

Sunday, September 2, 2018

20:30

Welcome dinner
for international speakers

Monday, September 3, 2018

08:00

Welcome remarks

08:10

Anne Visscher,
Royal Botanical Gardens, UK
Plant survival in challenging environments on Earth and in Space

08:50

Alexander Bowles,
University of Essex, UK
Evolutionary genomics: the emergence of drought tolerance in plants

09:30

Maheshi Dassanayake,
Louisiana State University, USA
*Insights into the genomic basis of extreme edaphic adaptations in *Schrenkiella parvula**

10:10

Coffee Break

10:40

Menachem Moshelion,
The Hebrew University, Israel
Whole-plant stress performance testing: A new tool for functional phenotyping

11:20

Zvi Peleg,
The Hebrew University, Israel
Phenotypic plasticity facilitates alterations in life-history strategies under combinations of environmental stresses

12:00

Vered Chalifa-Caspi, Ben-Gurion University of the Negev, Israel
NeatSeq-Flow: A platform for easy design and execution of complex high-throughput sequencing workflows for programmers and non-programmers alike

12:40

Lunch break

14:00

Simon Barak, Ben-Gurion University of the Negev, Israel
*Using *Arabidopsis* and its extremophyte relatives to identify genes involved in tolerance to abiotic stresses*

14:40

Stephen Chivasa, Durham University, UK
Gene discovery by signal interception - a tool for mining plant stress adaptation for biotechnology

15:20

Coffee break

15:50

Amy Marshall-Colon,
University of Illinois, USA
Predictive modeling to determine causal factors involved in long distance nitrogen signaling in plants

16:30

Esti Yeger-Lotem, Ben-Gurion University of the Negev, Israel
Quantitative views into the tissue-selectivity of hereditary diseases

17:10

Closing remarks

Tuesday, September 4, 2018

08:30

Tour around Midreshet Ben-Gurion, Ben-Gurion's gravesite, view over the Wilderness of Zin

09:30

Brief refreshments

09:40

Shiri Freilich, Volcani Institute, Newe Yaar, Israel
What can a farmer do with NGS data? Challenges in mapping quantitative traits based on NGS data.

10:20

Aaron Fait, Ben-Gurion University of the Negev, Israel
Correlation-based network analysis to reduce complexity of metabolomics data matrices

11:00

Coffee break

11:20

Maxim Kapralov,
University of Newcastle, UK
Exploring the natural diversity of plant enzymes to increase efficiency of photosynthesis in crops: Rubisco with or without C₄ and CAM carbon concentration mechanisms

12:00

Philip Mullineaux,
University of Essex, UK
Heat shock transcription factors- targets for increasing yield in the face of stress in the Brassicaceae. Can this strategy be applied to all crop species?

12:40

Ulrike Bechtold, University of Essex, UK
Identification of genes important for heat and drought tolerance in desert species

13:20

Closing remarks



Program

British Council Synergy Symposium

September 3-4, 2018

George Evens Auditorium
Jacob Blaustein Institutes for Desert Research
Ben-Gurion University of the Negev
Midreshet Ben-Gurion, Israel

For more information
in.bgu.ac.il/en/bidr/FAAB/Pages/synergy-conference.aspx