10:50 am	Deborah Muoio (Duke University, Durham, NC, USA) "Fueling Mitochondrial Efficiency: Pyruvate and Ketones Fan the Flames of Fat Oxidation"
10:50 - 11:05 am	Melissa Herrero (University of Washington, Seattle, WA, USA) "Extracellular Mitochondria in HFpEF"
11:05 - 11:25 am	Jakob Wikström (Karolinska Institute, Solna, Sweden) "Mitochondria in human skin wound healing"
11:25 - 11:40 am	Grigor Varuzhanyan (University of California, Los Angeles, CA, USA) "Mitochondrial bioenergetics as an emerging target for pan small cell neuroendocrine cancer"
11:40 - 12:40 am	Lunch
Session 8:	
12:40 - 1:10 pm	Bioenergetics Workshop: Measuring Respiration and ATP Hydrolysis in Frozen Samples Presenter: Lucía Fernández del Río (UCLA)
1:10 - 1:40 pm	Technique workshop: Calculation of ATP production rates using the Seahorse XF Analyzer Presenter: Ajit Divakaruni (UCLA)
1:40 - 2:10 pm	Microscopy workshop: Super-resolution of live mitochondria. Stimulated Emission Depletion Microscopy (STED) and analysis of cristae morphology and dynamics Presenter: Cristiane Benincá (UCLA)
2:10 - 2:20 pm	Find your round tables for discussion
2:20 - 3:10 pm	Round Table Discussion
3:10 - 3:40 pm	Coffee Break
Session 9:	
3:40 - 4:00 pm	Gerald Shadel (Salk Institute for Biological Studies, La Jolla, CA, USA) "Nucleic Acid-mediated Mitonuclear Signaling"
4:00 - 4:15 pm	Ana Valencia (University of Washington, Seattle, WA, USA) "A battle between immune cell mitochondria and weight loss"
4:15 - 4:30 pm	Valerio Carelli (University of Bologna, Bologna, Italy) "Histopathological and molecular characterization in ocular post-mortem analyses following AAV2 gene therapy for Leber hereditary optic neuropathy"
4:30 - 4:45 pm	Jonathan Brestoff (Washington University in St. Louis, MO, USA) "Mitochondria transfer-based therapy reduces the morbidity and mortality of Leigh Syndrome"
4:45 - 5:15 pm	Coffee Break & Light Reception Abberior Workshop #3: Imaging Mitochondria with the STED (West Coast Room) Meet the Speakers (West Coast Room): Deborah Muoio, Gerald Shadel, Jakob Wikström
Session 10:	
5:15 - 5:45 pm	Kill the Expert: Mitochondrial Motility Panelists: Gulcin Pekkurnaz (UCSD) & Henry N. Higgs (Dartmouth College); Interrogator: György Hajnóczky (Thomas Jefferson University), Orian Shirihai (UCLA)
5:45 - 6:15 pm	Keep the Expert: Mitochondria in Aging Panelist: Jonathan Wanagat (UCLA); Interrogators: Anthony Molina (UCSD) & Anu Suomalainen (University of Helsinki)
6:15 - 7:30 pm	Dinner
7:30 - 9:00 pm	Poster session # 2 (Even numbers)
8:30 - 9:30 pm	Self - Networking

Saturday (December 9 th) - Mitochondrial Dynamics, Quality Control and Aging			
7:00 - 8:00 am	Workout session with Tony Kurkowski (Equinox)		
7:30 - 8:45 am	Coffee & Light Snacks		
Session 11:			
8:50 - 9:10 am	Thomas Langer (Max Planck Institute, Gesellschaft, Germany) "Nucleotide imbalance and mitochondrial innate immune signaling"		
9:10 - 9:30 am	Gulcin Pekkurnaz (University of California, San Diego, CA, USA) "Energizing Neurons: Unfolding Metabolic Plasticity Mechanisms"		
9:30 - 9:50 am	Marco Tigano (Thomas Jefferson University, Philadelphia, PA, USA) "Mitochondrial control of cellular immunity"		
9:50 - 10:10 am	Carlo Viscomi (University of Padova, Padova, Italy) "Mitochondrial diseases: from mechanisms to therapy"		
10:10 - 10:25 am	Pablo Hernansanz-Agustín (CNIC, Madrid, Spain) "A Na ⁺ gradient controls $\Delta\psi$ through the Na ⁺ /H ⁺ antiporter activity of respiratory complex I and is impaired in LHON disease"		
10:25 - 10:55 am	Coffee Break Abberior Workshop #4: Imaging Mitochondria with the STED (West Coast Room) Meet the Speakers (West Coast Room): Thomas Langer, Gulcin Pekkurnaz, Marco Tigano		
Session 12:			
	Parallel Sessions		
11:00 - 11:55 am	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> 1. Recipes for what to do with my PhD Grand Horizon Ballroom Panelists: Amy Wang, Evan Taddeo, Karel Erion, Cristiane Benincá, Laurent Vergnes </td> <td style="width: 50%; vertical-align: top;"> 2. Mentoring Challenges & Solutions: Top 10 Practices of good mentoring West Coast Room </td> </tr> </table>	1. Recipes for what to do with my PhD Grand Horizon Ballroom Panelists: Amy Wang, Evan Taddeo, Karel Erion, Cristiane Benincá, Laurent Vergnes	2. Mentoring Challenges & Solutions: Top 10 Practices of good mentoring West Coast Room
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12:00 - 1:00 pm	Lunch		
Session 13:			
1:00 - 1:15 pm	Tatjana Kleele (ETH, Zurich, Switzerland) "Mitochondrial remodeling during cell state transitions"		
1:15 - 1:30 pm	Melissa Lubeck (Heinrich Heine University, Düsseldorf, Germany) "Role of the MICOS subunit MIC26 in the early development of insulin resistance"		
1:30 - 1:45 pm	Michaela Veliova (CNIC, Madrid, Spain) "Mitochondrial subpopulations in cardiomyocytes are shaped by their intracellular environment"		
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1:45 - 2:20 pm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> 1. MitoBiotech Opportunities Fair Grand Horizon Ballroom Presenters: MitochondriaWorld, LUCA Science Inc </td> <td style="width: 50%; vertical-align: top;"> 2. How to develop a mutually beneficial, long lasting relationship with Biotech/Industry West Coast Room </td> </tr> </table>	1. MitoBiotech Opportunities Fair Grand Horizon Ballroom Presenters: MitochondriaWorld, LUCA Science Inc	2. How to develop a mutually beneficial, long lasting relationship with Biotech/Industry West Coast Room
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2:20 - 2:50 pm	Coffee Break & Light Reception Abberior Workshop #5: Imaging Mitochondria with the STED (West Coast Room) Meet the Speakers (West Coast Room): Anu Suomalainen, Martin Picard, Carlo Viscomi		
Session 14:			
2:50 - 3:50 pm	Translational Mitochondrial Medicine Workshop: Bringing Mitochondria Therapeutics Towards FDA Approval Alfredo Sadun (UCLA, DOHENY Eye Institute), Valerio Carreli (University of Bologna), Anu Suomalainen (University of Helsinki), David Brown (Stealth BioTherapeutics), Stan Nelson (UCLA), Moderator: Amy Wang (Capacity Bio)		
3:50 - 4:05 pm	Ziwei She (Dartmouth College, Hanover, NH, USA) "Actin-dependent glycolytic activation downstream of mitochondrial damage: identification of the actin-activated glycolytic step"		
4:05 - 4:25 pm	Martin Picard (Columbia University, New York City, NY, USA) "Mouse and human brain mitochondrial diversity"		
4:25 - 4:45 pm	Anu Suomalainen (University of Helsinki, Helsinki, Finland) "Viruses, immunity and manifestation of mitochondrial brain disease"		
4:45 - 5:00 pm	Awards & Closing Remarks		