



## 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



### **YONATAN ELKIND**

The Institute of Plant Sciences and Genetics in Agriculture, Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem

#### **Academic**

- B.Sc. in Field Crops and Vegetables, Faculty of Agriculture, Hebrew University of Jerusalem.
- Ph.D. Genetics, The Hebrew University of Jerusalem. Thesis title: "A mixed model for the effects of single gene, polygenes and their interaction on a quantitative trait and its application to tomato softening".
- Postdoctoral fellow, Plant Biology, The Salk Institute for Biological Science, San Diego, CA, USA.

#### **Research activity and interest**

- Genetic analysis of physiological aspects of vegetables development, growth, and production, mainly in Tomato and Pepper.
- Quantitative genetic analysis of many traits and their application to plant breeding.
- The cost of resistance genes in plants.
- Physiology and genetics of Ripening of Pepper fruit.

#### **Breeding Biography**

1980-1987 while doing my PhD I participated in the tomato breeding team led by Prof. Nachum Kedar. A co-breeder of some game changer varieties including Daniela, Rita, Josefina, Br84, LSL varieties for USA and Mexico

1989-now head of research team developed hybrid peppers with broad ecological adaptability that are suitable for cultivation in passive greenhouses and in mild winter areas. These novel hybrids produce a high yield of high quality fruits characterized by firm texture, good shape and good storage both on the vine and after harvest. The breeding was conducted in cooperation with Zeraim Gedera (a subsidiary of Syngenta) which markets the seeds in Israel and worldwide. My game changing varieties include Cannon and Melchor, which have been for the last 18 years market leaders at their segments in Arava –Israel and Almeria-Spain, respectively. Additional important varieties are Merkave, Tundra, Shir, Sobek, Butaros, Carlo-Magno and many others that were bred in collaboration with Zeraim Gedera, and

Since 2018 my breeding activity continues in collaboration with Pilpel Seeds.





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