

15TH
CONGRESS

Targeting Mitochondria



Oct. 29 » 31 2024
Berlin © Germany



15th World Congress on Targeting Mitochondria

October 29-31, 2024 – Berlin, Germany

Tuesday, October 29, 2024

13h00 – Badges & Welcoming of Attendees

Mitochondria Workshop 2024: How to Evaluate Mitochondria Function?

14h00 - 17h30

Session 1: Methods for analyzing mitochondrial function: Bioenergetics

Session 2: Methods for analyzing mitochondria: Biogenesis, dynamics and mitophagy

Session 3: Biochemical strategies for the diagnosis of mitochondrial disorders

Presentation of Practical Cases & Interactive Discussion

One coffee break will be included between the workshop sessions.

End of the Workshop



Naïg Gueguen

Mitovasc Institute, Mitolab team,
INSERM 1083, CNRS 6215,
Centre Hospitalier Universitaire d'Angers
Angers, France

For full agenda, registration, and information, please follow this link

MITOCHONDRIA
WORKSHOP



15th World Congress on Targeting Mitochondria

October 29-31, 2024 – Berlin, Germany

– Day One –

Wednesday, October 30, 2024

8h00 – Materials Distribution & Welcome Coffee

8h50 – Welcome Note

Volkmar Weissig, *President of the World Mitochondria Society*

Keynote Speech Day 1



9h00 **Mitochondria in Alzheimer disease: it's not what you think**
Eric Schon, Columbia University, USA

Session 1 – Mitochondrial Dynamics in Health and Diseases: Mechanistic and Perspectives



9h30 **Cracking the Code of Aging: Exploring Mitochondrial Dynamics and Organelle Connections**
Antentor Hinton, Vanderbilt University, USA



10h00 **Dynamics of Mitochondrial Membrane and Genome Regulate Mitochondrial Activity**
Naotada Ishihara, Osaka University, Japan

10h30 - *Coffee Break, Networking & Poster Session*



11h10 **Mitochondrial Dynamics: Updates and Perspectives**
Ježek Petr, Institute of Physiology of the Czech Academy of Sciences, Czech Republic



11h40 **Mitochondria Iron Metabolism: Its Role in Pathogenesis of Diseases**
Sonia Levi, Vita-Salute San Raffaele University, Italy



12h10 **Blood-Based Marker: Mitochondrial DNA Damage in Parkinson's Disease**
Laurie Sanders, Duke University School of Medicine, USA



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12h40 – Lunch Break, Networking & Poster Session

Session 2 – Evaluation of Quality Control of Mitochondrial Function: Hands on Demonstrations



14h00 **Evaluation and Quality Control of Mitochondrial Function: An Update on Clinical Applications**
Egbert Mik, Erasmus MC, The Netherlands



14h15 **Mitochondria Function Evaluation: Workshop Highlights, Methods, Discrepancies, and Recommendations**
Naig Gueguen, CHU Angers, France



14h45 **Development of New Biosensors Dedicated to the Study of Mitochondrial Function and Mitophagy**
Giulia Bertolin, CNRS, Université de Rennes, France

15h15 - Coffee Break, Networking & Poster Session

Session 3 – Emerging Trends and Strategies in Mitochondria Research



16h00 **Mitochondrial Extracellular Vesicles: Orchestrating Brain Plasticity and Recovery**
Stefano Pluchino, University of Cambridge, United Kingdom



16h30 **Mitochondria Delivery via Extracellular Vesicles to the Blood-Brain Barrier**
Devika S Manickam, Duquesne University, USA

17h00 **Short Oral Presentations & Innovations (11 slots)**

18h45 **End of Targeting Mitochondria 2023 Day 1**

20h00 **Meet the Speakers Dinner (for ticket holders only)**



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– Day Two –

Thursday, October 31, 2024

8h25 – Registration & Welcoming of Attendees

Keynote Speech Day 2



8h30 **Mitochondria: More Heat than Light?**

Howy Jacobs, Tampere University, Finland

Session 3 – Emerging Trends and Strategies in Mitochondria Research (Continued)



9h00 **Mitochondria and Photomedicine: Advances in Infrared Light Treatment**

Maik Hüttemann, Wayne State University, USA



9h30 **Role of Light in Regulating Blood Glucose via Mitochondrial Stimulation**

Michael B. Powner, City University of London, United Kingdom

10h00 **Short Oral Presentations (3 slots)**

10h30 - Coffee Break, Networking & Poster Session



11h15 **Investigating Mitochondria as Age-Old Drivers of Inflammation**

Stephen Tait, University of Glasgow, United Kingdom



11h45 **The Role of Mitochondria in Zika Virus Propagation: Mechanisms of Immune Evasion and Inter-Cellular Transmission**

Indira Mysorekar, Baylor College of Medicine, USA

12h15 – Lunch Break, Networking & Poster Session



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Session 4 – Mitochondrial Medicine 2024: From Bench to Bedside



13h30 The Power and Potential of Mitochondria Transfer

Jonathan R. Brestoff, Washington University in St. Louis School of Medicine, USA



14h00 Mitochondrial Transplantation Mediates Improved Cellular Energy Metabolism, Restoration of Mitochondrial Function and Prevention of Cell Death

Mark Kindy, James A. Haley VA Hospital and University of South Florida, USA



14h30 Mitochondrial Dynamics in Health and Disease: Advances in Mood Disorders and Mitochondrial-Organ Transplantation

Ana Andreazza, University of Toronto, Canada



15h00 State of the Science Mitochondria-specific Targets, Therapeutics and Biomarkers Investigation following Traumatic Brain Injury in the US Military

Jignesh D. Pandya, Walter Reed Army Institute of Research, USA



15h30 Targeting Giant Mitochondria (Megamitochondria) in Human Liver Disease: Potential Diagnostic and Therapeutic Interventions

Elena Palma, King's College London, United Kingdom

16h00 - Coffee Break, Networking & Poster Session

16h30 Short Oral Presentations & Innovations (6 slots)

17h30 Targeting Mitochondria 2025: What's Next?

Volkmar Weissig, President of the World Mitochondria Society

Marvin Edeas, Founder of the World Mitochondria Society

17h30 Targeting Mitochondria 2024 Awards

End of World Mitochondria Society's Annual Meeting

For more information, please visit: www.wms-site.com.

