

Curriculum Vitae Europass

Silvia Quaggiotti

Personal Information

First name / Surname: Silvia Quaggiotti

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Nationality: Italian

Date of birth: 04/05/1968

Current Position

Associate Professor, Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova, Agripolis, Viale dell'Università 16, 35020 Legnaro (Padova), Italy.

Work Experience

- 2013, 2019 – National qualification as Associate Professor, Agricultural Chemistry (AGR/13).
- 2006–2022 – Academic Researcher / Assistant Professor, DAFNAE, University of Padova.
- 2004–2006 – Post-doc, Molecular regulation of nitrate transport in maize.
- 2002–2004 – Post-doc, Physiological and molecular aspects of nitrate transport in maize.
- 2000–2002 – Post-doc, Effects of UV-B radiation on nitrogen and carbon metabolism in crops.
- 1997–2000 – PhD student, Crop productivity, University of Padova.

Education and Training

- 2000 – PhD in Crop Productivity, University of Padova.
- 1994–1995 – Master’s Degree in Agricultural Sciences (110/110 cum laude), University of Padova.

Visiting Academic Positions

- 1995–1996 – Fellowship of the University of Padua for specialization activity abroad, Département de Biochimie et Physiologie Moléculaire des Plantes, ENSA-M/INRA (Montpellier, France). Supervisor: Prof. Jean Claude Davidian. Project: Biochemical and molecular regulation of sulfate uptake in yeast and Arabidopsis.
- 1990–1991 – “Gini” Fellowship, Department of Plant Biochemistry and Biophysics, University of California, Davis (USA). Supervisors: Prof. Irvin Segel and Prof. Franco Renosto. Project: ATP sulfurylase and APS kinase extraction and purification in yeast, beet, and spinach.

Languages

Mother tongue: Italian

English – B2

French – B2

Teaching Activities

- 2023–present – Metabolic biotechnology of plant-derived products (MSc Biotechnology for Food Science).
- 2022–present – Plant Biology (BSc Land and Green Area Planning and Management).
- 20007–2022 – Molecular aspects of plant response to stress (MSc Biotechnology for Food Science).
- 2016–present – Soil fertility and plant nutrition (MSc Agricultural Sciences and Technologies).
- 2014–2015 – Plant metabolic processes and soil-plant relationship (TFA – Teacher Training).
- 2008–2009 – Plant/soil relationships in agroforestry systems (MSc Agricultural Sciences and Technologies).
- 2007–2008 – Perception and acquisition of nutrients in plants (MSc Agricultural Sciences and Technologies).

Administrative Roles and Responsibilities

- 2023–present – Vice-president for the MSc in Food Biotechnology.
- 2023–present – Member of the DAFNAE committee for Committee for Equal Opportunities and Gender Equality.
- 2019–2023 – Chair of the Internship and Graduation Committee for the MSc in Food Biotechnology.
- 2019–2023 – Coordinator of the Internship and Graduation Committee of the MSc in Food Biotechnology.
- 2018–2019 –DAFNAE delegate in the University Committee for Equal Opportunities and Gender Equality.
- 2016–2020 – Coordinator of training activities for high school students within the School-to-Work Transition project.
- 2016–present – DAFNAE delegate in the University Placement Committee.
- 2016–present – Member of the Quality Assurance Group (GAV) for the MSc in Food Biotechnology.
- 2016–2019 – Member of the interdepartmental working group contributing to the Agropolis Charter.
- 2015–2017 – Delegate for Post Lauream initiatives and promotion of collaborators' activities.
- 2012–2019 – Editor of the DAFNAE Research Yearbook.
- 2012–2019 – Member of the Internship and Graduation Committee of the MSc in Food Biotechnology.
- 2011–2014: Member of the Department Council, DAFNAE.
- 2006–2010: Member of the Steering Committee of the PhD Program in Crop Science.
- 2006–present: Member of the Academic Board of the PhD Program in Crop Science.

Scientific Organisations and Committees

- Organisation committee of: SICA (2002, 2025 – Padova), IHHS (2009 – Padova), Sulphyton Symposium (2011 – Conegliano), PhD Winter School on “Extreme Climatic Events” (2015 – Paluzza), DAFNAE Post Graduate Scientists Meeting (2016 – Legnaro), INPPO (2018 – Padova).
- Chair of session: Plant adaptation to the environment (INPPO 2018).
- Examining Committee for PhD dissertations, University of Firenze (2017).
- Review panel member for: University of Verona, Israel Science Foundation, Agence Nationale de la Recherche (France), Progetto Galileo (Italy–France).

Editorial Activity

- 2012–2019 – Editor, DAFNAE Research Yearbook.
- Since 2019 – Review Editor, Frontiers in Physiology and Frontiers in Plant Science.
- Since 2020 – Advisory Editor, Plant & Cell Physiology.
- Reviewer for numerous international journals including Journal of Experimental Botany, Plant Journal, Plant, Cell & Environment, Planta, Plant Physiology and Biochemistry, Frontiers in Plant Science, Agronomy, PLOS ONE, among others.

Research Interests

Plant physiology, molecular biology, and cell biology with a focus on nutrient sensing and abiotic stress responses.

- Nitrogen sensing by roots and developmental responses to N availability.
- Role of strigolactones in plant tolerance to abiotic stresses.
- Molecular and physiological mechanisms of biostimulant effects in plants.
- Micropropagation protocols for blueberry and hazelnut.
- Plant cell cultures for nutraceutical and pharmaceutical compounds.

Publications: Author of 47 papers in peer-reviewed journals (H-index: 27) and 7 book chapters.

Research Contracts and Funding

Research Contracts

- 2015 – Prot. N. 44, ILSA S.p.A.: Set up of a correct growth and sampling protocol of maize seedlings for further transcriptomic and proteomic analyses.
- 2016 – Prot. N. 235, ILSA S.p.A.: Maize root transcriptome regulation in response to AB309 biostimulant.
- 2017 – Prot. N. 905, ILSA S.p.A.: Biostimulant effects of APR in B73 maize genotype grown in hydroponic solution.
- 2019 – Prot. N. 1192, ILSA S.p.A.: Evaluation of APR effects on model plants under abiotic stress conditions.
- 2021 – Rigoni di Asiago: Micropropagation of strawberry seedlings of the Profumata di Tortona and preparation of a micropropagation protocol for the Tonda Franciscana and Colurna hazelnut varieties.

- 2022 – Rigoni di Asiago: Micropropagation of plants of agro-forestry interest.

Funding (current and past)

- 2021 – PIPELINE – Set-up of protocols for the in vitro multiplication of *Corylus colurna* (vice-coordinator) (4 person months, UniImpresa).
- 2020 – Aptitude for the production of anthocyanins in wild blueberry biotypes and optimization of the in vitro cultures scaling up for the preparation of extracts with high anthocyanins for use in organic food (Coordinator) (2 person months, FSE).
- 2016 – Brassinosteroids involvement in the plant response to stress (co-coordinator) (6 person months, MAE – Italia-Corea).
- 2016 – Effects of extreme weather events on grapevine: a physiological, metabolic and molecular perspective (participant) (3 person months, SIR).
- 2008 – Role of microRNA in the perception and transduction of N-deprivation stress in *Arabidopsis* and in crops (coordinator) (6 person months, Progetti di Ateneo, Univ. di Padova).
- 2002 – Analyses of maize transcriptome in response to nitrate availability and to low N adaptation (coordinator) (9 person months, Progetti Giovani Ricercatori, Univ. di Padova).
- 2001 – Physiological and molecular aspects of nitrate transport in maize (Coordinator) (8 person months, Progetti Giovani Ricercatori, Univ. di Padova).
- 2000 – Humic substances effects on sulfur metabolism in maize (coordinator) (8 person months, Progetti Giovani Ricercatori, Univ. di Padova).