

Prof. Dr. Tanja Mimmo

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Main research areas

Tanja Mimmo is full professor of Agricultural Chemistry at the Faculty of Science and Technology, Free University of Bolzano. She is an experienced researcher in the field of Soil Science and Plant Nutrition ranging from basic to applied research for almost 20 years. Her major research topics are a) rhizosphere processes influencing nutrient and metal bioavailability at the soil-root interface; c) rhizodepositions, in particular low molecular weight organic compounds released by roots; d) soil-plant-microorganisms interactions; e) characterization of byproducts during biomass pyrolysis and their possible use for agronomic purposes. She is author of more than 100 scientific papers, 2 book chapters and over 150 congress contributions. Tanja Mimmo has supervised > 20 bachelor thesis, 5 Master thesis and 5 PhD thesis.

Description of academic career

- Since 2020 **Director of the Competence Centre for Plant Health**, Free University of Bolzano, Italy
- Since 2019 **Full Professor** in Agricultural Chemistry, Faculty of Science and Technology, Free University of Bolzano
- 2015 – 2019 **Associate Professor** in Agricultural Chemistry (ital. SSD AGR/13), Faculty of Science and Technology, Free University of Bolzano
- 2009 –2015 Researcher on a fixed term in Agricultural Chemistry (ital. SSD AGR/13), Faculty of Science and Technology, Free University of Bolzano
- 2008 –2009 Laboratory Technician, Faculty of Science and Technology, Free University of Bolzano
- 2006 – 2008 Post-Doc at the Department of Agroenvironmental Sciences and Technologies, Università di Bologna., Italy

2008	Marco Polo Scholarship awarded by the University of Bologna at the BOKU- University of Natural resources and Applied Life Sciences, Vienna, Austria
2006	PhD in Agricultural, Forestry, and Food Sciences, curriculum Agricultural Chemistry, University of Torino (Italy)
2005	Visiting Scientist at Technische Universität München (TUM), Fachgebiet für Waldernährung und Wasserhaushalt, Freising, Germany
2004	Visiting Scientist: Short Term Scientific Mission (STSM) within COST 631- Understanding and Modelling Plant-Soil Interactions in the Rhizosphere Environment (UMPIRE) the framework, at BOKU- University of Natural resources and Applied Life Sciences, Vienna, Austria.

Most important scientific oral communications at academic conferences

- **Mimmo T** (Keynote lecture) 2021 Rhizosphere dynamics: plant-soil-microorganisms interactions triggering nutrient mobilization and uptake mechanisms, IX International Symposium on Mineral Nutrition of Fruit Crops, Virtual Conference, 28-30 June 2021.
- **Mimmo T** (Keynote lecture) 2021 How fruit trees can increase the solubilization/availability of nutrients in the rhizosphere, 1ª Reunião de Atualização Técnica sobre Calagem e Adubação em Frutíferas”, event held online, from October 05 to 09, 2020.
- **Mimmo T** 2020. The role of root-associated bacteria in plant stress alleviation and growth promotion. International PhD Winter School of the Italian Society of Agricultural Chemistry, Torino, Italy, 10-13 February 2020.
- **Mimmo T** (Keynote lecture) 2017 Nutrient availability in the rhizosphere, VIII ISHS Symposium on Mineral Nutrition of Fruit Crops, Bolzano, Italy, 27-30 June 2017.
- **Mimmo T** (Keynote lecture) 2019 Plant-soil-microorganisms interactions driving micronutrient availability in the rhizosphere, 15th International Conference on the Biogeochemistry of Trace Elements (ICOBTE), Nanjing, China, 5-9 May 2019.
- **Mimmo T** 2015. Methods applied in the authentication and traceability of agricultural products. International PhD Winter School of the Italian Society of Agricultural Chemistry, Piacenza, Italy, 9 - 12 February 2015.
- **Mimmo T** 2014. The rhizosphere – the underground information superhighway. International PhD Winter School of the Italian Society of Agricultural Chemistry, Piacenza, Italy, 17-21 February 2014.

Most important research projects funded

2018 – 2022	Spatial and temporal nutrient dynamics in the rhizosphere to unravel nutrient mobilization and uptake processes in cultivated plants – NUMICS – funded by the Free University of Bolzano. Role: Coordinator – 97,000 €
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- 2017 – 2021 Rhizosphere processes affect copper bioavailability in vineyard soils – RHIZOPRO – funded by the Free University of Bolzano. Role: Coordinator – 70,000 €
- 2013 –2016 Rhizosphere management for sustainable crop production: processes and mechanisms involved in soil nutrient availability, plant uptake and translocation – RHIZOCROP, Ministero dell’Istruzione, dell’Università e della ricerca (MIUR-FIRB), Italy . Role: Coordinator – 1,180,732 €
- 2011 – 2013 Development of new methods for the sampling and analysis of the rhizosphere to increase the bioavailability of nutrients in plants of local interest - RhizoTyr”, funded by the Autonomous Province of Bolzano, Italy. Role: Coordinator – 58,200 €.
- 2013 –2020 Partner, “OPTImised nutrients MAnagement from Livestock production in Alto Adige LIFE-OPTIMAL2012” – LIFE12 ENV/IT/000671. Role: Partner – 230,000 €
- 2018 –2021 Hydrothermal carbonization of Biogas digestate for hydroPonics: an innovative concept of bio-refinery -HBPonics” – FESR 2014-2020. Role: Partner – 237,000 €.
- 2016 –2019 Optimization of WOOD gasification chain in South Tyrol to prodUce bio-energy and other high-value green Products to enhance soil fertility and mitigate climate change - WOOD-UP – FESR 2014-2020. Role: Partner – 495,000 €

Key international cooperation partners

- **Bravin** Matthieu – CIRAD, France; Blanche Collin, CEREGE, University of Marseille, France
- **Brunetto** Gustavo – Universidade Federal de Santa Maria, Brasil
- **Bulgarelli** Davide – University of Dundee, Scotland, UK
- **Huck** Christian – Innsbruck University, Austria
- **Lehto** Niklas – Lincoln University, Christchurch, New Zealand
- **Puschenreiter** Markus and **Santner** Jakob – University of Natural Resources and Life Sciences, BOKU, Austria
- **Robinson** Brett – University of Canterbury, New Zealand
- **Zehetner** Franz University of Natural Resources and Life Sciences, BOKU and **Keiblinger** Katharina – University of Natural Resources and Life Sciences, BOKU, Austria

Bibliometry (SCOPUS)

- 138 published and accepted original papers in international WoS-ranked journals. Sum of citations 3056, H-index: 29.