

BERTEA CINZIA MARGHERITA: CURRICULUM VITAE

1. PERSONAL DETAILS

Full name and title

Cinzia Margherita Berteà, PhD

Date of birth

2nd of May 1970

Nationality

Italian

Country of residence

Italy

Institution

University of Turin
Dept. of Life Sciences and Systems Biology

Contact details (telephone/email)

+39-0116706361 cinzia.bertea@unito.it

2. PROFILE

Cinzia M. Berteà is Associate Professor of Plant Physiology at the Department of Life Sciences and Systems Biology, University of Turin, Italy.

Her scientific research is mainly focused on basic and applied research related to physiology, biochemistry and molecular biology of plant responses to abiotic and biotic stress and on molecular biology and biochemistry of secondary metabolites with particular regard to terpenoids and phenolic compounds in medicinal and food plants.

Her current research lines include:

- i) search for new plant biostimulants, innovative products employed in agriculture for enhancing plant growth, development, tolerance to abiotic stress and crop yield;
- ii) isolation of natural herbicides and/or pesticides based on plant products or allelochemicals for a sustainable use in agriculture
- iii) isolation, analysis and biological activity evaluation of primary and secondary metabolites from plants and other organisms to be employed in food and pharmaceutical industries.
- iv) DNA fingerprinting of medicinal and food plants

She is currently involved in several national and international projects.

She is member of the tutor board of the Doctoral School of "Sciences and Innovative Technologies" Ph.D. Program in "Pharmaceutical and Biomolecular Sciences" and President of the Master Degree Program in "Food Sciences and Human Nutrition".

She is author and co-author of more than 50 scientific articles published in international journals and she regularly performs peer-reviewing activities of both scientific papers and national and international scientific projects. She carried out several oral presentations (selected or invited keynotes) at both national and international conferences.

3. EDUCATION

1984 -1988: College studies. Teachers' Diploma at the at training-college "G.A. Rayneri", Pinerolo (TO) Italy

1989-1994: University studies. Master Degree in Biological Sciences (Biomolecular specialty) at the University of Turin, Italy. Title of the Master Degree Thesis: "The C4-photosynthetic pathway of *Vetiveria zizanioides* Stapf."

1995-1996: one year training and qualification to practice as a biologist at the University of Turin.

1996-2000: Graduate studies. PhD degree in Biochemical Sciences at the University of Turin, Italy. Title of the thesis: "'Menthofuran biosynthesis in the genus *Mentha*: cloning and heterologous expression of (+)-menthofuran synthase from peppermint". She carried out part of the PhD project at the Institute of Biological Chemistry (Prof. Rodney Croteau Laboratory), Washington State University, Pullman, WA, USA (May-November 1998 and March-August 1999).

Other education experiences

June-July 2007: attendance to the course "Molecular Techniques in Plant Science", Cold Spring Harbor Laboratory, New York, USA.

4. PROFESSIONAL EXPERIENCE

November 2014 – present: Associate Professor in Plant Physiology at the Life Sciences and Systems Biology Department (University of Turin), where she teaches "Plant Physiology" (practical laboratory), "Laboratory of Plant Applied Biology" (Plant Secondary Metabolites - module) for the Bachelor Degree program in Biological Sciences and "Bioactive Natural Metabolites" for the Master Degree in Food Sciences and Human Nutrition Program.

February 2004 – October 2014: Permanent position as Assistant Professor in Plant Physiology (University of Turin)

December 2002-January 2003: Temporary contract as Assistant Professor in Plant Physiology (University of Turin) for teaching the practical part of the course (Laboratory exercises).

August 2003 – November 2003: Temporary position as Associate in Research at the Business Unit Cell Cybernetics, Plant Research International, Wageningen, The Netherlands, where she worked on a project aimed at cloning and heterologous expression of cytochrome P450s in different plant species.

May 2001 – November 2002: Post-doc position as a Marie Curie Fellow at the Business Unit Cell Cybernetics, Plant Research International (Dr. Harro J. Bouwmeester Lab), Wageningen, The Netherlands (MCFI QLK3-CT-2000-52058). Title of the project: "Improving the production of the anti-malarial artemisinin in *Artemisia annua*"

Other professional experiences:

September 2000 – May 2001: Middle School Teacher of Maths and Sciences, Italy

May – June 2004: visiting period as Associate in Research at the Center for Ecological Research (Prof. Junji Takabayashi Lab), University of Kyoto (Japan).

May 2009 and August 2011: visiting period at the Weizmann Institute of Sciences, Rehovot, Israel (Dr. Asaph Aharoni Lab) for the Torino-Weizmann Collaborative Program: Scientific Cooperation and Exchange (2008). Title of the project: "The molecular characterization of *Boswellia*, and the biosynthesis of incensole acetate a novel pharmacological agent from an ancient drug."

August 2017, August 2018, August 2019: visiting period at Wageningen Plant Research, Business Unit Bioscience (Dr. Jules Beekwilder Lab), Wageningen, the Netherlands, where she worked on a project related to the cloning of genes (terpene synthases and cytochrome P450s) involved in isabelin biosynthesis in *Ambrosia artemisiifolia*.

June 2019: teaching period under the Erasmus+ programme at the Universidad Mayor de San Andrés, La Paz, Bolivia