CURRICULUM VITAE

Michela Veronica Landoni

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Education:

2000-2002: Post-doc Fellowship, Department of Biosciences, University of Milano

1996 al 1999: PhD Degree, in Plant biology and crop productivity, Department of Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy, University of Milano

1995-1996: Post-doc Fellowship, Department of Genetics and Microbiology, University of Vienna

1991-1994: PhD Degree in Genetics, Department of Biosciences, University of Milano

1986-1991: Degree in Biology, Department of Biosciences, University of Milano

Research activity:

May 2022- ongoing: Researcher, RTD-b in the research group of Professor Graziano Rossi, Department of Earth and Environmental Sciences of the University of Pavia.

The ongoing research projects are aimed at the conservation, characterization and valorization of traditional cereal and vegetable varieties:

NODES project, funded by the Ministry of University and Research (PNRR): Spoke 7 Secondary Agroindustry (1.12.2022.11.2025). Role: Research Unit scientific coordinator and Research Module Leader

PSR project (Lombardy Region Rural Development Program 2014-2020): “Recovered traditional Lombard Alpine maize (MAISAlpi)”, (Research, characterization and valorisation of traditional Lombard maize varieties). (2022-2024). Role: research unit scientific coordinator.

PSR Notice (Rural Development Program 2014-2020) Lombardy Region “Multiplication, Characterization and conservation in Lombardy of quality RICE seeds intended for organic cultivation (RISOLO)”, (Research, characterization and valorisation of traditional Lombard rice varieties). (2022-2024). Role: Research Unit scientific coordinator

PSR Announcement (Rural Development Program 2014-2020), Lombardy Region “VALOPEPE LOmbarde varieties of PEPErone: biodiversity analysis (VALOPEPE”) (Research, characterization and valorisation of traditional Lombard pepper varieties). (2022-2024). Role: Research Unit Member.

September 2002 - 1 May 2022 member of the Plant Molecular Genetics and Nutrigenomics research group at the Department of Biosciences, University of Milan. The research activity was focused on the genetic and molecular characterization of Arabidopsis thaliana mutants altered in biotic and abiotic stress responses and on the study of the antioxidant power of flavonoids, in particular anthocyanins. In collaboration with the research group of Prof Roberto Pilu (Department of Agricultural and Environmental Sciences - Production, Territory, Agroenergy, University of Milan) the research was aimed at studying developmental mutants and traditional varieties of corn, alongside the production and characterization of new maize cultivars rich in anthocyanins and the characterization of Arundo donax as a potential energy crop.

Member of the Italian Society of Agricultural Genetics (since 2015)

Teaching Activities

From the academic year 2022-2023, Professor of the course Conservation and promotion of plant genetic resources" (6CFU), “Local Horticultural production chains” (2,5 CFU), “Sustainable grass crops” (2CFU) in the International Master's Degree Class LM 69 in Agri- food Sustainability, (Department of Earth and Environmental Sciences, University of Pavia), of which she was coordinator in the academic year 2022-2023.

Member of the PhD Teaching Board of the Department of Earth and Environmental Sciences (starting from the 39th cycle).

National Scientific Qualification: 2nd level Professor, Disciplinary Scientific Group 07/AGRI-06, Agricultural and Forest Genetics, Chemistry and Pedology (25.10.2018)

Publications In Peer-Reviewed Journals (last 10 years)

Ghidoli M., Geuna F., De Benedetti S., Frazzini S.,Landoni M., Cassani E., Scarafoni A., Rossi L., Pilu, R. Genetic study of Camelina sativa oilseed crop and selection of a new variety by the bulk method. Front. Plant Sci., 2024, 15, https://doi.org/10.3389/fpls.2024.1385332

Landoni M., Bertoncini A., Ghidoli M., Rossi G., Cassani E., Locatelli S., Balconi C., Pilu R. PGRFA Management of Outcrossing Plants Propagated by Seed: From On-Farm to Ex Situ Conservation and Some Italian MaizeCase Studies. Agronomy 2024, 14, 1030. https://doi.org/10.3390/agronomy14051030

Magarini A.; Colombo F.; Cassani E.; Ghidoli M.; Landoni M.; Sangiorgio S.; PiluR. The role of husk traits in maize susceptibility to Fusarium verticillioides: A multi-location study in northern Italy. Food Energy Secur. 2024;13:e537. https://doi.org/10.1002/fes3.537

Landoni, M.; Bertagnon, G.; Ghidoli, M.; Cassani, E.; Adani, F., Pilu, R. Opportunities and Challenges of Castor Bean (Ricinus communis L.) Genetic Improvement. Agronomy 2023, 13,2076. https://doi.org/10.3390/agronomy13082076

Ghidoli M., Frazzini S., De Benedetti S., Sangiorgio S., Landoni M., Scarafoni A., Rossi L, Pilu R. Constitution of a Camelina sativa L. synthetic population and agronomic comparison between spring and winter cultivation in North Italy. Agronomy 2023, 13, 1562. https://doi.org/10.3390/agronomy13061562

Colombo F., Franguelli N., Licheri G., Ghidoli M., Cassani E., Castelli L., Pasquali M., Bresciani A., Marti A., Dell'Anno M., Rossi L., Landoni M., Pilu R. Agriculture in Marginal Areas: Reintroduction of Rye and Wheat Varieties for Breadmaking in the Antrona Valley. Agronomy 2022, 12, 1695. https://doi.org/10.3390/agronomy12071695

Landoni M., Cassani E., Ghidoli M., Colombo F., Sangiorgio S., Papa G., Adani F., Pilu R. (2022). Brachytic2 mutation is able to counteract the main pleiotropic effects of brown midrib3 mutant in maize. Scientific Reports 12, 2446.

Cocetta G., Landoni M., Pilu R., Repiso C., Nolasco J., Alajarin M., Ugena L., Levy CCB., Scatolino G., Villa D., Ferrante A. (2022). Priming Treatments with Biostimulants to Cope the Short-Term Heat Stress Response: A Transcriptomic Profile Evaluation. Plants Volume 11, 1130

Sangiorgio S, Colombo F., Giupponi L., Landoni M., Ghidoli M., Cassani E., Pilu R. Ancient mountain maize varieties: the inheritance of the pointed character and their characteristics. Agronomy 2021, 11, 2295. https://doi.org/10.3390/ agronomy11112295

Ghidoli M., Colombo F., Sangiorgio S., Landoni M., Giupponi L., Nielsen E., Pilu R. (2021). Food Containing Bioactive Flavonoids and Other Phenolic or Sulfur Phytochemicals With Antiviral Effect: Can We Design a Promising Diet Against COVID-19? Frontiers in Nutrition 817, 661331.

Landoni M., Scapin A., Cassani E., Borlini G., Follador A., Giupponi L., Ghidoli M., Hejna M., Rossi L., Pilu R. Comparison among four maize varieties in conventional and organic cultivation (2020) Maydica 65, M27.

Danelli T., Marina L., Savona M., Landoni M., Adani, F., Pilu. R. Genetic improvement of Arundo donax L.: opportunities and challenges. (2020) Plants 9, 1584.

Landoni M., Puglisi D., Cassani E., Borlini G., Brunoldi G., Comaschi C., Pilu R. (2020) Phlobaphenes in maize kernel modify pericarp thickness and fumonisins accumulation. Scientific Reports 10,1417.

Cominelli E., Galimberti M., Pongrac P., Landoni M., Losa A., Paolo D., Daminati M. G., Bollini R., Karen C., Vogel-Mikuš K., Sparvoli F. (2020) Calcium redistribution induces hard to cook phenotype and PHA-L lectin thermal stability in low phytic acid 1 common bean mutant seeds. Food Chemistry 321;126680.

Borlini G., Rovera C., Landoni M., Cassani E., Pilu R. (2019). lpa1-5525: a new lpa1 mutant isolated in a mutagenized population by a novel non-disrupting screening method. Plants 8, 209. doi:10.3390/plants8070209.

Danelli T., Cantaluppi E., Tosca A., Cassani E., Landoni M., Bosio S., Adani F., Pilu R. (2019). Influence of clonal variation on the efficiency of A. donax propagation methods". Journal of Plant Growth Regulation https://doi.org/10.1007/s00344-019-09947-4.

Puglisi D*., Landoni M*., Cassani E., Toschi I., Lucchini G., Cesari V., Borlini G., Scapin A., Pilu R. (2018) Traditional farmers' varieties: a valuable source of genetic variability for biofortification programs. Maydica, 63, 1-10. *These authors contributed equally to this work.

Cassani E., Puglisi D., Cantaluppi E., Landoni M., Giupponi L., Giorgi A., Pilu R. (2017). Genetic studies regarding the control of seed pigmentation of an ancient European pointed maize (Zea mays L.) rich in phlobaphenes: the "Nero Spinoso" from the Camonica valley. Genetic Resources and Crop Evolution, 64, 761-773.

Cantaluppi E., Manzi S., Egal A. A., Puglisi D., Cassani E., Toschi I., Cesari V.T., Landoni M., Scapin A., Pilu R. (2017). Nutritional and phenotypical characterization of two South African maize (Zea mays L.) varieties sampled in the Qwa-Qwa region. Maydica, 62, 1-10.

Cantaluppi E., Cassani E., Puglisi D., Corno L., Munaro M., Landoni M., Adani F., Pilu R. (2015). Study on the inflorescences of Arundo donax L. clones sampled in Italy. Brazilian Journal of Botany 39(1)275-285.

Lago C., Landoni M., Cassani E., Cantaluppi E., Doria E., Nielsen E., Giorgi A., Pilu R. (2015). Study and characterization of an ancient European flint white maize rich in anthocyanins: Millo Corvo from Galicia. PLoS One 2015 May 11;10(5):e0126521. doi: 10.1371/journal.pone.0126521

Lago C., Landoni M., Cassani E., Atanassiu S., Canta¬luppi E., Pilu R. (2014). Development and characterization of a coloured sweet corn line as a new functional food. Maydica 59, 191-200.

Lago C., Cassani E., Zanzi C., Landoni M., Trovato R., Pilu R. (2014). Development and study of a maize cultivar rich in anthocyanins: coloured polenta, a new functional food. Plant Breeding 133, 210-217.

Pilu R., Cassani C., Landoni M., Cerino Badone F., Passera A., Cantaluppi E., Corno L., Adani F. (2014) Genetic characterization of an Italian Giant Reed (Arundo donax L.) clones collection: exploiting clonal selection. Euphytica 196, 169-181.

Bibliometrical Indicators (28/05/2024):

Scopus: 45 articles; Total number of citations: 827; H-index: 19

Pavia, 25/05/2024

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