



Organizers:  
Paulo J Oliveira  
(Coimbra, Portugal)  
Catarina R Oliveira  
(Coimbra, Portugal)



Coimbra, Portugal, 22-24 May 2019



## 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 )

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### 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 in rodents and primates**  
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



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## 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



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### **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 )

#### **16:30-17:00 Joining the Dots: Epigenetics, Metabolism and the Circadian Clock**

Paolo Sassone Corsi ( University of California-Irvine, USA )

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<sup>+</sup> 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