Symposium 1 | Mitochondrial Biology in Health and Disease/MitoPORTO2019

Organizers: Paulo J. Oliveira (Coimbra, Portugal)
Jorge Oliveira (Porto, Portugal)
Carlos Palmeira (Coimbra, Portugal)
Mariusz Wieckowski (Warsaw, Poland)

Day: Wednesday 22 afternoon, Thursday 23 all day and Friday 24 morning
Meeting room: Meeting Room Julieta, Hotel Vila Galé (Congress venue 1)

Wednesday, 22 May

14.00-16.00 Session 1: FOIE-GRAS: Translational Focus on NAFLD & Mitochondria (I)
Chairs: Paulo Oliveira (Coimbra, Portugal) and Carlos Palmeira (Coimbra, Portugal)

14:00-14:30 Non-alcoholic fatty liver disease - from the bedside to the bench
Piero Portincasa (Bari, Italy)

14:30-15:00 Role of mitochondria in de novo lipogenesis and fatty liver disease
John Jones (Coimbra, Portugal)

15:00-15:30 Alterations in the mitochondrial function and proteome in Non-Alcoholic Fatty Liver Disease
Mariusz Wieckowski (Warsaw, Poland)

15:30-16:00 Developmental programming of NAFLD by maternal obesity in non-human primates and rodents
Peter Nathanielsz (Laramie, WY, USA)

16:00-16:30 Coffee-break

16.30-18.00 Session 2: FOIE-GRAS: Translational Focus on NAFLD & Mitochondria (II)
Chairs: Piero Portincasa (Bari, Italy) and Mariusz Wieckowski (Warsaw, Poland)

16:30-17:00 Mitochondrial ALDH2 modulation in fatty liver preservation
Joan Rosselo-Catafau (Barcelona, Spain)

17:00-17:15 Speaker selected from submitted abstracts

17:15-17:45 Hydrogen sulfide and mitochondrial function in Non-Alcoholic Fatty Liver Disease
Carina Prip-Buus (Paris, France)

17:45-18:00 Speaker selected from submitted abstracts

18.00 - 19.00 Opening Ceremony
19.00 - 20.00 Opening lecture by a Key-note speaker
20.00 - 21.00 Welcome drink
20.30 - 21.30 Champions League in Biomedicine and Experimental Biology
Thursday, 23 May

08.30-10.00  **Session 3: Mitochondria in Pathophysiology I**  
Chairs: Fabio Di Lisa (Padova, Italy) and Werner Koopman (Nijmegen, The Netherlands)

08.30-09.00  The involvement of diabetes induced damage to mitochondrial DNA in diabetic complications  
Afshan Malik (London, UK)

09.00-09.15  Speaker selected from submitted abstracts

09.15-09.45  Modulation of complex I and promotion of mitochondrial homeostasis  
Carlos Palmeira (Coimbra, Portugal)

09.45-10.00  Speaker selected from submitted abstracts

10.00-10.30  Coffee-break

10.30-12.30  **Session 4: Mitochondria in Pathophysiology II**  
Chairs: Afshan Malik (London, UK) and John Jones (Coimbra, Portugal)

10.30-11.00  Functional respiration protects quiescent cells from oxidative stress  
Jakub Rohlena (Prague, Czech Republic)

11.00-11.15  Speaker selected from submitted abstracts

11.15-11.30  Speaker selected from submitted abstracts

11.30-12.00  Mitochondrial dynamics modulates phospholipid metabolism  
Antonio Zorzano (Barcelona, Spain)

12.00-12.15  Speaker selected from submitted abstracts

12.15-12.30  Speaker selected from submitted abstracts

12.30-14.00  Poster session 1 and lunch

14.00-16.00  **Session 5: MitoPORTO 2019 – Advances in Mitochondrial Research I**  
Chairs: Jorge Oliveira (Porto, Portugal) and Michael Murphy (Cambridge, UK)

14.00-14.30  Mitochondrial dysfunction, what is it and how do we measure it?  
David Nicholls (Novato, USA & Lund, Sweden)

14.30-14.45  Speaker selected from submitted abstracts

14.45-15.15  Targeting mitochondria in Huntington’s disease  
Jorge Oliveira (Porto, Portugal)

15.15-15.30  Speaker selected from submitted abstracts

15.30-16.00  Exploring metabolism to induce a paused state in pluripotent cells  
Ana Sofia Rodrigues (Coimbra, Portugal)

16.00-16.30  Coffee-break
**16.30-18.00**  
**Session 6 : MitoPORTO 2019 – Advances in Mitochondrial Research II**  
Chairs: Joan Rosselo-Catafau (Barcelona, Spain) and David Nicholls (Novato, USA & Lund, Sweden)

- 16:30-16:45  
  Speaker selected from submitted abstracts
- 16:45-17:00  
  Speaker selected from submitted abstracts
- 17:00-17:15  
  Speaker selected from submitted abstracts
- 17:15-17:30  
  Speaker selected from submitted abstracts
- 17:30-17:45  
  Speaker selected from submitted abstracts
- 17:45-18:00  
  Speaker selected from submitted abstracts

**18.00-19.30**  
Poster session 2

**20.30**  
Congress dinner

**Friday, 24 May**

**08.30-10.00**  
**Session 7 : MitoPORTO 2019 – Advances in Mitochondrial Research III**  
Chairs: Antonio Zorzano (Barcelona, Spain) and Hans Zischka (Munich, Germany)

- 08:30-09:00  
  **Mitochondrial metabolites in health and disease**  
  Michael Murphy (Cambridge, UK)
- 09:00-09:15  
  Speaker selected from submitted abstracts
- 09:15-09:45  
  **Mitochondrial involvement in cardiac injury and protection**  
  Fabio Di Lisa (Padova, Italy)
- 09:45-10:00  
  Speaker selected from submitted abstracts
- 10:00-10:30  
  Coffee-break

**10.30-12.30**  
**Session 8 : Mitochondria in Pathophysiology III**  
Chairs: Jakub Rohlena (Prague, Czech Republic) and Carina Prip-Bus (Paris, France)

- 10:30-11:00  
  **Exogenous NAD+ prevents galactose-induced death of Leigh Syndrome patient fibroblasts with isolated complex I deficiency**  
  Werner Koopman (Nijmegen, the Netherlands)
- 11:00-11:30  
  **Disruption of mitochondrial metabolism and circadian genes by anthracyclines**  
  Paulo Oliveira (Coimbra, Portugal)
- 11:30-11:45  
  Speaker selected from submitted abstracts
- 11:45-12:15  
  **Targeting liver cancer mitochondria**  
  Hans Zischka (Munich, Germany)
- 12:15-12:30  
  Speaker selected from submitted abstracts
- 12:30-14:00  
  Poster session 3 and lunch
- 14:00-16.40  
  Multi-focus Plenary & ESCI Awards Session
- 16.45-17.30  
  Closing Ceremony