



**PROGRAM (last updated 08.02.2019)**

**SUNDAY, MARCH 10, 2019**

12:00 Registration Opens & Welcome

18:00 Dinner

19:00 Opening Ceremony

19:20 - 20:30 **Session 1: MITOCHONDRIA - THE ENERGY HUBS OF LIVING ORGANISMS**  
**Chair: Oren Ostersetzer-Biran, Israel**

19:20 KEYNOTE LECTURE: THE ENERGY HUBS OF LIVING ORGANISMS – BIOGENESIS AND SIGNALING  
**James Whelan**, La Trobe University, *Australia*

20:00 SPECIAL TALK: HUMAN MTDNA TRANSCRIPTIONAL REGULATION – NOVEL INSIGHTS FROM AN EVOLUTIONARY PERSPECTIVE  
**Dan Mishmar**, Ben-Gurion University of the Negev, *Israel*

**MONDAY, MARCH 11, 2019**

08:00 - 09:20 **Session 2: ORGANELLAR GENOMES STRUCTURE & FUNCTION I**  
**Chair: Mizuki Takenaka, Japan**

08:00 KEYNOTE LECTURE  
**TBA**

08:40 MUTATIONAL DYNAMICS IN ANGIOSPERM MITOCHONDRIAL GENOMES  
**Dan Sloan**, Colorado State University, *USA*

09:00 TARGETED DISRUPTION OF MITOCHONDRIAL GENES ASSOCIATED WITH CYTOPLASMIC MALE STERILITY IN RICE AND RAPESEED.  
**Shin-ichi Arimura**, The University of Tokyo, *Japan*

09:20 *Coffee Break*

09:40 - 10:40 **Session 3: ORGANELLAR GENOMES STRUCTURE & FUNCTION II**  
**Chair: Dan Sloan, USA**

09:40 GRAPH-BASED MODELS OF THE OENOTHERA MITOCHONDRIAL GENOME CAPTURE THE ENORMOUS COMPLEXITY OF HIGHER PLANT MITOCHONDRIAL DNA ORGANIZATION  
**Stephan Greiner**, Max-Planck Institute, *Germany*

10:00 PLANT MITOGENOMICS: PROGRESS AND PITFALLS  
**Jeffrey Mower**, University of Nebraska-Lincoln, *USA*



## MONDAY, MARCH 11, 2019 *Continued*

10:20 A 5'-3' DNA EXONUCLEASE WITH FLAP-ENDONUCLEASE ACTIVITY IS REQUIRED FOR THE STABILITY OF THE PLANT MITOCHONDRIAL GENOME  
**Jose Gualberto**, University of Strasbourg, *France*

10:45 – 15:00 **HALF-DAY TOUR: Qumran Nature Resort: Dead Sea Scrolls**  
 Light Lunch included

15:00 - 16:20 Session 4: **RESPIRATORY-MEDIATED FUNCTIONS**  
**Chair: Hans-Peter Braun**, Germany

15:00 KEYNOTE LECTURE: WHAT PLANT MITOCHONDRIA EAT: MAPPING OUT MITOCHONDRIAL METABOLISM  
**Harvey Millar**, University of Western Australia, *Australia*

15:40 WHEN PLANTS HOLD THEIR BREATH – HOW HYPOXIA-INDUCED MITOCHONDRIAL ELECTRON TRANSPORT INHIBITION RE-ORCHESTRATES SUBCELLULAR REDOX AND ENERGY PHYSIOLOGY  
**Markus Schwarzländer**, University of Münster, *Germany*

16:00 THE EVOLUTION OF “ECHOFORMS”, SINGLE PROTEINS WITH MULTIPLE SUBCELLULAR DESTINATIONS  
**Ophry Pines**, The Hebrew University of Jerusalem, *Israel*

16:20 Informal Discussion over coffee/beer

17:00 POSTER SESSION I (even numbers)

19:00 *Dinner*

## TUESDAY, MARCH 12, 2019

09:00 - 10:40 Session 5: **GENE EXPRESSION, TRANSCRIPTION & RNA PROCESSING I**  
**Chair: Stefan Binder**, Germany

09:00 **Ian Small**, University of Western Australia, *Australia*

09:20 PLANT TYPE C-TO-U RNA EDITING IN ESCHERICHIA COLI  
**Mareike Schallenberg-Rüdinger**, University of Bonn, *Germany*

09:40 CHARACTERIZATION OF THE OZ FAMILY INVOLVED IN ORGANELLE RNA METABOLISM  
**Stephane Bentolila**, Cornell University, *USA*

10:00 Short talks selected from abstracts

10:40 *Coffee Break*



**TUESDAY, MARCH 12, 2019 *Continued***

**11:00 - 13:00 Session 6: GENE EXPRESSION, TRANSCRIPTION & RNA PROCESSING II**  
**Chair: Ian Small, Australia**

- 11:00 REASSEMBLY OF COMPLEX PLANT RNA EDITOSOMES IN MITOCHONDRIA OF MARCHANTIA POLYMORPHA.  
**Mizuki Takenaka**, University of Kyoto, *Japan*
- 11:20 TARGETED CLEAVAGE OF MITOCHONDRIAL TRANSCRIPTS INDUCED BY MODIFIED PENTATRICOPEPTIDE REPEAT PROTEINS  
**Catherine Colas Des Francs-Small**, University of Western Australia, *Australia*
- 11:40 POST-TRANSCRIPTIONAL GENERATION OF 5' TERMINI OF PLANT MITOCHONDRIAL RNAS  
**Stefan Binder**, University of Ulm, *Germany*
- 12:00 *Break*
- 12:20 COMPLEXITIES OF RNA SPLICING IN PLANT MITOCHONDRIA  
**Linda Bonen**, University of Ottawa, *Canada*
- 12:40 Short talks selected from abstracts
- 13:00 *Light Lunch*

**14:00 - 16:40 Session 7: MITOCHONDRIA RIBOSOMES & TRANSLATION**  
**Chair: Harvey Millar, Australia**

- 14:00 COMPOSITION AND ARCHITECTURE OF ARABIDOPSIS MITOCHONDRIAL RIBOSOME  
**Philippe Giege**, University of Strasbourg, *France*
- 14:20 THE TRANSLATIONAL LANDSCAPE OF PLANT MITOCHONDRIA AND CONTROL BY PPR PROTEINS  
**Hakim Mireau**, National Institute for Agricultural Research, *France*
- 14:40 RIBOSOMAL REGULATION OF PLANT MITOCHONDRIAL TRANSLATION  
**Hanna Janska**, University of Wroclaw, *Poland*
- 15:00 *Coffee Break*
- 15:20 POST-TRANSLATIONAL PROTEIN MODIFICATIONS REGULATE MITOCHONDRIAL METABOLISM  
**Ian Max Moller**, Aarhus University, *Denmark*



## TUESDAY, MARCH 12, 2019 *Continued*

- 15:40            UNIQUE FEATURES OF CHLAMYDOMONAS MITOCHONDRIAL GENOME  
EXPRESSION  
**Thalia Salinas-Giegé**, CRNS, France
- 16:00            Short talks selected from abstracts
- 16:40            *Coffee Break*
- 17:00            POSTER SESSION II (odd numbers)
- 19:00            *Dinner*

## WEDNESDAY, MARCH 13, 2019

09:00 - 10:40    Session 8: **PROTEOMICS, COMPLEXES ASSEMBLY**  
**Chair: Philippe Giege**, France

- 09:00            LESSONS FROM MISTLETOE MITOCHONDRIA  
**Hans-Peter Braun**, University of Hannover, *Germany*
- 09:20            THE UNUSUAL RESPIRATION OF VISCUM ALBUM.  
**Etienne Meyer**, Max-Planck Institute, *Germany*
- 09:40            NON-PROTEIN AMINO ACIDS TARGETING ORGANELLAR TRANSLATION  
**Liron Klipcan**, ARO, Volcani Center, *Israel*
- 10:00            Short talks selected from abstracts
- 10:40            *Coffee Break*

11:00 - 12:00    Session 9: **MITOCHONDRIA SIGNALLING**  
**Chair: Hanna Janska**, Poland

- 11:00            NEO-FUNCTIONALISATION OF MITOCHONDRIAL PROTEINS AND  
INCORPORATION INTO SIGNALING NETWORKS IN PLANTS  
**Olivier Van Aken**, Lund University, *Sweden*
- 11:20            FUNCTION OF MITOCHONDRIAL EXTERNAL NAD(P)H DEHYDROGENASES IN  
PLANTS  
**Allan G. Rasmusson**, Lund University, *Sweden*
- 11:40            **TBA**



**WEDNESDAY, MARCH 13, 2019 *Continued***

12:30            **HALF-DAY TOUR:** Dead Sea, Masada, Ein-Gedi  
Light Lunch Included

19:00            *Dinner*

**THURSDAY, MARCH 14, 2019**

09:00 - 10:40    **Session 10: NUCLEAR-ORGANELLAR CROSS-TALK**  
**Chair: Elzbieta Glaser, Sweden**

09:00            INTERORGANELLAR NETWORK INFLUENCE ON PLANT PHENOTYPIC  
PLASTICITY  
**Sally Mackenzie, Penn State University, USA**

09:20            UNEXPECTED NEWS FROM A CRYPTIC CYTOPLASMIC MALE STERILITY  
**Françoise Budar, National Institute for Agricultural Research, France**

09:40            STUDY OF FACTORS INFLUENCING THE ACTIVITY OF DNA IMPORT INTO  
ARABIDOPSIS THALIANA MITOCHONDRIA IN ORGANELLO AND IN VIVO  
**Yuri Konstantinov, Siberian Institute of Plant Physiology, Russia**

10:00            Short talks selected from abstracts

10:40            *Coffee Break*

11:00 - 13:00    **Session 11: MITOCHONDRIAL (DYS) FUNCTION & DISEASE**  
**Chair: Tamar Avin-Wittenberg, Israel**

11:00            PEPTIDOLYTIC NETWORK IN MITOCHONDRIA AND CHLOROPLASTS  
**Elzbieta Glaser, Stockholm University, Sweden**

11:20            **TBA**

11:40            MITOCHONDRIAL AUGMENTATION THERAPY OF HEMATOPOIETIC STEM  
CELLS IN MITOCHONDRIAL DELETION SYNDROMES: PRELIMINARY SAFETY  
AND EFFICACY DEMONSTRATED IN FIRST-IN-HUMAN STUDY  
**Natalie Yivgi-Ohana, Minovia Therapeutics, Israel**

12:00            Short talks selected from abstracts

13:00            *Light Lunch*



#### **THURSDAY, MARCH 14, 2019 *Continued***

**14:00 - 16:00** Session 12: **AUTOPHAGY & MITOPHAGY**  
**Chair: Ophry Pines, Israel**

14:00 ANALYSIS OF A NOVEL PHOSPHODEGRON-LIKE SELECTIVITY MECHANISM  
IN STATIONARY PHASE MITOPHAGY  
**Hagai Abeliovich**, The Hebrew University of Jerusalem, *Israel*

14:20 AUTOPHAGY AND PLANT MITOCHONDRIA – A CONNECTION THROUGH  
CENTRAL METABOLISM  
**Tamar Avin-Wittenberg**, The Hebrew University of Jerusalem, *Israel*

14:40 *Coffee Break*

15:00 Short talks selected from abstracts

16:00 *Coffee Break*

**16:20 - 17:30** **MEETING SUMMARY & DISCUSSIONS**

16:20 OUTSIDER'S POINT OF VIEW  
**Nir Keren**, The Hebrew University of Jerusalem, *Israel*

17:00 Closing Remarks  
**Oren Ostersetzer-Biran**, The Hebrew University of Jerusalem, *Israel*

17:30 Football Match / Swimming Pool Time

19:00 Special Dinner & Farewell Party

20:00 Performance by the writer, actress & singer: Michal Shapira

21:00 Music and Dancing

#### **FRIDAY, MARCH 15, 2019**

Departures