



Sunday, September 15, 2019

14:00 *Registration opens at the Ramada Hotel Jerusalem*

18:00 -19:00 OPENING SESSION

GREETINGS

Joseph Hirschberg, Department of Genetics, Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel

Dani Zamir, The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel

Christian W.B. Bachem, Department of Plant Sciences, Wageningen University & Research, Wageningen, The Netherlands

OPENING LECTURE

HOST MICROBIOME INTERACTIONS IN HEALTH AND DISEASE

Eran Elinav, Department of Immunology, Weizmann Institute of Science, Rehovot, Israel

19:00 *Welcome Reception, Poolside*

Monday, September 16, 2019

8:00 *Registration*

09:00 - 10:40 SESSION 1: SOLANACEAE GENOMICS

Chairs: **David Charles Baulcombe**, Botany, University of Cambridge, Cambridge, UK

Giovanni Giuliano, Italian National Agency for New Technologies (ENEA), Energy and Sustainable Development, Rome, Italy

9:00 GENOME INTERACTIONS IN GRAFTED AND HYBRIDISED TOMATOES

David Charles Baulcombe, Botany, University of Cambridge, Cambridge, UK

9:25 THE UPOTATO PLAN - GENOME DESIGN OF POTATO DIPLOID INBRED LINES

Sanwen Huang, Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, Shenzhen, China

9:50 NEW FUNCTIONS REVEALED BY CRISPR/CAS9 EDITING OF TOMATO MIR GENES

Tzahi Arazi, Department of Ornamental Plants and Agricultural Biotechnology, Institute of Plant Sciences, ARO, the Volcani Center, Rishon LeZion, Israel

10:10 GENOME ASSEMBLY AND COMPARISON OF THE THREE PHYSALIS SPECIES PHYSALIS IXOCARPA, P. PRUINOSA AND P. ALKEKengi

Björn Usadel, IBG-2 Plant Sciences, Forschungszentrum Jülich, Jülich, Germany

10:20 TOMETHYL: TOWARD A UNIQUE TOMATO EpiRIL POPULATION

Philippe Gallusci, Department of Environmental Sciences, UMR EGFV, University of Bordeaux, INRA, Bordeaux Science Agro, Bordeaux, France

10:30 DNA METHYLATION HOMEOSTASIS IN TOMATO

Nicolas Bouché, IJPB, INRA, Versailles, France

10:40 *Coffee, poster viewing & visit the exhibition*



XVI SOLANACEAE CONFERENCE
YIELD & NUTRITION
SEPTEMBER 15-19, 2019
JERUSALEM
ISRAEL

Monday, September 16, 2019, Continued

11:10 - 12:35 SESSION 2: DIVERSITY AND EVOLUTION

Chairs: **Sandra Knapp**, Department of Life Sciences, Natural History Museum, London, UK
Ilan Levin, Department of Vegetable and Field Crop Research, The Institute of Plant Sciences, ARO, the Volcani Center, Rishon LeZion, Israel

- 11:10 **DISCOVERING BIODIVERSITY IN SOLANACEAE**
Sandra Knapp, Department of Life Sciences, Natural History Museum, London, UK
- 11:35 **EVOLUTIONARY GENOMICS ACROSS SOLANUM AND THE SOLANACEAE**
Leonie Moyle, Department of Biology, Indiana University, Bloomington, IN, USA
- 12:00 **WORLDWIDE GENE BANK GENOMICS OF THE FOUR MAJOR SOLANACEOUS CROPS**
Giovanni Giuliano, Italian National Agency for New Technologies (ENEA), Energy and Sustainable Development, Rome, Italy
- 12:25 **REVEALING TRUE ALLELIC VARIATION IN TOMATO, POTATO AND PEPPER**
Gil Ronen, R&D, NRGene, Ness Ziona, Israel

12:35 *Lunch, poster viewing & visit the exhibition*

13:30 - 15:00 SESSION 3: METABOLISM & METABOLOMICS I

Chairs: **Robert Last**, Department of Biochemistry and Molecular Biology and Department of Plant Biology, Michigan State University, East Lansing, MI USA
Vered Tzin, Institutes for Desert Research, Ben Gurion University of the Negev, Sede Boqer Campus, Israel

- 13:30 **THE SOLANACEAE AS A MODEL FOR SPECIALIZED METABOLIC EVOLUTION: LIVING THE DREAM, STUDYING TRICHOMES**
Robert Last, Department of Biochemistry and Molecular Biology and Department of Plant Biology, Michigan State University, East Lansing, MI USA
- 13:55 **FUNCTIONAL METABOLOMICS IN TOMATO AND OTHER SPECIES**
Alisdair Fernie, Max-Planck-Institute of Molecular Plant Physiology, Potsdam-Golm, Germany
- 14:20 **THE GENETIC ARCHITECTURE OF TOMATO FRUIT METABOLIC COMPOSITION**
Saleh Alseekh, Max-Planck-Institute of Molecular Plant Physiology, Potsdam, Germany
- 14:40 **LANOSTEROL SYNTHASE-LIKE IS INVOLVED WITH DIFFERENTIAL ACCUMULATION OF STEROIDAL GLYCOALKALOIDS IN POTATO TUBER-FLESH AND LEAVES**
Idit Ginzberg, Department of Vegetable and Field Crops, Institute of Plant Sciences, ARO, the Volcani Center, Rishon LeZion, Israel
- 14:50 **POLYMORPHISM IN HYOSCYAMINE 6 BETA HYDROXYLASE (H6H) GENES IS ASSOCIATED WITH ALKALOID CHEMO-DIVERSITY IN MANDRAGORA SSP. (SOLANACEAE)**
Daniel Schlesinger 1,2
1. Vegetable Crops, Newe Ya'ar Research Center, Ramat Yishay, Israel, 2. Evolutionary & Environmental Biology, University of Haifa, Haifa, Israel

15:00 *Coffee, poster viewing & visit the exhibition*



Monday, September 16, 2019, Continued

15:30 - 16:40 SESSION 4: METABOLISM & METABOLOMICS II

Chairs: **Paul D. Fraser**, Plant and Microbial Sciences, School of Biological Sciences, Royal Holloway University of London, Egham Hill, Egham, Surrey, UK

Rachel Amir, Plant Science, Tel Hai/migal, Kiryat Shmona, Israel

15:30 CAROTENOID BIOSYNTHESIS IN CAPSICUM ANNUUM; WERE WE RIGHT TO USE TOMATO AS THE TRANSLATABLE MODEL?

Paul D. Fraser, Plant and Microbial Sciences, School of Biological Sciences, Royal Holloway University of London, Egham Hill, Egham, Surrey, UK

15:55 MOLECULAR GENETIC ANALYSIS OF FRUIT COLOR GENES IN PEPPER

Byoung-Cheorl Kang, Department of Plant Science, College of Agriculture and Life Sciences, Seoul National University, Seoul, South Korea

16:20 THE WILD METABOLISM OF DOMESTICATED TOMATO - DISSECTING THE GENETIC BASIS OF VARIATION IN TOMATO FRUIT METABOLISM AND PATHOGEN RESISTANCE

Jedrzej Szymanski, Molecular Genetics, Leibniz Institute of Plant Genetics and Crop Plant Research, Seeland, Germany

16:30 THE TOMATO SEROTONIN PATHWAY: IN SEARCH OF BIOLOGICAL ROLES FOR FRUIT INDOLAMINES

Stefano Negri, Università Degli Studi Di Verona, Dipartimento Di Biotecnologie, Verona, Italy

16:40 - 19:00 POSTER SESSION (odd numbers)

19:00 *End of day's sessions*

Tuesday, September 17, 2019

8:00 *Registration*

09:00 - 10:30 SESSION 5: DOMESTICATION & BREEDING

Chairs: **Zachary B. Lippman**, HHMI Investigator, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA

Ilan Paran, Department of Vegetable and Field Crop Research, The Institute of Plant Sciences, ARO, the Volcani Center, Rishon LeZion, Israel

9:00 EPISTASIS IN DEVELOPMENT, DOMESTICATION AND BREEDING

Zachary B. Lippman, HHMI Investigator, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA

9:25 DE NOVO DOMESTICATION OF WILD TOMATO USING GENOME EDITING

Lazaro Peres, Department of Biological Sciences Escola Superior de Agricultura "Luiz de Queiroz" University of São Paulo - USP, São Paulo, Brazil

9:50 THE ORIGINS AND ADAPTATION OF EUROPEAN POTATOES RECONSTRUCTED FROM HISTORICAL GENOMES

Hernán A. Burbano, Research Group for Ancient Genomics and Evolution, Max Planck Institute for Developmental Biology, Tübingen, Germany

10:00 WHAT CAN WE GAIN FROM THE ANALYSIS OF RECENT POSITIVE SELECTION SIGNATURE AND MULTIPLE HAPLOTYPE-BASED ANALYSES IN TOMATO?

Jiantao Zhao, GAFL, INRA, Montfavet, France

10:10 TARGETED RECOMBINATION IN PLANTS

Shdema Filler Hayut, Department of Plant and Environmental Sciences, Weizmann Institute of Science, Rehovot, Israel

10:20 NEW GENOME ENGINEERING TOOLS FOR SOLANACEAE

Diego Orzaez, Biotechnology, IBMCP CSIC, Valencia, Spain

10:30 *Coffee, poster viewing & visit the exhibition*



Tuesday, September 17, 2019, Continued

11:00 - 12:30 SESSION 6: DEVELOPMENT

Chairs: **Esther van der Knaap**, Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Athens, GA, USA
Naomi Ori, The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, The Hebrew University of Jerusalem, Rehovot, Israel

- 11:00 A COMMON GENETIC MECHANISM UNDERLIES MORPHOLOGICAL DIVERSITY IN PLANTS
Esther van der Knaap, Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Athens, GA, USA
- 11:25 A SMALL SIGNALING PEPTIDE DIRECTS ORGAN SHAPE AND IMMUNE RESPONSE OF TOMATO
Cao Xu, Institute of Genetics and Developmental Biology (IGDB), Chinese Academy of Sciences, Beijing, China
- 11:50 ADVENTITIOUS ROOT FORMATION IN TOMATO
Idan Efroni, Faculty of Agriculture, Institute of Plant Sciences, The Hebrew University of Jerusalem, Rehovot, Israel
- 12:10 REDUNDANCY ENABLES STABILITY AND FLEXIBILITY IN PLANT DEVELOPMENT
Alon Israeli, The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, The Hebrew University of Jerusalem, Rehovot, Israel
- 12:20 A TOMATO MYB TRANSCRIPTION FACTOR GENE, SLMYBHTH, REGULATES ROOT AS WELL AS SHOOT DEVELOPMENT
Vidhu Sane, Plant Gene Expression Lab, CSIR National Botanical Research Institute, Lucknow, India

12:30 *Lunch, poster viewing & visit the exhibition*

13:15 - 14:35 SESSION 7: FRUIT & TUBER QUALITY

Chairs: **Harry Klee**, Horticultural Sciences, University of Florida, Gainesville FL, USA
Arthur A. Schaffer, Department of Vegetable and Field Crop Sciences, Plant Science Institute, ARO, the Volcani Center, Rishon LeZion, Israel

- 13:15 A MULTI-OMICS APPROACH TO FIXING FLAVOR IN THE COMMERCIAL TOMATO
Harry Klee, Horticultural Sciences, University of Florida, Gainesville FL, USA
- 13:40 NUTRITIONAL IMPROVEMENT OF TOMATO BY GENE EDITING TECHNOLOGY
Hiroshi Ezura, Faculty of Life and Environmental Sciences; Tsukuba Plant Innovation Research Center, University of Tsukuba, Tsukuba, Japan
- 14:05 MINING THE WILD RELATIVES OF TOMATO FOR IMPROVING FRUIT QUALITY
Arthur A. Schaffer, Department of Vegetable and Field Crop Sciences, Plant Science Institute, ARO, the Volcani Center, Rishon LeZion, Israel
- 14:25 MORE NUTRITIOUS POTATOES HELPS TO IMPROVE FOOD SECURITY AND NUTRITION IN COLOMBIA
Teresa Mosquera, Agronomy, Universidad Nacional De Colombia, Sede Bogotá, Bogotá, Colombia

14:35 *Coffee, poster viewing & visit the exhibition*



Tuesday, September 17, 2019, Continued

15:15 - 16:25 SESSION 8: SOLANACEAE GENOMICS AND BREEDING

Chairs: **Christian W.B. Bachem**, Department of Plant Sciences, Wageningen University & Research, Wageningen, The Netherlands

Dani Zamir, The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel

- 15:15 LEVERAGING GENOME INFORMATION FOR PLANT IMPROVEMENT
Lukas Mueller, School of Integrative Plant Science, Cornell University, Ithaca, NY, USA
- 15:40 A PHYLOGENOMIC AND SYSTEMS BIOLOGY APPROACH TO IDENTIFY GENES UNDERLYING PLANT SURVIVAL IN DRY, LOW-NITROGEN SOILS OF THE ATACAMA DESERT
Gil Eshel, Department of Biology, Center for Genomics and Systems Biology, New York University, New York, NY, USA
- 15:50 NARROWING THE GAP BETWEEN BREEDING AND MOLECULAR INSIGHTS INTO THE BIOLOGY OF POTATO TRAITS
Christian W.B. Bachem, Department of Plant Sciences, Wageningen University & Research, Wageningen, The Netherlands
- 16:15 COMPARING QTLs FOR YIELD AND COMPONENT TRAITS IN INDETERMINATE TOMATO
Yutaka Tsutsumi-Morita, Horticulture and Product Physiology, Wageningen University and Research, Wageningen, Netherlands

16:25 - 18:45 POSTER SESSION (even numbers)

Wednesday, September 18, 2019

8:00 *Registration*

09:00 - 10:30 SESSION 9: NUTRITION & HEALTH

Chairs: **Cathie Martin**, Department of Metabolic Biology, John Innes Centre, Norwich, UK

Asaph Aharoni, Department of Plant & Environmental Sciences Faculty of Biochemistry, Weizmann Institute of Science, Rehovot, Israel

- 9:00 IMPROVING OUR HEALTH AND WELL-BEING WITH HIGH QUALITY SOLANACEOUS FOODS
Cathie Martin, Department of Metabolic Biology, John Innes Centre, Norwich, UK
- 9:25 BREADTH, DEPTH, AND ELASTICITY OF THE TOMATO HEALTH AND FLAVOUR COMPOSITION SPACE
Antonio Granell, IBMCP (CSIC-UPV), Valencia, Spain
- 9:50 ENJOYING THE FRUITS OF KNOWLEDGE: A SWEETER TOMATO
Vera Veltkamp, Plant Developmental Systems, Wageningen University, Wageningen, Netherlands
- 10:00 TOMATO STEROIDAL GLYCOALKALOIDS: POTENTIALLY BIOACTIVE COMPOUNDS WITH HUMAN HEALTH BENEFITS?
Jessica Cooperstone 1,2
1. Horticulture and Crop Science, The Ohio State University, Columbus, USA , 2. Food Science and Technology, The Ohio State University, Columbus, USA
- 10:10 THE ROAD TO ECONOMICALLY COMPETITIVE AND SUSTAINABLE ASTAXANTHIN PRODUCTION IN TOMATO FRUIT
Eugenia Enfissi, School of Biological Sciences, Royal Holloway University of London, Egham, UK
- 10:20 METABOLIC ENGINEERING OF XANTHOPHYLLS IN TOMATO FRUIT
Uri Karniel, Department of Genetics, Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel

10:30 *Coffee, poster viewing & visit the exhibition*



Wednesday, September 18, 2019, Continued

11:00 - 12:35 SESSION 10: REGULATION OF FRUIT DEVELOPMENT

Chairs: **James J. Giovannoni**, USDA-ARS Robert W. Holley Center and Boyce Thompson Institute, Cornell University Campus, Ithaca, NY, USA

Joseph Hirschberg, Department of Genetics, Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel

- 11:00 DEVELOPMENTAL TRANSITIONS AND TRANSCRIPTOMIC REPROGRAMMING UNDERLYING TOMATO FRUIT DEVELOPMENT
Mondher Bouzayen, INRA/INPT Laboratory "Genomics and Biotechnology of Fruits", University of Toulouse, Institut National Polytechnique - ENSA Toulouse, France
- 11:25 TRANSCRIPTIONAL REGULATORS OF TOMATO FRUIT DEVELOPMENT, RIPENING AND NUTRITIONAL TRAITS
James J. Giovannoni, USDA-ARS Robert W. Holley Center and Boyce Thompson Institute, Cornell University Campus, Ithaca, NY, USA
- 11:50 THE ROLE OF ABA RECEPTORS IN THE REGULATION OF RIPENING AND FRUIT QUALITY TRAITS IN TOMATO
Ping Leng, College of horticulture, Agricultural University, Beijing, China
- 12:15 THE ROLE OF SLWOX9/S IN TOMATO FRUIT DEVELOPMENT
Han Xiao, Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, Shanghai, China
- 12:25 INTEGRATED MULTI-OMIC ANALYSIS REVEALS THE POST-TRANSCRIPTIONAL COMPONENT OF TOMATO FRUIT RIPENING REGULATION
Mary-Ann Blätke, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Department of Molecular Genetics, Gatersleben, Germany

12:35 *Lunch, poster viewing & visit the exhibition*

13:30 - 14:55 SESSION 11: VARIATION & ADAPTATION

Chairs: **Roger T. Chetelat**, C.M. Rick Tomato Genetics Resource Center, Department of Plant Sciences, University of California Davis, CA, USA

Chuanyou Li, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China

- 13:30 DECIPHERING THE MECHANISMS OF POLLEN REJECTION IN WIDE CROSSES OF TOMATO
Roger T. Chetelat, C.M. Rick Tomato Genetics Resource Center, Department of Plant Sciences, University of California Davis, CA, USA
- 13:55 POLLEN FLAVONOLS IN A TOMATO HIGH-PIGMENT MUTANT GROWN UNDER HEAT STRESS CONDITIONS
Michal Lieberman-Lazarovich, Department of Vegetables and Field Crops, Institute of Plant Sciences, ARO, the Volcani Center, Rishon LeZion, Israel
- 14:15 GIBBERELLIN SIGNALING IN TOMATO AND ITS ROLE IN DROUGHT RESPONSE
David Weiss, Institute of Plant Sciences and Genetics in Agriculture, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel
- 14:35 JAZ AND TIFY8 PROTEIN INTERACTIONS AT THE CROSSROADS OF JASMONATE SIGNALING IN SOLANUM LYCOPERSICUM
Avanish Rai ^{1,2}
1. Department of Plant Biotechnology and Bioinformatics, Ghent University, Ghent, Belgium
2. Vib Center for Plant Systems Biology, Ghent University, Ghent, Belgium
- 14:45 ISOLATING KEY TRAITS AND DIFFERENTIAL EXPRESSED GENES RELATED TO N-METABOLISM IN CONTRASTING N-USE EFFICIENT EGGPLANTS (SOLANUM MELONGENA L.)
Francesco Sunseri, Agraria, University Reggio Calabria, Reggio Calabria, Italy

14:55 *Coffee, poster viewing & visit the exhibition*



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Wednesday, September 18, 2019, Continued
15:30 - 17:30 SESSION 12: FLOWERING AND TUBERIZATION

Chairs: **Bettina Hause**, Department of Cell and Metabolic Biology, Leibniz Institute of Plant Biochemistry, Halle, Germany
Yuval Eshed, Department of Plant and Environmental Science, Weizmann Institute of Science, Rehovot, Israel

15:30	ROLE OF JASMONATES IN FLOWER DEVELOPMENT OF TOMATO Bettina Hause , Department of Cell and Metabolic Biology, Leibniz Institute of Plant Biochemistry, Halle, Germany
15:55	TRANSCRIPTIONAL PROFILES OF SINGLE TOMATO MERISTEMS CAPTURE FLORAL TRANSITION EXPRESSION DYNAMICS Yuval Eshed , Department of Plant and Environmental Science, Weizmann Institute of Science, Rehovot, Israel
16:15	BEYOND FLOWERING: THE GENETIC AND MOLECULAR BASES FOR THE PLEIOTROPIC FUNCTIONS OF FLORIGEN Eliezer Lifschitz , Department of Biology, Technion - Israel Institute of Technology, Haifa, Israel
16:35	THE IDD TRANSCRIPTION FACTOR STPCP1 AFFECTS FLOWERING AND TUBERIZATION IN SOLANUM TUBEROSUM Christina Kühn , Plant Physiology, Humboldt Universität Zu Berlin, Institute of Biology, Berlin, Germany
16:45	N-DEPENDENT FLOWERING AND TUBERIZATION AND THE ROLE OF THE NLP TRANSCRIPTION FACTOR FAMILY IN SOLANUM TUBEROSUM AND ARABIDOPSIS THALIANA Vanessa Wahl , Max Planck Institute of Molecular Plant Physiology, Potsdam (OT) Golm, Germany
16:55	DO SUGARS ACT LIKE HORMONES? THE IMPACT OF APICAL DOMINANCE ON POTATO YIELD Dani Eshed , Department of Postharvest Science, ARO, the Volcani Center, Rishon LeZion, Israel
17:05	THE BATTLE OF THE SINKS: HOW FLOWERING AND TUBERISATION COMPETE IN POTATO Sara Bergonzi , Plant Breeding, Wageningen University, Wageningen, Netherlands
17:15	SOLYNTUS, THE NEW REFERENCE FOR GENETICS AND GENOMICS RESEARCH IN POTATO Pim Lindhout , R&D, Solynta, Wageningen, The Netherlands
17:30	<i>Short break</i>
17:40	ROUND TABLE: SOL CODE Moderator: Dani Zamir , The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel TBA
18:40	<i>End of day's sessions</i>
19:00	<i>Departure for Conference Dinner at Beit Shmuel</i> <i>Musical performance by the Gilad Ephrat Ensemble at the YMCA</i>



Thursday, September 19, 2019

8:00 Registration

9:00 - 10:35 SESSION 13: BIOTIC & ABIOTIC STRESSES

Chairs: **Gregory Martin**, School of Integrative Plant Science, Cornell University, Ithaca, NY, USA

David Weiss, Institute of Plant Sciences and Genetics in Agriculture, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel

9:00 USING NATURAL VARIATION AND CRISPR IN TOMATO TO UNDERSTAND AND IMPROVE THE PLANT IMMUNE SYSTEM

Gregory Martin, School of Integrative Plant Science, Cornell University, Ithaca, NY, USA

9:25 MANIPULATION OF PLANT IMMUNITY BY XANTHOMONAS TYPE III SECRETED EFFECTORS

Guido Sessa, School of Plant Sciences and Food Security, Tel Aviv University, Tel Aviv, Israel

9:45 GENOME EDITING SLNRC4A RESULTS IN BROAD-SPECTRUM PATHOGEN-RESISTANCE IN TOMATO

Adi Avni, School of Plant Sciences and Food Security, Tel Aviv University, Tel Aviv, Israel

10:05 GENOME ANALYSIS AND UTILITY OF TOMATO GENOTYPES TOLERANT OR RESISTANT TO THE EMERGING TOMATO BROWN RUGOSE FRUIT VIRUS

Ilan Levin, Department of Vegetable and Field Crop Research, The Institute of Plant Sciences, ARO, the Volcani Center, Rishon LeZion, Israel

10:25 POST-GERMINATION RESISTANCE OF TOMATO AGAINST A ROOT PARASITIC PLANT, PHELIPANCHE AEGYPTIACA

Koh Aoki, Graduate School of Life and Environmental Sciences, Osaka Prefecture University, Sakai, Japan

10:35 Coffee

11:00 - 11:30 SESSION 13: CONTINUED

11:00 DEVELOPMENT OF RESISTANCE TO TOMATO BROWN RUGOSE FRUIT VIRUS IN SOLANUM LYCOPERSICUM

Michael Kravchik, Department of Plant Pathology and Weed Research, ARO, the Volcani Center, Rishon LeZion, Israel

11:10 USE OF WILD SPECIES TOLERANT TO STRESSES FOR THE DEVELOPMENT OF INTROGRESSION LINES SETS IN EGGPLANT

Jaime Prohens, COMAV, Universitat Politècnica De València, Valencia, Spain

11:20 THE ROLE OF CYTOKININ IN PLANT PATHOGEN INTERACTIONS

Maya Bar, Department of Plant Pathology and Weed Research, ARO, the Volcani Center, Rishon LeZion, Israel

11:30 - 12:45 SESSION 14: SOLANACEAE ARE NOT ALONE

Chair: **Avraham A. Levy**, Department of Plant and Environmental Sciences, Weizmann Institute of Science, Rehovot, Israel

11:30 YIN AND YANG IN THE RHIZOSPHERE: INTERPLAY BETWEEN ROOT EXUDATION AND MICROBIOME FORCES IN THE TOMATO UNDERGROUND WORLD

Asaph Aharoni, Department of Plant & Environmental Sciences Faculty of Biochemistry, Weizmann Institute of Science, Rehovot, Israel

12:00 **CLOSING LECTURE:**
AMORTIZING NATURAL VARIATION TO UNDERSTAND A NATIVE PLANT'S ECOLOGICAL SOPHISTICATION

Ian Thomas Baldwin, Max Planck Institute for Chemical Ecology, Department of Molecular Ecology, Jena, Germany

12:30 **CLOSING REMARKS**

12:45 End of sessions & light lunch