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# The genetic architecture of fruit quality and nutritional traits in Solanaceous crops

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► **To cite this version:**

Giovanni Giuliano, Véronique Lefebvre, GtoPSOL Consortium. The genetic architecture of fruit quality and nutritional traits in Solanaceous crops. XVII SOLANACEAE2022 International Conference on the Plant Family of Solanaceae, Nov 2022, THESSALONIKI, Greece. hal-04136950

**HAL Id: hal-04136950**

**<https://hal.inrae.fr/hal-04136950v1>**

Submitted on 21 Jun 2023

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XVII SOLANACEAE2022 International Conference on the Plant Family of Solanaceae November 1-5, 2022, THESSALONIKI, GREECE

INVITED TALK

The genetic architecture of fruit quality and nutritional traits in Solanaceous crops

Giovanni Giuliano and the G2P-SOL consortium

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In the frame of the G2P-SOL project, core collections representative of the worldwide genetic diversity of the four major Solanaceous crops (tomato, pepper, eggplant, potato) were created. These collections were phenotyped and subjected to metabolic profiling. Hundreds of novel metabolites have been identified and quantified, and QTLs have been mapped, both in the core collections and in segregating populations. The genetic architecture of some of these traits will be discussed in detail. Key words: Tomato, eggplant, pepper, nutritional traits

Acknowledgment: Work supported by the European Union's Horizon 2020 Program under grant agreements No 677379 (G2P-SOL) and 101000716 (Harnesstom).