**Scientific Program**

**NEXT GENERATION PLANT BIOTECHNOLOGY**

**Monday, 11.4.2016**  Faculty Club

18:00-18:45  **Opening - Get together**

18:45-19:15  Greeting  
**Prof. Shmuel Wolf**, Dean, Faculty of Agriculture, food and Environment  
**Prof. Edouard Jurkevitch**, Director of the Center  
**Prof. Ilan Chet**, First Director of the Center  
**Prof. Lothar Willmitzer**, Director Of the Center’s Advisory Board  
**Prof. Shy Arkin**, Vice President, R&D Hebrew University  
**Ms. Gabriele Hermani**, Science Attaché, The Embassy of Germany

19:15-20:00  **Jonathan Gressel**, Weizmann Institute of Science, Israel  
Next Generation Biotechnology Must Solve Problems in Food Security

**Tuesday, 12.4.2016**  Ziman auditorium

08:45-9:30  **Key lecture -Sarah Hake**, USDA, USA  
Sympathy for the *Ligule*, a QTL that regulates the response of *Liguleless narrow* to the environment

**PLANT DEVELOPMENT**  
Chairperson: **Noami Ori**

09:30-10:00  **Zach Lippman**, Cold Spring Harbor, USA  
Returning to domestication to revitalize crop improvement: the florigen revolution

10:00-10:20  **Idan Efroni**, HUJI, Israel  
Root regeneration by recapitulation of an embryo-like developmental sequence

10:20-10:40  **Leor Eshed-Williams**, HUJI, Israel  
Differential regulation of meristem morphology, size and organization by three distinct pathways

10:40-11:10  **Coffee break**

**STRESS AND ADAPTATION**  
Chairperson: **Shmuel Wolf**

11:10-11:40  **Ulrich Schurr** Inst. of Bio and Geosciences, Jülich, Germany  
Quantitative information about plants in a variable and heterogenous environment - integrated approaches to mechanistic, high-throughput and field phenotyping

11:40-12:00  **Zvi Peleg**, HUJI, Israel  
Plant adaptations to abiotic stress combinations involved significant shifts in physiological and transcriptional dynamics

12:00-12:30  **Zoran Nikoloski**, MPI Golm, Germany  
The promise of large-scale metabolic models for plant biotechnological applications

12:30-12:50  **Smadar Harpaz-Saad**, HUJI, Israel  
The mechanism employed in plant adaptation to cell wall perturbation

12:50-14:00  **Lunch**
PLANT HORMONES

Chairperson: Menahem Moshelion

14:00-14:30 Thomas Schmulling, Freie Universität Berlin, Germany
Cytokinin as a tool to regulate organ growth in plants – transfer of knowhow from Arabidopsis to crop plants

14:30-14:50 Eilon Shani, TAU, Israel
Identifying gibberellic-acid transport mechanisms in Arabidopsis

14:50-15:05 Assaf Mosquila, HUJI, Israel
Activation of ABA receptors

15:05-15:30 Coffee break

PLANT PATHOGENS SIGNALING/ISRAELI PLANT BIOTECH

Chairperson: Oded Yarden

15:30-15:50 Ofir Bahar, ARO, Israel
Exploiting the potential of pattern recognition receptors to improve crop resistance

15:50-16:10 Sigal Brown-Miyara, ARO, Israel
Lipid signals as part of the plant - nematode language

16:10-17:10 Israeli Agro-Biotech: the companies’ views I
Yissum - Michal Levy
Rootility – Rafael Meissner
FuturaGene - Stanley Hirsch
Equinom - Gil Shalev

Wednesday, 13.4.2016 Ziman auditorium

08:30-09:15 Key lecture - Ulla Bonas, Halle, Germany
How the bacterial pathogen Xanthomonas manipulates the plant

Parallel session

FUNGUS-PLANT INTERACTIONS - Etrog auditorium

Chairperson: Saul Burdman

09:20-9:50 Armin Djamei, Gregor Mendel Inst, Vienna, Austria
Dissecting the effectome of the maize pathogen

09:50-10:20 Michael Feldbrugge, Heinrich-Heine-Univ. Düsseldorf, Germany
The biotechnological use and potential of plant pathogenic smut fungi: From basic research to applied sciences

10:20:10:40 Shay Covo, HUJI, Israel
What is so exciting about chromosomes of fungi?

Parallel session

ABIOTIC STRESS IN CEREALS - Ziman auditorium

Chairperson: Zvi Peleg

09:20-09:50 Roberto Tuberosa, University of Bologna, Italy
TBA

09:50-10:20 Yehoshua Saranga, HUJI, Israel
Israel QTL introgression for improving abiotic stress resistance in wheat

10:20-10:40 Karin Krupinska, Kiel University, Germany
WHIRLY1 dependent chloroplast signaling during growth of barley in high light is associated with changes in microRNA levels

David Bonfil, ARO, Israel
Wheat phenomics in the field by RapidScan: NDVI vs. NDRE

10:40—11:05 Coffee break
Parallel session
THE PLANT MICROBIOME – Etrog auditorium

Chairperson: Yitzhak Hadar

11:05-11:35  Kornelia Smalla, Julius Kühn-Inst, Braunschweig, Germany
The rhizosphere microbiome

11:35-11:55  Eddie Cytryn, ARO, Israel
Deciphering flavobacterial-rhizosphere interactions

11:55-12:15  Noam Alkan, ARO, Israel
Mango fruit stem-end microbiome

12:15-12:35  Ilana Kolodkin-Gal, Weizmann Institute of Science, Israel
Side-group specific recognition of plant-derived indoles shapes social behaviors of Bacillus subtilis

Parallel session
ADVANCES IN WHEAT GENOMICS

Chairperson: Roberto Tuberosa & Gil Ronen

11:10-11:30  Martin Mascher, IPK, Germany
Conservation and rearrangement: gene order in peri-centromeric regions of Triticeae genomes

11:30-11:50  Gil Ronen, NRGgene, Israel
The future is denovoMagic

11:50-12:10  Hikmet Budak, Sabanci University, Turkey
TBA

12:10-12:30  Asaph Aaroni, Weizmann Institute of Science, Israel
Chromosomal rearrangements are responsible for the β-diketones cuticular wax production in wheat

12:35-14:00  Lunch

Ziman auditorium

BIODIVERSITY FOR PLANT BREEDING

Chairperson: Dani Zamir

14:00-14:30  Andreas Graner, IPK, Germany
Ex situ collections: getting dressed up for another green revolution

14:30-15:00  Sandra Knapp, London Nat. History Museum, GB
Biodiversity – for or against plant biotechnology?

15:00-15:30  Andrew Paterson, Univ. of Georgia, USA
Applying a reference genome to cotton breeding

15:30-15:50  Coffee Break

15:50-16:20  Curtis Pozniak, University of Saskatchewan, Canada
Wheat breeding in the genomic era

15:50-16:50  Israeli Agro-Biotech: the companies’ views, II
Hazera Seeds - Orna Livneh
Danziger-innovations – Hanne Volpin
Evogene - Eyal Emmanuel

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