

Attachment 'C'

University Academic Curriculum Vitae

Personal information Name: Mauro Maver
Nationality: Italian
E-Mail: mauromaver@gmail.com

Education since leaving school

- 2020 – PhD in Mountain Environment and Agriculture, Free University of Bolzano (Italy)
- 2015 – Master Degree in Plant, Food and Agro-Environmental Biotechnology, Università degli studi di Milano (Italy)
- 2013 – Bachelor Degree in Plant, Food and Agro-Environmental Biotechnology, Università degli studi di Milano (Italy)

Present appointment

- Assegnista di Ricerca at the Competence Center of Plant Health
- February 2021
- Free University of Bolzano-Bozen

Chronological list of all previous employments (each with job title, starting and finishing dates, level, employer, responsibilities)

Professional experience

From / to	Job title	Name of academic Institution	Academic level	responsibilities
01/07/16 - 31/08/16	Strategie per una nutrizione sostenibile della vite allo scopo di migliorare la produzione e la biodiversità del suolo	Free University of Bolzano-Bozen	Post-graduate	Technical support in plant growth and plant sampling with grapevines plants
01/09/2016 – 31/10/2016	The role of nutrient availability on fruit quality parameters: molecular and chemical evaluation of strawberry fruits	Free University of Bolzano-Bozen	Post-graduate	Technical support in plant growth and plant sampling with strawberry plants
1/10/2019 – 30/09/2020	Rhizosphere processes affect copper bioavailability in vineyard soils – RHIZOPRO	Free University of Bolzano-Bozen	Post-Doc	Evaluation of Copper toxicity in grapevine rhizosphere in rhizoboxes

Other academic responsibilities

- Teaching Assistant in “Biochemistry and physiology of agricultural plants” course II semester, Bachelor in Agricultural and Agro-environmental Sciences, AA 2018-2019.
- Teaching Assistant in “Biochemistry and physiology of agricultural plants” course II semester, Bachelor in Agricultural and Agro-environmental Sciences, AA 2019-2020.
- Teaching Assistant in “Chemistry of fertilizers and mineral nutrition of grapevine” course I semester, Master in Viticulture, Enology and Wine Marketing, AA 2019-2020.
- Teaching Assistant in “Mineral Nutrition” course I semester, Master in Horticultural Science, AA 2019-2020.
- Teaching Assistant in “Biochemistry and physiology of agricultural plants” course II semester, Bachelor in Agricultural and Agro-environmental Sciences, AA 2021-2022.

Memberships

Member of “Società Italiana di Chimica Agraria (SICA)” since September 2017.

Publications

- Vigani G, Faoro F, Ferretti AM, Cantele F, Maffi D, Marelli M, **Maver M**, Murgia I, Zocchi G. (2015). Three-Dimensional Reconstruction, by TEM Tomography, of the Ultrastructural Modifications Occurring in *Cucumis sativus* L. Mitochondria under Fe Deficiency. PLoS ONE 10(6): e0129141. doi:10.1371/journal.pone.0129141
- Valentinuzzi, F., **Maver, M.**, Fontanari, S., Mott, D., Savini, G., Tiziani, R., Pii, Y., Mimmo, T. and Cesco, S. (2018). Foliar application of potassium-based fertilizer improves strawberry fruit quality. Acta Hortic. 1217, 379-384, DOI: 10.17660/ActaHortic.2018.1217.48
- Vigani G, Pii Y, Celletti S, **Maver M**, Mimmo T, Cesco S, Astolfi S. (2018). Mitochondria dysfunctions under Fe and S deficiency: Is citric acid involved in the regulation of adaptive responses? Plant Physiology and Biochemistry. Plant Physiology and Biochemistry, Volume 126, 2018, Pages 86-96, ISSN 0981-9428, doi: 10.1016/j.plaphy.2018.02.022
- Marastoni, L., Pii, Y., **Maver, M.**, Valentinuzzi, F., Cesco, S., & Mimmo, T. (2019). Role of *Azospirillum brasilense* in triggering different Fe chelate reductase enzymes in cucumber plants subjected to both nutrient deficiency and toxicity. Plant physiology and biochemistry, 136, 118-126. doi: 10.1016/j.plaphy.2019.01.013
- **Maver M**, Miras-Moreno B, Lucini L, Trevisan M, Pii Y, Cesco S, Mimmo T. (2020). New insights in the allelopathic traits of different barley genotypes: Middle Eastern and Tibetan wild-relative accessions vs. cultivated modern barley. PLoS ONE 15(4):e0231976 doi: 10.1371/journal.pone.0231976.
- Kolega, S., Moreno, B. M., Buffagni, V., Lucini, L., Valentinuzzi, F., **Maver, M.**, & Cesco, S. (2020). Nutraceutical profiles of two hydroponically grown sweet basil cultivars as affected by the composition of the nutrient solution and the inoculation with *Azospirillum brasilense*. Frontiers in Plant Science, 11, 1683.
- **Maver M**, Escudero-Martinez C, Abbott J, Morris J, Hedly PE, Mimmo T & Bulgarelli D. (2021). Applications of the indole-alkaloid gramine modulate the assembly of individual members

of the barley rhizosphere microbiota. PeerJ - 10.7717/peerj.12498

- Bouaicha O, Tiziani R, **Maver M**, Lucini L, Miras-Moreno B, Zhang L, Trevisan M, Cesco S, Borruso L & Mimmo T. (2022) Plant species-specific impact of polyethylene microspheres on seedling growth and the metabolome. Science of the Total Environment - 10.1016/j.scitotenv.2022.156678
- Escudero-Martinez C, Coulter M, Alegria Terrazas R, Foito A, Kapadia R, Pietrangelo L, **Maver M**, Sharma R, Aprile A, Hedley PE, Maurer A, Pillen K, Naclerio G, Mimmo T, Barton GJ, Waugh R, Abbott J & Bulgarelli D. (2022) Identifying plant genes shaping microbiota composition in the barley rhizosphere. Nature Communications - 10.1038/s41467-022-31022-y
- **Maver M**, Trevisan F, Miras-Moreno B, Lucini L, Trevisan M, Cesco S & Mimmo T. (2022). The interplay between nitrogenated allelochemicals, mineral nutrition and metabolic profile in barley roots. Plant and Soil - 10.1007/s11104-022-05553-8

Further data

Conferences:

- Vigani G, Faoro F, Ferretti AM, Cantele F, Maffi D, Marelli M, *Maver M*, Murgia I, Zocchi G (2014). Three-dimensional reconstruction, by TEM tomography, of the ultrastructural modifications occurring in *Cucumis sativus* mitochondria under Fe deficiency. XVII International Symposium of Iron Nutrition and Interaction in Plants (ISINIP), Gatersleben 6-10 July, Germany
- Vigani G, Pii Y, Celletti S, *Maver M*, Mimmo T, Cesco S, Astolfi S (2016). Ruolo dei mitocondri nel meccanismo di percezione e di trasduzione del segnale da stress nutrizionale in pomodoro. Società Italiana di Chimica Agraria (SICA), Perugia 5-7 October, Italy
- *Maver M*, Pii Y, Bulgarelli D, Cesco S, Mimmo T (2017) The allelopathic potential of gramine in barley. Future IPM 3.0: Towards a sustainable agriculture; 15-20 October 2017, Riva del Garda, Italy.
- Fabio Trevisan, *Mauro Maver*, Davide Bulgarelli, Stefano Cesco, Tanja Mimmo (2019), Characterization of the alkaloid hordenine and its precursors in roots of a modern barley cultivar, First Joint Meeting on Soil and Plant System Sciences (SPSS 2019), Bari 23-26 September, Italy
- Carmen Maria Escudero-Martinez, Rodrigo Alegria-Terrazas, *Mauro Maver*, Laura Pietrangelo, Senga Robertson, Rajiv Sharma, Davide Bulgarelli. IS-MPMI XVIII Congress; 2019/7/17, Glasgow, Scotland, UK.
- *Maver M*, Escudero-Martinez C, Abbott J, Morris J, Hedley P.E, Cesco S, Mimmo T and Bulgarelli D. (2021) The application of the indole-alkaloid gramine shapes the prokaryotic communities thriving at the barley root-soil interface. Second Joint Meeting on Soil and Plant System Sciences (SPSS 2021), Torino 20-23 September, Italy

- *Maver M*, Colmagro A, Unterholzner S, Cesco S, Mimmo T. The roles of brassinosteroids in root architecture and adaptation in *Arabidopsis thaliana* in limiting phosphate conditions. III convegno AISSA#UNDER40, Bolzano 14-15 July, Italy

Seminars:

- Vigani G, Faoro F., Ferretti AM, Cantele F, Maffi D, Marelli M, *Maver M*, Murgia I Zocchi G (2014). Ricostruzione tridimensionale, mediante tomografia elettronica, delle modificazioni ultrastrutturali di mitocondri indotti da una carenza di Fe in *Cucumis sativus*. Società Italiana di Chimica Agraria (SICA), Bolzano 7-9 September, Italy
- Vigani G, Faoro F., Ferretti AM, Cantele F, Maffi D, Marelli M, *Maver M*, Murgia I Zocchi G (2014). TEM tomography reveals a three-dimensional reconstruction of the ultrastructural modifications occurring in *Cucumis sativus* mitochondria under Fe deficiency. European Society of New methods in Agriculture (ESNA), Bolzano 3-6 September, Italy
- *Maver M*, Luoni L., Costa A., Vigani G. (2015). Live Imaging per lo studio delle risposte metaboliche a carenze nutrizionali nelle piante mediante l'espressione di nanosensori mitocondriali. Italian Chapter of the International Humic Substance Society (IHSS) and Società Italiana di Chimica Agraria (SICA), Bologna 16-18 September, Italy

Awards:

- "Award for the best poster" Vigani G, Faoro F., Ferretti AM, Cantele F., Maffi D., Marelli M., *Maver M*., Murgia I., Zocchi G. (2014). Ricostruzione tridimensionale, mediante tomografia elettronica, delle modificazioni ultrastrutturali di mitocondri indotti da una carenza di Fe in *Cucumis sativus*. Società Italiana di Chimica Agraria (SICA), Bolzano 7-9 September, Italy.
- "Award for the best Ph.D. thesis, 2020-2021 edition", released by Società Italiana di Chimica Agraria (SICA)

Language competence

Mother tongue: Italian
Other languages: English (written: good, spoken: good)

Driving license

B licence