

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 α -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**