

Advances in Redox Biology and Medicine

The 32nd Annual Meeting of the Israel Society for Oxygen and Free Radical Research

Monday, February 26, 2018 - Faculty of Medicine, Tel Aviv University

Organizing Committee: Moran Benhar, Anat Elmann, Ronit Lavi, Dov Lichtenberg, Ilya Pinchuk

PROGRAM



08:30-09:00 Gathering and Registration

09:00-09:10 Greetings

Session I – Oxidative stress and neurodegeneration

Chairperson: Anat Elmann (Volcani Center)

9:10-09:35 **Ruth Gabizon**

Hebrew University of Jerusalem

The role of oxidative stress and antioxidants in neurodegenerative diseases

09:35-10:00 **Daniel Offen**

Tel Aviv University

Nrf2 pathway as a therapeutic target in neurodegenerative diseases

10:00-10:25 **Daphne Atlas**

The Hebrew University of Jerusalem

Amides as anti neurodegenerative agents : from L-Dopa-amide, NAC-amide to thioredoxin mimetics

10:25-10:50 *Coffee break*

10:50-11:15 **Dan Frenkel**

Tel Aviv University

Glia cells and oxidative stress: when friends become foes

11:15-11:30 **Nikoletta Papaevgeniou**

National Hellenic Research Foundation, Athens, Greece, and German Institute of Human Nutrition

Lipofuscin-mediated alterations on organismal ageing process

11:30-11:45 **Nathaniel Gould**

Haifa University

Quinone Reductase 2: Reducing Memory or Forgetting?

11:45-12:00 **Ronit Shapira**

Tel Aviv University

Hyperbaric oxygen therapy ameliorates the pathophysiology of Alzheimer's disease mouse models

12:00-13:30 **Lunch break + poster session**

Chairperson: Dr. Ronit Lavi (*Bar-Ilan University*)

13:30-14:00 **Business meeting (general assembly)**

Session II – Application of redox chemistry

Chairperson: Oren Tirosh (*Faculty of Agriculture, Food and Environment, Hebrew University*)

14:00-14:30 **Ehud Gazit**

Tel Aviv University

Redox and molecular self assembly in physiology, pathology and biotechnology

14:30-14:50 **Aharon Gedanken**

Bar-Ilan University

Nanotechnology research of metaloxides nanoparticles

14:50-15:10 **Shai Rahimipour**

Bar-Ilan University

Novel self-assembled cyclic D,L-alpha-peptide nanotubes as potential therapeutics for different neurodegenerative diseases

15:10-15:30 **Sharon Ruthstein**

Bar-Ilan University

Deciphering the cellular copper trafficking mechanism in order to develop a new generation of antibiotics and biomarkers

15:30-15:50 *Coffee break*

15:50-16:10 **Lev Weiner**

Weizmann Institute of Science

Original application of nitroxyl radicals for electron and proton transfer in chemistry and biology

16:10-16:30 **Dana Reichmann**

The Hebrew University of Jerusalem

Temporal profiling of redox-dependent heterogeneity in single cells

16:30-16:50 **Eyal Gottlieb**

Technion and Cancer Research UK, Beatson Institute, Glasgow, UK

Proteome-wide analysis of cysteine oxidation reveals metabolic sensitivity to redox stress

16:50-17:00 **Closing remarks**