

Curriculum Vitae et Studiorum (brief version)

Dr. Laura Bassolino

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Main areas of scientific interest: Dr. Bassolino has experience in plant and molecular biology for functional genomic studies in horticultural and industrial crops (*Solanaceae*, *C. sativa*, *E. sativa*). Her research deals mainly with fruit quality traits, transcriptional regulation of plant secondary metabolites synthesis (e.g. phenols), metabolic engineering strategies to increase phytochemicals and plant responses to biotic and abiotic stresses.

Academic education

- 2013 PhD in Agrobiosciences (genomics and crop production), Sant'Anna School of Advanced Studies, Pisa
- 2009 MSc Degree in Molecular and Cellular Biology (*cum laude*, Alma Mater Studiorum University of Bologna)
- 2007 BSc in Biological Science (*cum laude*, Alma Mater Studiorum University of Bologna)

Job positions

- 01/01/2019 - present Permanent Researcher, CREA-CI, Bologna
- 10/10/2017 - 31/12/2018 PostDoc, CREA-GB, M. Lombardo (LO)
- 13/03/2017 - 31/07/2017 Fixed-term Researcher, CREA-AN, Roma
- 04/05/2015 - 11/03/2017 PostDoc, CREA-GB (formerly CRA-ORT), M. Lombardo (LO)
- 1/02/2013 - 31/01/2015 PostDoc, CRA-FSO, Sanremo (IM)

Membership in Scientific Societies and Committees: Member of the Italian Society of Agricultural Genetics - SIGA; Italian Society for Horticultural Science – SOI, Member of the Scientific Committee of European Industrial Hemp Association – EIHA; Member of the National Order of Biologists - ONB

Scientific awards

- 2016. SOI Young Researchers Award for the best scientific publication: Bassolino et al., 2013 "The specific accumulation of anthocyanin skin in tomatoes extends the shelf life". *New Phytologist* 200: 650-655. Awarding entity: Italian Society for Horticultural Science (SOI)
- 2016. CREA Young Researchers Award in memory of Silvia Pacifici (Award for the best publication produced from 2014 to 2016 in the micropropagation sector); Bassolino et al., 2015 "Tissue culture and aromatic profile of essential oil in dolomitic sage". *Codd. Plant Cell, Tissue and Organ Culture (PCTOC)* DOI: 10.1007 / s11240-014-0681-3. Awarding entity: CREA-Council of Agricultural Research and Economics.

Recent projects

- 2020-2023. ERA HDHL KH FNS SYSTEMIC: An integrated approach to the challenge of sustainable food systems: adaptive and mitigatory strategies to address climate change and malnutrition. EoI N. 967 CLIMAQUALITEC, founded by Mipaaf. Role: Task 2.1 co-leader



- 2020-2023. SUSINCER - SUStainable use of bioactive compounds from brassicaceae and solanaceae wastes for CERreal crop protection, founded by Fondazione Cariplo (BANDI 2019. RICERCA SCIENTIFICA ECONOMIA CIRCOLARE: RICERCA per un FUTURO SOSTENIBILE). Role: WP1 co-leader
- 2021-2023. CAMED - CAnnabis MEDica nazionale: innovazione e potenziamento della produzione di materiale vegetale di Cannabis terapeutica per il fabbisogno Nazionale e ricerca per la costituzione di nuove varietà ad uso farmaceutico, founded by Mipaaf. Role: Participant to WP3
- 2019-2022. PON ARS01_00668 - UNIHEMP "Use of industrial hemp biomass for energy production and new biochemicals", founded by MUR. Role: participant to OR2

Scientific production: ORCID: 0000-0002-7242-0499 H-index 11; total publications: 27; total citations: 545 (June 2022, Scopus)

Five Selected Publications (last ten years).

1. **Bassolino, L.**; Petroni, K.; Polito, A.; Marinelli, A.; Azzini, E.; Ferrari, M.; Ficco, D.B.M.; Mazzucotelli, E.; Tondelli, A.; Fricano, A.; Paris, R.; García-Robles, I.; Rausell, C.; Real, M.D.; Pozzi, C.M.; Mandolino, G.; Habyarimana, E.; Cattivelli, L. Does Plant Breeding for Antioxidant-Rich Foods Have an Impact on Human Health? *Antioxidants* 2022, 11, 794. <https://doi.org/10.3390/antiox11040794>
2. **Bassolino, L.**; Buti, M.; Fulvio, F.; Pennesi, A.; Mandolino, G.; Milc, J.; Francia, E.; Paris, R. In Silico Identification of MYB and bHLH Families Reveals Candidate Transcription Factors for Secondary Metabolic Pathways in Cannabis sativa L.. *Plants* 2020, 9, 1540, doi: 10.3390/plants9111540
3. Moglia, A.; Florio, FE.; Iacopino, S.; Guerrieri, A.; Milani, AM.; Comino, C.; Barchi, L.; Marengo, A.; Cagliero, C.; Rubiolo, P.; Toppino, L.; Rotino, GL.; Lanteri S.; **Bassolino, L.** Identification of a new R3 MYB type repressor and functional characterization of the members of the MBW transcriptional complex involved in anthocyanin biosynthesis in eggplant (*S. melongena* L.). *PLoS One* 2020, 15(5):e0232986. doi: 10.1371/journal.pone.0232986.
4. Barchi, L.; Pietrella, M.; Venturini, L.; Minio, A.; Toppino, L.; Acquadro, A.; Andolfo, A.; Aprea, G.; Avanzato, C.; **Bassolino, L.**; Comino, C.; Dal Milin A.; Ferrarini, A.; Chappell-Maor, L.; Portis, E.; Reyes-Chin-Wo, S.; Rinaldi, R.; Sala, T.; Scaglione, D.; Sonawane, P.; Tononi, P.; Almekias-Siegl, E.; Zago, E.; Ercolano, M.; Aharoni, A.; Delledonne, M.; Lanteri, S.; Rotino GL. A high-quality eggplant genome sequence reveals key events in Solanaceae evolution. *Scientific Reports* 2019. doi:10.1038/s41598-019-47985-w
5. **Bassolino, L.**; Zhang, Y.; Kiferle, C.; Schoonbeek, HJ.; Perata, P.; Martin, C. Skin specific accumulation of anthocyanins in tomato extends shelf life. *New Phytologist* 2013.; 200:3.; 650-655.; doi: 10.1111/nph.12524

Bologna, June 7, 2022

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