**WORKSHOP**

**“REDOX BIOLOGY IN HEALTH AND DISEASE”**

**Barcelona, June 27th-28th, 2024**

**Organizers: Victoria Campuzano, Gustavo Egea, Isabel Fabregat**

**FREE REGISTRATION! Limited number of attendees: 100.**

**Full program and registration available in:**

[**https://tgfbeta-redox.cat/workshop**](https://tgfbeta-redox.cat/workshop)

**Thrusday 27th**

08:30 – 09:00  **Registration**

09:00 – 09:30 **Welcome**

09:30 – 11:00 **SESSION 1: ROLE OF MITOCHONDRIA IN THE REGULATION OF REDOX BIOLOGY-I.** Chaired by: **Joaquim Ros**, Universitat de Lleida, Lleida, Spain.

* **Antonio Enríquez**, Spanish National Center for Cardiovascular Research (CNIC) and CIBERFES, Madrid, Spain.“*Redox communication through mitochondria*”.
* **Antonio Zorzano,** University of Barcelona and Institute for Research in Biomedicine and CIBEREDEM, Barcelona, Spain. “*Mitochondrial fusion proteins and their role in cell homeostasis*”.
* **Jose-Carlos Fernández-Checa**, IDIBAPS, Barcelona Clinic Hospital and CIBEREHD, Barcelona, Spain.*”Mitochondrial cholesterol trafficking in metabolic-associated steatohepatitis and liver cancer”.*

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **SESSION 2: ROLE OF MITOCHONDRIA IN THE REGULATION OF REDOX BIOLOGY-II.** Chaired by: **Elena Hidalgo**, Universitat Pompeu Fabra, Barcelona, Spain.

* **M. Isabel Hernández-Álvarez**, University of Barcelona, Barcelona, Spain. "*Mitochondrial fusion proteins and organelle connections in metabolism*".
* **Joaquim Ros**, University of Lleida, Lleida, Spain **“***Alterations of mitochondrial function in Friedreich's Ataxia*”.

12:30 – 13:30 **OPENING KEYNOTE LECTURE**. Chaired by: **Gustavo Egea**, Universitat de Barcelona, Barcelona, Spain.

**Victor Thannickal.** Tulane University School of Medicine, New Orleans, USA). *“From Oxygen to Redox Biology and Organ Regeneration”.*

13:30 – 15:00 **Lunch**

## 15:00 – 16:30 SESSION 3: [Redox Biology in Neurological (DYS)Function, and Aging](https://www.bing.com/ck/a?!&&p=580753c2c8792b45JmltdHM9MTcwMjUxMjAwMCZpZ3VpZD0yZTY2ZWY3Yy01YzY2LTY1ZDMtMmYxMy1mY2I0NWRjODY0MjkmaW5zaWQ9NTIxMA&ptn=3&ver=2&hsh=3&fclid=2e66ef7c-5c66-65d3-2f13-fcb45dc86429&psq=redox+biology+and+neruological+diseases&u=a1aHR0cHM6Ly93d3cubmNiaS5ubG0ubmloLmdvdi9wbWMvYXJ0aWNsZXMvUE1DNTk2MjMyNy8&ntb=1). Chaired by: Teresa Carbonell, Universitat de Barcelona, Barcelona, Spain.

* **Gemma Marfany,** University of Barcelona and CIBERER, Barcelona, Spain. “*Bringing light to darkness: CERKL, a retinal resilience gene against oxidative stress*".
* **Juan Pedro Bolaños**, University of Salamanca and CIBERFES, Salamanca, Spain. “*Astrocyte metabolism: energy or signaling?*”.
* **Juan Sastre**. University of Valencia, Valencia, Spain. President of the SFRR-Europe. "*Redox regulation of necroptosis in acute inflammation*".

**Friday 28th**

09:30 – 11:00 **SESSION 4:** [**redox**](https://www.bing.com/ck/a?!&&p=580753c2c8792b45JmltdHM9MTcwMjUxMjAwMCZpZ3VpZD0yZTY2ZWY3Yy01YzY2LTY1ZDMtMmYxMy1mY2I0NWRjODY0MjkmaW5zaWQ9NTIxMA&ptn=3&ver=2&hsh=3&fclid=2e66ef7c-5c66-65d3-2f13-fcb45dc86429&psq=redox+biology+and+neruological+diseases&u=a1aHR0cHM6Ly93d3cubmNiaS5ubG0ubmloLmdvdi9wbWMvYXJ0aWNsZXMvUE1DNTk2MjMyNy8&ntb=1) **signalling in cardiovascular pathologies**. Chaired by: **Victoria Campuzano**, Universitat de Barcelona, Barcelona, Spain.

* **Susana Cadenas**, Center of Molecular Biology Severo Ochoa – CBMSO (CSIC/UAM), Madrid, Spain. “*Redox signaling and cardioprotection in ischemia-reperfusion injury*”
* **Vivian de Waard**, Amsterdam University Medical Center (AUMC), University of Amsterdam, Amsterdam, The Netherlands: “*Resveratrol as antioxidant therapy in aortic disease in Marfan syndrome*”.
* **María Galán**, University Rey Juan Carlos (URJC), Madrid, Spain. *"Targeting mitochondrial stress to limit aortic dilation in murine models of aneurysm".*

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **SESSION 5: NEW INSIGTHS ABOUT nadph oxidases as THERAPEUTIC TARGETS IN HUMAN DISEASES.** Chaired by: **Juan Sastre**. University of Valencia, Valencia, Spain. President of the SFRR-Europe.

# **Susan M.E. Smith**, Kennesaw State University, Kennesaw, Georgia, USA. “*Comparison of NOX structures suggests potential new druggable site(s)*”.

* **Miklós Geiszt**, Semmelweis University, Medical School, Budapest, Hungary. "*Lessons from the rabbit model of NOX5 deficiency*".

12:30 – 13:30 **CLOSING KEYNOTE LECTURE**. Chaired by: **Isabel Fabregat**, IDIBELL and CIBEREHD, Barcelona, Spain.

**Ulla Knaus**, School of Medicine, University College Dublin, Dublin, Ireland. *NADPH oxidase: culprit and protector in the intestine*”.

13:30 – 14:00 **CONCLUDING REMARKS**.