



Prof. Bruno Mezzetti

Position: Full Professor

Name of institute: Department of Agricultural, Food and Environmental Sciences – Università Politecnica delle Marche

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- UFFICIALE della Repubblica Italiana, conferito dal Presidente Mattarella, controfirmato Presidente Draghi, Aprile 2021.
- Highly Cited Researcher Clarivate 2020.
- Highly Cited Researcher Web of Science 2019.
- Full Professor in Fruit Crop Breeding and Biotechnology (AGR03), Department of Agricultural, Food and Environmental and Crop Science (D3A), Marche Polytechnic University – Ancona (IT).
- Director of the PhD program in Agricultural, Food and Environmental and Crop Science, Marche Polytechnic University (<http://www.d3a.univpm.it/>).
- Member of the Academic Senate of the Marche Polytechnic University, from 2009 to 2015.
- Director of the Department of Agricultural, Food and Environmental and Crop Science, Marche Polytechnic University (<http://www.d3a.univpm.it/>), from 2011 to 2015.
- Director of the Department of Agricultural and Environmental Sciences, Marche Polytechnic University (<http://www.d3a.univpm.it/>), from 2009 to 2010.
- Chairman of the first and second level degree courses in Agricultural Science and Technology, 2009 to 2011
- Local Coordinator of the UNIDO Long Distance Second Level GMO Biosafety, from 2006 to 2017.
- Faculty Delegate of the ERASMUS program, from 2001 to 2011.
- In charge of teaching courses on Fruit culture, breeding and biotechnology.

Academic career

- 1988 Degree in "Agricultural Science - Crop Production" at the University of Bologna.
- 1992 Ph.D. in 'Fruit Crop Production', University of Bologna.
- 1993 Research contract for the EU project "Expanding the adaptation and production area of Rubus in Europe" at University of Ancona, Italy.
- 1994 – Research Position at University of Ancona.
- 2001 – Associate Professor at Università Politecnica delle Marche, Ancona, IT.
- 2006 – Full Professor at Università Politecnica delle Marche, Ancona, IT, Scientific Sector AGR03 Arboriculture.

International research training and activities

- 1990 - 1992 eighteen months of research stage, included in the Ph.D. program, at the USDA-ARS Fruit Laboratory and Plant Molecular Biology Laboratory (Beltsville MD-USA).
- Visiting scientist at CPRLO-DLO, Plant Development Lab., Wageningen (NL); HRI East Malling (UK).

- Other periods of stage, research activities and invited professor in United Kingdom, Chile, Senegal, Taiwan, Kenya, China.

Scientific responsible for the following National Projects:

1. MiPAF 'Fruit cultivars evaluation: stone fruits, pear and berries'.
2. MiPAF 'Fruit breeding and genetic improvement of strawberry and plum'.
3. CNR - Biotechnology II: Expression pattern of MADS-box transcription factors and their use to engineer parthenocarpic transgenic plants in fruit plants.
4. MURST 40%: rolC genes in strawberry and their effect on biochemical and morphological plant development.
5. MIUR-Prin 2002 project 2002078882_002. Improved fruit productivity and quality in strawberry and raspberry by using the DefH9-iaaM gene and its derivatives.
6. MIUR-Firb 2002 project RBAU01JTHS – Studies on plant fertility and fruit development in DefH9-iaaM GM strawberry, raspberry and table grape.
7. MIUR- PRIN 2003 Sustainable management of the rootstock/scion interaction system in the mid-Adriatic growing conditions and effects on plant development, fruit quality and nutritional value.
8. MIUR- PRIN 2005 Study of qualitative and nutritional changes in stone fruit induced by the rootstocks, the plant architecture and the environment.
9. 2007 LR37 Local vegetable Biodiversity
10. 2009 Research contract BARILLA spa, *RED FRUIT* at high nutritional value.
11. 2009 Research contract ASSAM – To promote local horticultural production and diversification.
12. 2010 Minister of Agriculture OIGA DM 18829/7818 – TIPICAMEDIOADRIATICO – In vitro culture and nursery propagation techniques for the valorization of local fruit varieties.
13. 2011 Regione Sicilia – SICILBERRY 2 Crop diversification in Ragusa e Siracusa area with the introduction of out of season berry production (Project coordinator).
14. 2012 Minister of University PRIN12 – Molecular strategies for the induced resistance to PPV virus in peach and apricot (Project coordinator).
15. 2013 Minister of University MIUR – CULTURE 6/2000 – D.D. 369 del 26/06/2012 art.16 comma 5. Progetto ACPR12_00410, Laboratory for agriculture biotechnology: innovation and risk assessment (Project coordinator).
16. 2016 ENOTRIA: mutagenesi e biotecnologie per resistenze genetiche nel vitigno Glera (Project coordinator).
17. 2016 AMPELOS: mutagenesi e biotecnologie per resistenze genetiche nei vitigni Chardonnay e Merlot (Project coordinator).
18. 2019 IVI: mutagenesi e biotecnologie per resistenze genetiche nei vitigni Lambrusco e Ancellotta (Project coordinator).
19. 2019 PSR Regione Marche: Highops_28178: Adozione di tecniche innovative per la coltivazione e propagazione del luppolo nelle Marche.
20. 2019 MIUR-PRIN2017, N. 20173LBZM2, Titolo: Small RNAs and peptides for controlling diseases and development in horticultural plants (Project coordinator).

Scientific responsible of the following EU project:

1. 1996 Scientific and administrative co-ordinator of the EC Project AIR3 PL92-0325 - 'Expanding the adaptation and production of Rubus in Europe'.
2. 1997 National delegate for the W.G. 5 - 'Mechanism and Markers of regeneration and Genetic Stability' of the COST ACTION 822 - 'Development of integrated systems for large-scale propagation of elite plants using in vitro techniques'.
3. 2001 Chairman of the COST Action 836 - 'Toward an Organization of the Integrated Research in Berries: Model for a Strawberry of Quality, in Respect with the Environment Rules and Consumers Requirements'(...Integrated berry production...).

4. 2005 - Chairman EU-COST863 - Euroberry Research: from Genomics to Sustainable Production, Quality & Health (http://cost.cordis.lu/src/action_detail.cfm?action=863)
5. 2006 – Subcontract EU FP6 – FLAVO project. Project subcontractor.
6. 2007 EU DG AGRI-GENRES – GENRES: Berry genetic resource. Project research partner.
7. 2011 Coordinator of the FP7 KBBE EU project EUBerry: The sustainable improvement of European berry production, quality and nutritional value in a changing environment: Strawberries, Currants, Blackberries, Blueberries and Raspberries. Grant Agreement: 265942. Project coordinator.
8. 2013 EuropeAID ACP-EU Co-operation programme in Higher Education EDULINK II 083, Enhancing nutrition and food security through improved capacity of agriculture higher education in East and Southern Africa. Project research partner.
9. 2015 HORIZON 2020-SFS-2015, Project ID 679303-2, GoodBerry: Improving the stability of high-quality traits of berry in different environments and cultivation systems for the benefit of European farmers and consumers. Project research partner.
10. 2016 HORIZON 2020 - COST ACTION 15223 - Project Title: Modifying plants to produce interfering RNA. Project acronym: (iPlanta). Project coordinator.
11. 2018 EIT CLIMATE KIK: Sustainable fruit project (Friendly fruit) (Project partner).
12. 2019 HORIZON2020-PRIMA: Developing new strategies to protect strawberry crop in Mediterranean countries (MEDBERRY) (Project partner).
13. 2021 HORIZON2020-SFS28-1- IA - Grant agreement ID:101000747 BreedingValue - Pre-breeding strategies for obtaining new resilient and added value berries (Project coordinator)

Activities specifically related to GM studies:

- Member of the National Competent Authority for EU Directive 2001/18 and 1829/2003 - Minister of Environment, for the evaluation of risk assessment trials with genetic manipulated plants, 2002-2005
- Member of working group on GMO organized by the National Committee for Biosafety and Biotechnology, 2002.
- Member of the National commission of the Minister of Health for the evaluation of risk assessment trials with genetic manipulated plants. 2000-2001
- Responsible for field trials with GM plants of strawberry, raspberry and table grape, authorised by the National Biotechnology Committee – Minister of Health.
- Participation at the workshop “Biosafety 1. Science and Policy Risk Assessment of Transgenic Organism; a case study approach”, organized by ICGEB, Trieste (IT).

Evaluation and Referees Activity

Member of different evaluation panel for different national and international institutions:

- MIUR – Italian research programs PRIN e FIRB
- MIUR ANVUR – University research evaluation (VQR)
- Eligible member of the committee for the national professorship habilitation (ASN)
- Minister of Agriculture, CRA – member of internal committee for the CRA staff research career.
- Member of different evaluation and referee pannels of the EU DG Research (Marie Curie, FP6 and FP7) and of DG AGRI (GENRES program).
- ANR – Agence Nationale de la Reserche - Blanc programme transnational collaboration bilateral agreement, edition 2012 e 2013.
- The New Zealand Institute for Plant and Food Research Limited.
- The State Treasury – Minister of Science and Higher Education, Poland, Research infrastructure project to be included in the Polish Roadmap for Research Infrastructures.
- Member of the Editorial Board of the Journal Berry Research.
- Referee activities of different International Scientific Journals in the area of horticultural production, breeding biotechnology and fruit nutritional quality.

- Convener of 4 International ISHS Congress, including the berry symposiums organized for the IHC2010 in Lisbon (PT) and IHC2014 in Brisbane (AU).

Member of the following Scientific Societies:

- ISHS - "International Society for Horticultural Science" – Sections: Biotechnology; Fruits.
- IAPTC – 'International Society Plant Tissue Culture'
- SOI - "Italian Horticulture Society", section Fruit-culture, now also member of the directive council.
- SIGA - "Italian Plant Genetic Society".

Awards

- ISHS medal award as convener of the International Symposium on Berries: From Genomics to Sustainable Production, Quality and Health. Lisbon (PT) IHC2010.
- ISHS medal award as convener of the I International Berry Fruit Symposium: Interactions! Local and Global Berry Research and Innovation. Brisbane (AU) IHC2014.

Scientific output

The scientific outputs from all research activities can be summarized with the following results from:

- *Web-of Science*: Total papers= 153, Sum of the times cited= 4552, Average Citation per items 30.87; Sum of time Cited without self-citation=3857, Without self-citations: 2713, **h-index: 35**
https://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=E3gGAdXZJIKKRCb2uYE&page=1&cr_pqid=1&viewType=summary&colName=WOS
- *SCOPUS*: **Total papers=185**. Citations: 5227, total citations by 3260 documents. **h-index: 39**.
<https://www.scopus.com/authid/detail.uri?authorId=6603323795>

Patents and privatives

Patent on methods:

1. Inventori: Navacchi O, Mezzetti B, Zuccherelli G, Spena A. Tipologia: **Invenzioni**. Titolo: Methods for plant propagation and genetic transformation. Patent: IPO 2000A-000305.
2. Inventori *Battino M, Capocasa F., Castellucci M., Ciavattini A., Forbez Hernandez T., Gasparrini M., Giampieri F., Giangiubilo SR, Greco S., Janjusevic M., Mazzoni L., Mezzetti B., Pasquapina C., Soriful I.* Tipologia: **Invenzioni**. Titolo: "estratto concentrato di frutti di fragole con alta capacita' antiossidante per il trattamento e la prevenzione dei leiomiomi uterini e metodo per l'ottenimento dell'estratto". Domanda numero: **102016000089627 (UA2016A006365)**. Data Deposito: 05 settembre 2016. Data di Pubblicazione 06 marzo 2018.

Plant privatives:

1. 2003 1797 06/10/03 *Fragaria × ananassa* Duchesne ex Rozier). Cv. **ADRIA**
2. 2003 1796 06/10/03 *Fragaria × ananassa* Duchesne ex Rozier) Cv. **SVEVA**
3. 2007 2925 19/12/07 *Prunus persica* Cv. **CONCETTINA**
4. 2011 1275 16/05/11 *Fragaria × ananassa* Duchesne ex Rozier) Cv. **ROMINA**
5. 2011 1274 16/05/11 *Fragaria × ananassa* Duchesne ex Rozier). Cv. **CRISTINA**
6. 2019 2655 31/10/2019 *Fragaria × ananassa* Duchesne ex Rozier) Cv. **DINA**
7. 2019 2656 31/10/2019 *Fragaria × ananassa* Duchesne ex Rozier) Cv. **FRANCESCA**
8. 2019 2657 31/10/2019 *Fragaria × ananassa* Duchesne ex Rozier) Cv. **SILVIA**
9. 2019 2654 31/10/2019 *Fragaria × ananassa* Duchesne ex Rozier) Cv. **LAURETTA**