**Short *Curriculum Vitae* - Nicola Pecchioni**

Education

• 1994 Specialization in Plant Biotechnology (with full marks, University of Pisa)

• 1990 Degree in Agricultural Sciences (with full marks, Catholic University of the Sacred Heart, Piacenza)

Job positions

• 01/07/2017-present: Director, Research Centre for Cereal and Industrial Crops, CREA - Council for Agricultural Research and Economics, Foggia

• 01/11/2014-30/04/2017: Director, Cereal Research Centre, CREA - Council for Agricultural Research and Economics, Foggia

• 2014: Ad acta Commissioner with functions of Director, Department of Life Sciences, University of Modena and Reggio Emilia (UNIMORE)

• 2002-present: (on temporary leave) Associate Professor of Agronomy and Herbaceous Crops, University of Modena and Reggio Emilia, Reggio Emilia;

• 1996-2002: Researcher, Istituto Sperimentale per la Cerealicoltura, S.O.P Fiorenzuola d’Arda (PC)

Committees, prizes and awards

• 2018 - present: Representative CREA at the Permanent Technical Board Maize, Mipaaft

• 2017 - present: CREA Representative National research Platform Phen-Italy

• 2017 - present: Editorial Board Frontiers in Plant Science

• 2016 - present: Wheat Initiative, member

• 2011 - present: Editorial Board Euphytica

• 2009: Founder of the Interdepartmental Center for Genomic Research, CeIRG, UNIMORE

• 1991: "Silvio Bidallo" national thesis award

Constitutions and patents innovations

- Breeder of the spring two-row barley variety "Doria" (2006), the first barley variety established in Italy by means of a MAS (Marker-Assisted Selection) scheme;

- Co-owner (for 10%) as University of Modena and Reggio Emilia of Registered Trademarks "Tomantho" and "SunBlack", result of the research project PRIN-2006: "The TomANTHO project: increasing the anthocyanin content in tomato fruits";

- Co-owner (5%) as University of Modena and Reggio Emilia of the SunBlack anthocyanin tomato varieties called SOLENERO and SOLENERO MINI.

Developed Software and Databases

- Creator of the CEREALAB database, in English (www.cerealab.org), the only public database that bringed together genotypic and phenotypic data on cereals (wheat, barley, rice), to provide an operational tool for the planning and implementation of Assisted Breeding activities, to researchers and public and private breeders;

- co-creator of the proprietary database of the CREA-SCS (today CREA-DC) for the management of lines and hybrids of corn, the search for complex queries of morphological and genetic characters, and for the identification of the different genotypes.

Membership In Scientific Societies

- Member of the Italian Agronomy Society; of the Italian Society of Agricultural Genetics; of the EFB European Federation of Biotechnology;

- Member of the Executive Council of the Italian Society of Agricultural Genetics (2011-2013).

Referee Activities for International Journals

He has been and still is a Reviewer for 30 different international journals in the field of plant genetics and Plant Science.

Referee Activities of Projects and Research Products

Evaluator of National projects (University of Verona; MiUR projects FIRB, FIR and PRIN).

Evaluator of International Projects, from 2006 to present, for 8 research funding agencies

Evaluator of Italian Research Products, VQR 2011-2014

Recent projects

• 2019-2022 PON ARS01\_00668 - UNIHEMP "Use of industrial hemp biomass for energy production and new biochemicals", K € 999

• 2018-2021 PON ARS01\_00606 - COMETA “Indigenous Mediterranean crops and their enhancement with advanced green chemistry technologies”, K € 660

• 2017-2022 SolACE Solutions for improving Agroecosystem and Crop Efficiency for water and nutrient use, H2020, SFS-01-2016, K € 390

• 2014-2017 FCRMO BIO.VI.VI., K € 125

• 2011-2014 PON01\_01145 ISCOCEM, K € 121

• 2009-2011 Mi.P.A.F. PHYSICAL MAP 5A physical mapping of the grain chromosome 5A K € 87

• 2008-2010 R.E.R. High technology network, SITEIA, K € 132

Scientific production: ORCID: 0000-0003-1704-2541 H index 24; total publications: 102; total citations: 2.431 (May 2019, Scopus)

Five Selected Publications

1. Maccaferri M., et al. (2019). Durum wheat genome highlights past domestication signatures and future improvement targets. Nature Genetics, 1546-1718 - https://doi.org/10.1038/s41588-019-0381-3
2. Mangini G., A. Gadaleta, P. Colasuonno, I. Marcotuli, A.M. Signorile, R. Simeone, P. De Vita, A.M. Mastrangelo, G. Laidò, N. Pecchioni, A. Blanco (2018). Genetic dissection of the relationships between grain yield components by genome-wide association mapping in a collection of tetraploid wheats. PLoS ONE 13(1): e0190162. <https://doi.org/10.1371/journal.pone.0190162>
3. Francia E., C. Morcia, M. Pasquariello, V. Mazzamurro, J.A. Milc, F. Rizza, V. Terzi, N. Pecchioni (2016). Copy number variation at the HvCBF4–HvCBF2 genomic segment is a major component of frost resistance in barley. Plant Mol Biol 92:161–175. DOI 10.1007/s11103-016-0505-4
4. Comadran J. Kilian B., Russell J., Ramsay L., Stein N., Ganal M., Shaw P., Bayer M., Thomas W., Marshall D., Hedley P., Tondelli A., Pecchioni N., Francia E., Korzun V., Walther A. and Waugh R. (2012) Natural variation in a homolog of Antirrhinum CENTRORADIALIS contributed to spring growth habit and environmental adaptation in cultivated barley. Nature Genetics 44(12): 1388-1392
5. Francia E, A Tondelli, F Rizza, FW. Badeck, O Li Destri Nicosia, T Akar, S Grando, A Al-Yassin, A Benbelkacem, WT.B. Thomas, F van Eeuwijk, I Romagosa, A.M Stanca, N Pecchioni (2011). Determinants of barley grain yield in a wide range of Mediterranean environments. Field Crops Research 120(1): 169-178.