4th World Congress on
Targeting Mitochondria

Strategies, Innovations & Clinical Applications

Targeting Liver, Brain & Muscle Mitochondria:
Opportunities and Challenges

Scientific Program

October 17-18, 2013
Ritz Carlton, Berlin - Germany

www.targeting-mitochondria.com
Dear Colleagues,

After the success of the third editions, the Scientific Committee of the International Society of Antioxidants in Nutrition and Health (ISANH) decided to organize the 4th World Congress on Targeting Mitochondria which will be held in Berlin in October 17-18, 2013.

Mitochondrial dysfunction has been associated with the aging process and a variety of human disorders, such as cardiovascular and neurodegenerative diseases, cancer, migraine, infertility, kidney and liver diseases, toxicity of HIV drugs... It is well recognized that the (patho)physiological role of mitochondria widely exceeds that of solely being the biochemical power plant of our cells.

Over recent years, mitochondria have become an interesting target for drug therapy, and the research field aimed at “Targeting Mitochondria” is active and expanding as witnessed by the third edition of the world congress on this topic. It is becoming a necessity and an urge to know why and how to target mitochondria with bioactive molecules and drugs in order to treat and prevent these pathologies and chronic diseases.

This 4th World Congress on Targeting Mitochondria will cover a variety of new strategies and innovations as well as clinical applications in Mitochondrial Medicine. Just as for the previous editions of “Targeting Mitochondria”, the scientific committee has again succeeded in inviting an outstanding panel of speakers; each one of which a leader in their particular field.

Special Session Dedicated to Targeting Liver, Brain and Muscle Mitochondria

The Scientific Committee of Targeting Mitochondria 2013 has selected to highlight Liver, Brain and Muscle Mitochondria. We need to talk about the central and strategic role of mitochondria in all liver, brain and muscle diseases related to inflammation and oxidative stress. We will discuss how to protect muscle, brain and liver mitochondria and avoid their dysfunction. We will attract all scientific and industrial teams to present their strategies and innovations.
During Targeting Mitochondria 2013, the scientific committee will discuss how oxidative stress can modulate microbiota diversity and quality, and the relation with chronic inflammatory diseases or general inflammation. One of the strategic targets will be to modulate microbiota redox state and control signaling pathways by increasing antioxidant defense system. Obesity will be one the microbiota target by modulating oxidative stress & microbiota.

Targeting Mitochondria 2013 sessions:

- Mitochondrial dysfunctions in chronic diseases: recent advances and conclusions
- Devices, Methods & Mitochondria: Innovations & New Opportunities
- Targeting Liver, Muscle and Muscle Mitochondria : Opportunities and Challenges
- Microbiota, Intestinal Redox Biology & Mitochondria
- Strategies to target mitochondria : Recent Clinical data and potential Therapeutic Studies

Round Table Discussion: How Mitochondria can act on Redox Signaling Pathways to Restore or Reset it?

With this exciting program, we look forward to welcoming you in Berlin for this particular event.

Pr Marvin Edeas - Pr Volkmar Weissig
Chairmen of the Scientific Committee
4th World Congress on
Targeting Mitochondria
Strategies, Innovations & Clinical Applications
Targeting Liver, Brain & Muscle Mitochondria: Opportunities and Challenges
October 17-18, 2013- Hotel Ritz Carlton, Berlin – Germany

Scientific Program

Day 1 - October 17, 2013

7h30 Opening of Registrations
9h00 Opening Ceremony by Marvin Edeas and Volkmar Weissig
9h10 General Introduction of Targeting Mitochondria 2013: Mitochondria: Huge Steps to New Medicine
Douglas Wallace, Center of Mitochondrial and Epigenomic Medicine, Philadelphia, USA

Session 1: Mitochondrial Dysfunctions in Chronic Diseases:
Recent Advances and Conclusions
9h40 – 12h30

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

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

Mitochondria & Ageing Challenges
Mitochondria Quality Control: An Integrated Network of Pathways.
Heinz Osiewacz, Johann Wolfgang Goethe University, Frankfurt, Germany

12h30 Lunch Break, Posters Session
& Exhibition Space Visit

Session 2: Devices, Methods & Mitochondria:
Innovations & New Opportunities
14h00 – 17h30

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

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

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

Carbon Nanotubes for Mitochondrial Targeting
Alessia Battigelli, CNRS, Strasbourg, France
15h30 Lunch Break, Posters Session
& Exhibition Space Visit

Session 3: Microbiota, Intestinal Redox Biology & Mitochondria: A Promising Target

16h00 Mitochondria, Oxidative Stress & Impact on Microbiota Quality & Diversity: Recent Advances & Perspectives
(speaker tbc)

16h30 Microbiota, Chronic Inflammatory Diseases & Obesity: Where is the Target?
(speaker tbc)

17h00 Short Oral Presentations for Sessions 1 & 2

18h00 End of the First Day

19h30 Dinner between Speakers & Attendees

Day 2 - October 18, 2013

Session 3: Strategies to Target Mitochondria: Recent Clinical Data and Potential Therapeutic Studies
Focus on Targeting Liver, Brain and Muscle Mitochondria
9h00 – 17h00

Cancer & Mitochondria: Therapeutics Strategies
Classification of mitocans, anti-cancer drugs acting on mitochondria
Jiri Neuzil, Griffith Health Institute, Southport, Australia

Liver, Oxidative Stress & Mitochondria: The Subtle Balance
José C. Fernandez-Checa, Spanish National Research Council, Barcelona, Spain

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

10h30 Coffee Break, Posters Session
& Exhibition Space Visit

Targeting Mitochondrial Stem Cells: Opportunities & Challenges to Treat and Prevent Chronic Diseases
Riikka Hamalainen, University of Helsinki, Helsinki, Finland

Mitochondria-Targeted Nanoparticles for Atherosclerosis and Cancer
Shanta Dhar, University of Georgia, Athens, USA

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

12h30 Lunch Break, Posters Session
& Exhibition Space Visit
Impact of Antioxidants on Mitochondria in Primary Cells and in Cancer-derived Cell Lines
*Miria Ricchetti, Pasteur Institute, Paris, France*

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

14h45 Short Oral Presentations for Session 3

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

16h00 Coffee Break, Posters Session
& Exhibition Space Visit

16h30 General Discussion & Conclusion of Targeting Mitochondria 2013

17h15 Targeting Mitochondria Awards

17h30 End of Targeting Mitochondria 2013

[Image]

[www.targeting-mitochondria.com]
Targeting Mitochondria 2013
Registration Form - October 17-18, 2013 – Berlin, Germany

Registration Form to return by Mail, Fax or Email:
Targeting Mitochondria Conference / ISANH - 15 Rue de la Paix - 75002 Paris
Tel: +33 1 55 04 77 55 – Fax: +33 9 72 16 84 14 – mitochondria@targeting-mitochondria.com

☐ I would like to register to Targeting Mitochondria 2013 on October 17-18, 2013. (Please tick your category)

<table>
<thead>
<tr>
<th>Category</th>
<th>From May 1 to July 17</th>
<th>From July 18</th>
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<tbody>
<tr>
<td>Academics</td>
<td>□ 495€</td>
<td>□ 595€</td>
</tr>
<tr>
<td>Industrials</td>
<td>□ 895€</td>
<td>□ 995€</td>
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Registration includes conference entrance, two lunches and one abstracts book.

☐ I would like to subscribe to ISANH (Subscription available one year since reception of payment) 145€

☐ I cannot attend the conference and I would like to order Supplementary Abstracts Book (Unitary Price) 150€

☐ I would like to attend the Thursday's Dinner on October 17 80€

☐ I would like to support the conference Contact us

☐ Ms ☐ Mrs ☐ Mr ☐ Dr ☐ Pr

Last name: ........................................................................................................................................

First name: ........................................................................................................................................

Society/Faculty: ................................................................................................................................

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Takayama is authorized to handle all the conference logistics and payments.

1. Registration fees include 2 lunches, 4 coffee/tea breaks and the abstract book of the conference.
2. This Sales Contract constitutes a legally binding contract.
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Refund Policy - Cancellation

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