



"HARNESSTOM partners participation at the International Solanaceae Genomics Meeting SOL 2022"

The XVII Solanaceae Genomics SOL2022 meeting took place in Thessaloniki, Greece, from the 1st to the 5th of November 2022 after 3 years of interruption due to the COVID19. The SOL genomics is the largest meeting on *Solanaceae* and following the tradition it covered the latest advances produced on all aspects of the family Solanaceae from a genomics perspective. As the family includes not just tomato, but also other important crops like eggplant, potato, pepper, petunia and tobacco, it has been a nice opportunity for HARNESSTOM partners to outreach and interact with other members of the *Solanaceae* community and to exchange ideas and discuss how to address common challenges.

A large representation of the HARNESSTOM partnership participated in SOL2022 many of them as invited speakers:

Dani Zamir (*invited talk*)

(The Hebrew University of Jerusalem, Jerusalem, Israel)
Epistatic QTL for yield heterosis in tomato

Aureliano Bombarely (*invited talk*)

(Instituto de Biología Molecular y Celular de Plantas (UPV-CSIC, València, Spain)
Insights of the complex origin of the *Nicotiana* genus, section *Suaveolentes*

Mathilde Cause (*invited talk*)

(INRAE, UR1052, Centre de Recherche PACA, Montfavet, France)
Genetic control of tomato fruit quality: from GWAS to breeding

Mondher Bouzayen (*invited talk*)

(INP-Toulouse, GBF group, UMR5546 LRSV CNRS/UPS/INPT, Castanet-Tolosan, France)
Uncoupling fruit ripening and softening: looking for the Holy Grail

Julien Pirrello (*invited talk*)

(INP-Toulouse, GBF group, UMR5546 LRSV CNRS/UPS/INPT, Castanet-Tolosan, France)
Transition to ripening in tomato fruit needs genetic reprogramming initiated in gel tissue

Guojian Hu (*selected talk*)

(Ecole Nationale Supérieure Agronomique, UMR, INRA-INP/ENSAT Castanet-Tolosan, France)
The auxin-responsive transcription factor SIDOF9 regulates inflorescence termination in tomato

Giovanni Giuliano (*Invited talk*)

(ENEA, Rome, Italy)
The genetic architecture of fruit quality and nutritional traits in Solanaceous crops





Antonio Granell (Invited talk)

(CSIC, Universitat Politècnica de València, València, Spain)

Biofortified tomatoes with increased levels of flavonoids, crocins and branched-chain amino acids

Clara Pons (invited talk)

(CSIC-UPV, València, Spain)

Preharvest conditions affecting the fruit quality of Mediterranean long shelf-life winter tomato

In addition to the oral presentation several poster communications were made by HARNESSTOM partners:



Photograph 1: Mondher Bouzayen (INPT Partner) during his presentation at the SOL2022 meeting inThessaloniki



Photograph 2: Mathilde Causse (INRAe partner) during her invited talk at the SOL2022 meeting in Thessaloniki





Photograph 3: Dani Zamir (HUJI Partner) during his invited talk at the SOL2022 meeting in Thessaloniki

