

# Advances in Redox Biology and Medicine: From Basic Mechanisms to Clinical Implications

The 34th Annual Meeting of the Israel Society for Oxygen and Free Radical Research

February 17-18, 2021 - Online Symposium

Organizing Committee: Moran Benhar, Richard Siow, Anat Elmann, Dov Lichtenberg, Ilya Pinchuk

ISOFR R



## PROGRAM

*Note: Israel times listed are GMT +2 / CET +1*

### Day 1 - February 17

#### **9:30-9:35 Welcome words and opening of the meeting**

Moran Benhar (Technion, Israel), President ISOFR R

#### **Early Bird Session**

Chairperson: Anat Elmann (Volcani Center, Israel)

9:35-10:10 **Keynote lecture: Hermona Soreq – The Hebrew University of Jerusalem, Israel**

**Transfer RNA fragments as emergency controllers of body-brain signaling**

10:10-10:30 **Maayan Waldman – Rabin Medical Center, Tel Aviv University, Israel**

**The role of PGC1 $\alpha$  -HO1 axis in obesity and diabetic heart**

10:30-11:00 *Break*

#### **Joint ISOFR R-SFRR-E Session – Redox regulation in cellular homeostasis and stress responses**

Chairperson: Richard Siow (King's College London, UK)

11:00-11:25 **Michal Sharon – Weizmann Institute of Science, Israel**

**Regulation of protein degradation by a novel family of inhibitory proteins**

11:25-11:50 **Michael Glickman – Technion, Israel**

**Autophagy and ubiquitin-proteasome systems converge to eliminate oxidation-damaged mitochondria**

11:50-12:10 *Break*

12:10-12:35 **Elias Arnér – Karolinska Institute, Stockholm, Sweden**

**Recently discovered functions of TRP14 (TXNDC17) in redox control of cellular functions**

12:35-12:50 **Milos Filipovic – Leibniz Institute for Analytical Sciences, Germany**

**The role of protein persulfidation in aging: protection and/or signaling**

12:50-13:00 **Closing remarks – Chair**

## **Day 2 - February 18**

### **Early Bird Session**

Chairperson: Yoav Sharoni (Ben-Gurion University, Israel)

9:30-10:05 **Keynote lecture: Michael Aviram – Technion, Israel**

**Mechanism of action of pomegranate polyphenols against atherosclerosis development**

10:05-10:30 **Dov Lichtenberg – Tel Aviv University, Israel**

**Does the oxidative stress depend on sex and age?**

10:30-11:00 *Break*

### **Joint ISOFRR-SFRR-E Session – Oxidant signaling in physiology and pathophysiology**

Chairperson: Einav Gross (Hebrew University of Jerusalem, Israel)

11:00-11:25 **Deborah Fass – Weizmann Institute of Science, Israel**

**Gut reaction: Disulfide bonding builds a healthy colon**

11:25-11:50 **Marcus Conrad – Helmholtz Zentrum München, Germany**

**Ferroptosis modulation for the treatment of as-yet-incurable diseases?**

11:50-12:10 *Break*

12:10-12:35 **Clare Hawkins – University of Copenhagen, Denmark**

**A new approach to modulate inflammatory damage in atherosclerosis**

12:35-13:00 **Haitham Amal – Hebrew University of Jerusalem, Israel**

**S-nitrosylation: from systems biology to cell signaling and drug targets of autism spectrum disorder**

13:00-13:20 **Gabriela Warpsinski – King's College, London, UK**

**Importance of oxygen for modelling ischemic stroke in vitro: implications for redox signaling in the brain microvasculature**

13:20-13:30 **Closing remarks – Chair**