



# Using Genetic Resource Data for Breeding The G2P-SOL Advanced Training School II

ONLINE  
14:00 - 17:00  
CEST  
DAILY

October 11-13, 2021

Breeding Solanaceae Fruit:  
EGGPLANT, PEPPER AND TOMATO



**October 11, 2021 DAY 1**

**Organizer: Jaime Prohens**

**EGGPLANT**

**14:00**

**SHORT INTRODUCTION**

**Jaime Prohens, Universitat Politècnica de València (UPV), Spain**

**14:05**

**Transversal presentation**

**OVERVIEW OF G2P-SOL PROJECT AND ITS CONTRIBUTION TO BREEDING SOLANACEOUS CROPS**

**Giovanni Giuliano, Italian National Agency for New Technologies (ENEA), Italy**

**14:25**

**Q&A**

**14:35**

**INTRODUCTION AND OVERVIEW OF EGGPLANT GENETIC RESOURCES AND BREEDING**

**Jaime Prohens, Universitat Politècnica de València (UPV), Spain**

**14:55**

**Q&A**

**15:05**

**EGGPLANT HIGH-THROUGHPUT GENOTYPING AND GENOMICS**

**Lorenzo Barchi, University of Torino (UNITO), Italy**

**15:25**

**Q&A**

**15:35**

**BREAK**

**15:45**

**BROADENING THE GENETIC BASE AND INTROGRESSION BREEDING IN EGGPLANT**

**Mariola Plazas, Universitat Politècnica de València (UPV), Spain**

**16:05**

**Q&A**

**16:15**

**BREEDING FOR RESISTANCE TO FUNGAL WILTS**

**Laura Toppino, Council for Agricultural Research and Agricultural Economy Analysis (CREA), Italy**

**16:35**

**Q&A**

**16:45**

**GENE EDITING IN EGGPLANT**

**Andrea Moglia, University of Torino (UNITO), Italy**

**17:05**

**Q&A and closing remarks Day 1**





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**October 12, 2021**

**DAY 2**

**Organizer: Ilan Paran**

**PEPPER**

**14:00**

**SHORT INTRODUCTION**

*Ilan Paran, The Volcani Center, Israel*

**14:05**

**Transversal presentation**

G2P-SOL DATABASE

*Amnon Grossberger, phenome networks, Israel*

**14:25**

**Q&A**

**14:35**

**CHALLENGES IN BREEDING OF BLOCKY TYPE PEPPER**

*Yonathan Elkind, The Robert H Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem (HUJI), Israel*

**14:55**

**Q&A**

**15:05**

**METABOLOMICS-ASSISTED BREEDING IN PEPPER**

*Yury Tikunov, Wageningen University and Research (WUR), Netherlands*

**15:25**

**Q&A**

**15:35**

**BREAK**

**15:45**

**GENOMICS OF PEPPER GENE BANK COLLECTIONS: IMPLICATION FOR GERMPLASM MANAGEMENT AND DIVERSITY STUDIES**

*Pasquale Tripodi, Council for Agricultural Research and Agricultural Economy Analysis (CREA), Italy*

**16:05**

**Q&A**

**16:15**

**HIGH THROUGHPUT PHENOTYPING OF THE G2PSOL PEPPER COLLECTION FOR HEAT TOLERANCE**

*Derek W. Barchenger, World Vegetable Center, Taiwan*

**16:35**

**Q&A**

**16:45**

**PEPPER CORE COLLECTION TRIALS AND GWAS**

*Veronique Lefebvre, The National Research Institute for Agriculture, Food and the Environment (INRAE), France*

**17:05**

**Q&A and closing remarks Day 2**





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**October 13, 2021 DAY 3**

**TOMATO**

**Organizer: Dani Zamir**

- 14:00** **SHORT INTRODUCTION**  
**Dani Zamir**, *The Robert H Smith Faculty of Agriculture, Food and Environment The Hebrew University of Jerusalem (HUJI), Israel*
- 14:05** **Transversal presentation**  
THE WORLD VEGETABLE CENTER SOLANACEAE COLLECTIONS, RESEARCH AND DATABASES  
**Roland Schafleitner**, *World Vegetable Center, Taiwan*
- 14:25** **Q&A**
- 14:35** THE TRADITOM COLLECTION: REVEALING UNTAPPED EUROPEAN TRADITIONAL TOMATO DIVERSITY FOR FUTURE BREEDING  
**Clara Pons**, *Universitat Politècnica de València (UPV), Spain*
- 14:55** **Q&A**
- 15:05** GENE EDITING IN TOMATO  
**Sophie Zebell**, *Cold Spring Harbor Laboratory (CSHL), Lippman Laboratory, USA*
- 15:25** **Q&A**
- 15:35** **BREAK**
- 15:45** TOMATO G2P-SOL - HIGH-THROUGHPUT GENOTYPING AND PHYLOGENETIC RELATIONSHIPS  
**Giuseppe Aprea**, *Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy*
- 16:05** **Q&A**
- 16:15** EXOTIC GENETIC LIBRARIES FOR FINE MAPPING OF TOBRFV RESISTANCE  
**Shai Torgeman**, *The Robert H Smith Faculty of Agriculture, Food and Environment The Hebrew University of Jerusalem (HUJI), Israel*
- 16:35** **Q&A**
- 16:45** TOMATO GENETIC RESOURCES: THE TGRC COLLECTION AND DATABASE  
**Roger Chetelat**, *UC Davis, Department of Plant Sciences, USA*
- 17:05** **Q&A**
- 17:15** **CONCLUDING REMARKS: Giovanni Giuliano**, *Italian National Agency for New Technologies (ENEA), Italy* and **Gert-Jan de Boer**, *Enza Zaden, Netherlands*

