

4<sup>th</sup> World Congress on  
**Targeting Mitochondria**  
October 17-18, 2013- Hotel Ritz Carlton, Berlin – Germany

**Final Agenda**

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*Day 1 - October 17, 2013*

7h30 Opening of Registrations

9h00 Opening Ceremony by Targeting Mitochondria 2013 Chairmen: Marvin Edeas – Volkmar Weissig

9h10 General Introduction of Targeting Mitochondria 2013: Huge Steps to New Medicine  
*Douglas Wallace, Center of Mitochondrial and Epigenomic Medicine, Philadelphia, USA*

**Session 1: Recent Advances on Mitochondrial Dysfunctions in Chronic Diseases**

**Chairmen: Volkmar Wessig, Douglas Wallace, Marvin Edeas**

9h45 Structural Classification as a Platform for Predicting the Function of Mitochondrial Mutations  
*Rhiannon Lloyd, Institute of Biomedical and Biomolecular Sciences, University of Portsmouth, United Kingdom*

10h15 Targeting Small-Conductance Calcium-Activated Potassium (SK2) Mitochondrial Channels:  
A Promising Target for Neuroprotective Strategies  
*Carsten Culmsee, Philipps University of Marburg, Marburg, Germany*

10h45 Coffee Break, Posters Session & Exhibition Space Visit

11h15 Mitochondrial Dysfunction Modifies Stem Cell Function  
*Riikka Hamalainen, University of Helsinki, Helsinki, Finland*

**Session 2: Devices, Methods & Mitochondria: Innovations & New Opportunities**

**Chairmen: Rodrigue Rossignol, Douglas Wallace**

11h45 Nanofluidic Platform for Single Mitochondria Analysis using Fluorescence Microscopy  
*Douglas Wallace, Center of Mitochondrial and Epigenomic Medicine, Philadelphia, USA*

12h00 mTRIP, a Novel Imaging Tool to Diagnose *in situ* Mitochondrial DNA Processing Dysfunction  
*Laurent Chatre, Pasteur Institute, Paris, France*

12h30 Lunch Break, Posters Session & Exhibition Space Visit

14h00 A Yeast-based Assay to Identify Drugs Active against Human Mitochondrial Disorders  
*Jean-Paul di Rago, CNRS, Bordeaux, France*

14h30 Carbon Nanotubes for Mitochondrial Targeting: State of the Art & Strategies  
*Alessia Battigelli, CNRS, Strasbourg, France*

**Session 3: Strategies to Target Mitochondria:  
Recent Clinical Data and Potential Therapeutic Studies**

*- Part 1 -*

**Chairmen: Jiri Neuzil, Rifaat Safadi, Heinz Osiewacz**

**15h00 Mitochondria & Liver: State of the Art & Perspectives**

*Rifaat Safadi, Hadassah Hebrew University Hospital, Jerusalem, Israel*

**15h30 Coffee Break, Posters Session & Exhibition Space Visit**

**16h00 Liver, Oxidative Stress & Mitochondria: The Subtle Balance**

*José C. Fernandez-Checa, Spanish National Research Council, Barcelona, Spain*

**16h30 Damaged Mitochondrial DNA, a Novel Putative Target for Treatment of Diabetic Complications and other Diseases of Mitochondrial Dysfunction**

*Afshan Malik, King's College London, London, United Kingdom*

**16h40 The Measurement of Nitrotyrosine in Blood as an Early Predictive Parameter of Nitrosative Stress and Functional Mitochondriopathy**

*Clauss Muss, St. Elisabeth Universität für Forschung und Soziales, Bratislava, Slovakia*

**16h50 Cutaneous Respirometry in Healthy Volunteers: A Novel Technique for Monitoring Mitochondrial Function**

*Floor A. Harms, Erasmus MC, University Medical Center, Rotterdam, The Netherlands*

**17h00 Melanin Reduces Acute Mitochondrial Superoxide Generation: A Real-Time Amperometric Study**

*Sarah Jayne Boulton, Institute of Cellular Medicine, Newcastle, United Kingdom*

**17h10 The Mitosafe® Bioenergetic Balance Screening (BBS): An Innovative Method to Profile Modulators of the Mitochondrial Metabolic Functions**

*Emilie Cornille-Robert, ICDD, Predictive Toxicity Department, Meyreuil, France*

**17h20 Calcium co-Regulates Oxidative Metabolism and ATP-Synthase Dependent Respiration in Pancreatic Beta-Cells**

*Umberto De Marchi, Nestlé Institute of Health Sciences, Lausanne, Switzerland*

**17h30 Changed Mitochondrial Properties after Expression of *Ciona Intestinalis* Alternative Oxidase (Aox) in Mouse Heart**

*Frank N. Gellerich, Otto-Von-Guericke University, Magdeburg, Germany*

**17h40 Oxidative Stress alters Mitochondrial Dynamics at the Nodes of Ranvier in ex vivo transected Axons**

*Elena Bros, Institute For Medical Immunology, Charité-Universitätmedizin Berlin, Germany*

**17h50 Stomatin-Like Protein-2 Modulates Cell Function by Regulating Mitochondrial Membrane Compartmentalization and Respiration**

*Joaquín Madrenas, Microbiome and Disease Tolerance Centre, McGill University, Montreal, Canada*

**18h00 Characterization of Proteins involved in RNA Trafficking into Human Mitochondria**

*Ali Gowher, University of Strasbourg - CNRS, Strasbourg, France*

**18h10 End of the First Day**

**19h45 Targeting Mitochondria 2013 Dinner**

*The Dinner will be held at Ritz Carlton Hotel. If you wish to register, please contact the conference staff.*

*Day 2 - October 18, 2013*

**Session 3: Strategies to Target Mitochondria:  
Recent Clinical Data and Potential Therapeutic Studies**

*- Part 2 -*

**Chairmen: Carsten Culmsee, Keshav Singh, Marvin Edeas, Volkmar Weissig**

**9h00 Role of Mitochondrial Quality Control in Aging: An Integrated Network of Pathways**  
*Heinz Osiewacz, Johann Wolfgang Goethe University, Frankfurt, Germany*

**9h30 Targeting Muscle Mitochondria with Vitamin D: Strategies and Perspectives**  
*Timothy Cheatham, University of Newcastle, Newcastle, United Kingdom*

**10h00 Cancer & Mitochondria: Therapeutics Strategies**  
*Jiri Neuzil, Griffith Health Institute, Southport, Australia*

**10h30 Coffee Break, Posters Session & Exhibition Space Visit**

**11h00 Mitochondrial Uncoupling Proteins and its Role in Cancer**  
*Keshav Singh, University of Alabama, Birmingham, USA*

**11h30 Mitochondria-Targeting Strategies in Cancer Bioenergetic Therapies: Recent Advances & Perspectives**  
*Rodrigue Rossignol, University of Bordeaux, Bordeaux, France*

**12h00 Effects of Oral Supplementation with Sanomit<sup>®</sup> on Tinnitus-Induced Distress: Double Blind, Randomized, Placebo-Controlled Study**  
*Agnieszka J. Szczepek, Charité – Universitätsmedizin, Berlin, Germany*

**12h30 New Antioxidant Product on Market to Target Mitochondria: Presentations and Results**  
*Vladimir Skulachev, Moscow University, Moscow, Russia*

**12h45 Lunch Break, Posters Session & Exhibition Space Visit**

**14h00 Impact of Antioxidants on Mitochondria in Primary Cells and in Cancer-derived Cell Lines**  
*Miria Ricchetti, Pasteur Institute, Paris, France*

**14h30 Mitochondria-Specific Genistein Lipidic Nanocarriers**  
*Tamer Elbayoumi, Midwestern University, College, Glendale, USA*

**14h40 HB229: A Novel Parkin-Independent Inducer of Mitophagy**  
*Michelangelo Campanella, RVC and UCL Consortium for Mitochondrial Research, London, United Kingdom*

**14h50 Low Abundance of the Matrix Arm of Complex I in the Mitochondria Predicts Longevity**  
*Thomas Von Zglinicki, Institute for Ageing and Health, Newcastle University, Newcastle, United Kingdom*

**15h00 Targeting Mitochondria of Cancer Cells With Dichloroacetate: The Case of Oral Squamous Cell Carcinoma**  
*Vitalba Ruggieri, I.R.C.C.S. Centro Di Riferimento Oncologico Della Basilicata, Rionero In Vulture, Italy*

**15h10 Selective Mitochondrial Targeting for Anxiolytic Treatment**  
*Michaela Filiou, Max Planck Institute of Psychiatry, Munich, Germany*

**15h20 An Immunomodulating Fatty Acid Analogue Targeting Mitochondria Exerts Anti-Atherosclerotic Effect beyond Plasma Cholesterol-Lowering Activity in apoe<sup>-/-</sup>Mice**  
*Rolf Berge, Department of Clinical Science, University of Bergen, Bergen, Norway*

**15h30 Bornavirus X Protein: A New Tool against Neurodegenerative Disorders?**  
*Marion Szelechowski, INSERM, CHU Purpan, Toulouse, France*

**15h40 Targeting Mitochondria 2013 Discussion**  
*The scientific committee will discuss the axes of the next upcoming Targeting Mitochondria World Congress 2014. One of the strategic axes will be **Modulation Diversity & Variety of Microbiota by Mitochondria.***

**Conclusion of Targeting Mitochondria 2013**

**Targeting Mitochondria Awards**

**16h10 All together around Drink & Snacks**

**16h30 End of Targeting Mitochondria 2013**