

CURRICULUM VITAE



Email: giovanni.gamba@unito.it

LinkedIn

WORKING EXPERIENCE

December 2020 – on going

36° PhD course at the Department of Agricultural, Forestry and Food Sciences - University of Turin. Project activities carried out on the phenomenon of graft incompatibility on chestnut and table grapevine, studied with a multidisciplinary approach.

April 2018 – September 2020

Research grants on several projects coordinated by Professor Gabriele Beccaro, Tree Crops Department (DISAFA). Experimental activities conducted on Chestnut, Apple, Mulberry trees and small fruits. Writing of peer-reviewed articles, thesis advisor, application for EU projects are the main other activities connected to my work.

April 2016- August 2017

Research grants on projects coordinated by Professor Amedeo Reyneri. Experimental activities have been conducted on cereals and main industrial crops, regarding the relationship between agronomic practices and cereals quality.

SUBJECT EXPERT (approved by the Department Council on 11/11/2020):

- Ornamental arboriculture
- Laboratory of nursery techniques

Member of the scientific committee of Castanea journal (ISSN: 2284-4813).

EDUCATION

- 2020 *Qualified to the agronomist profession by the State Examination, winter session 2020*
- 2020 *University of Turin - Department of Agricultural, Forestry and Alimentary Sciences (DISAFA)*
36° PhD course
- 2014-2017 *University of Turin - Department of Agricultural, Forestry and Alimentary Sciences (DISAFA)*
Master's Degree "Sustainable Farming Systems", 110/110
- 2015 *Institute d'Enseignement Supérieur et de Recherche en Alimentation, Santé Animale, Sciences Agronomiques et de l'Environnement, VetAgro Sup, Clermont-Ferrand (France)*
Within the Erasmus Programme, semester of study.
- 2011-2014 *University of Turin - Department of Agricultural, Forestry and Alimentary Sciences (DISAFA)*
First level degree in Agricultural Sciences and Technologies
- 2006-2011 *Liceo Scientifico Statale Galileo Ferraris, Turin*
High School Diploma (High school specializing in Mathematics and Physics)

INTERNSHIP AND EXPERIENCES ABROAD

June – August 2022

PhD period abroad at Empresa de Transformación Agraria (TRAGSA), Vivero de Maceda.

November – December 2018

Outgoing mobility at the Université d'Antananarivo, Ecole Supérieure des Sciences Agronomiques (ESSA) – Madagascar. Erasmus+ Project "International Credit Mobility: Madagascar" (1-IT02-KA107-036256), staff mobility for training.

June 2015

Working as an intern at Institut National de la Recherche Agronomique (INRA), Unité de Recherche sur L'Ecosystème Prairial (UREP).

PUBBLICATIONS ON INTERNATIONAL JOURNALS (ISI)

- Donno, D., Mellano, M. G., Carini, V., Bergamasco, E., Gamba, G., & Beccaro, G. L., 2023. *Application of traditional cooking methods in chestnut processing: effects of roasting and boiling on secondary metabolites and antioxidant capacity in Castanea spp. fruits.* Agriculture, 13(3), 530.

- Donno, D., Fabro, M., Mellano, M. G., Gamba, G., Fioccardi, A., & Beccaro, G. L., 2022. *Integrating Traditional Wheat-Based Foods with High Health Value Flours: Castanea spp. Agro-Biodiversity in Bakery Products*. Agriculture, 12(7), 946.
- Fioccardi, A., Donno, D., Razafindrakoto, Z. R., Gamba, G., & Beccaro, G. L., 2022. *First phytochemical study of six tree and shrub species with high health-promoting potential from Madagascar: Innovative uses for food and medicinal applications*. Scientia Horticulturae, 299, 111010.
- Gamba, G., Cisse, V., Donno, D., Razafindrakoto, Z. R., & Beccaro, G. L., 2022. *Quali-Quantitative Study on Phenol Compounds as Early Predictive Markers of Graft Incompatibility: A Case Study on Chestnut (Castanea spp.)*. Horticulturae, 8(1), 32.
- Donno D., Mellano M. G., Gamba G., Riondato I., Beccaro G. L., 2021. *Mulberry: An ornamental tree that gives bioactive compounds for human health*. Acta Horticulturae, 1331, 205-213.
- Donno, D., Turrini, F., Boggia, R., Guido, M., Gamba, G., Mellano, M. G., Riondato, I., & Beccaro, G. L., 2021. *Vitis vinifera L. Pruning Waste for Bud-Preparations as Source of Phenolic Compounds—Traditional and Innovative Extraction Techniques to Produce New Natural Products*. Plants, 10(11), 2233.
- Tessa, G., Donno, D., Gamba, G., Mellano, M. G., & Beccaro, G. L., 2021. *Local and underutilised fruits as a source of nutraceutical molecules: bioactive compounds in Mespilus germanica L.* European Food Research and Technology, 247(11), 2861-2868.
- Razafindrakoto, Z. R., Tombozara, N., Donno, D., Gamba, G., Nalimanana, N. R., Rakotondramanana, D. A., Andrianjara, C., Beccaro, G., L., & Ramanitrahasimbola, D., 2021. *Antioxidant, analgesic, anti-inflammatory and antipyretic properties, and toxicity studies of the aerial parts of Imperata cylindrica (L.) Beauv.* South African Journal of Botany, 142, 222-229.
- Donno, D., Hassani, S., Sofoini, T., Mellano, M. G., Riondato, I., Gamba, G., & Beccaro, G. L., 2021. *Traditional Foods and Sustainable Rural Development: Exploiting the Case of the Comoros Tea as a Potential Source of Bioactive Compounds*. Sustainability, 13(11), 5815.
- Donno, D., Turrini, F., Boggia, R., Guido, M., Gamba, G., Mellano, M. G., Riondato, I., & Beccaro, G. L., 2020. *Sustainable Extraction and Use of Natural Bioactive Compounds from the Waste Management Process of Castanea spp. Bud-Derivatives: The FINNOVER Project*. Sustainability (ISSN: 2071-1050, IF: 2.592), 12(24), 10640. DOI: 10.3390/su122410640.
- Donno, D., Mellano, M. G., Gamba, G., Riondato, I., & Beccaro, G. L., 2020. *Analytical Strategies for Fingerprinting of Antioxidants, Nutritional Substances, and Bioactive Compounds in Foodstuffs Based on High Performance Liquid Chromatography–Mass Spectrometry: An Overview*. Foods (ISSN: 2304-8158, IF: 4.092), 9(12), 1734. DOI: 10.3390/foods9121734.
- Beccaro, G. L., Donno, D., Lione, G. G., De Biaggi, M., Gamba, G., Rapalino, S., Riondato, I., Gonthier, P., & Mellano, M. G., 2020. *Castanea spp. Agrobiodiversity Conservation: Genotype Influence on Chemical and Sensorial Traits of Cultivars Grown on the Same Clonal Rootstock*. Foods (ISSN: 2304-8158, IF: 4.092), 9 (8), 1062. DOI: 10.3390/foods9081062.

- Gamba, G., Donno, D., Mellano, M.G., Riondato, I., De Biaggi, M., Randriamampionona, D., & Beccaro, G. L., 2020. *Phytochemical characterization and bioactivity evaluation of autumn olive (Elaeagnus umbellata Thunb.) pseudodrupes, potential sources of health-promoting compounds*. Applied Sciences (ISSN: 2076-3417, IF: 2.287), 10 (12), 4354. DOI: 10.3390/app10124354.
- De Biaggi, M., Donno, D., Mellano, M. G., Gamba, G., Riondato, I., Rakotoniaina, E. N., & Beccaro, G. L., 2020. *Emerging species with nutraceutical properties: Bioactive compounds from Hovenia dulcis pseudofruits*. Food Chemistry (ISSN: 0308-8146, IF: 5.488), 310, 125816. DOI: 10.1016/j.foodchem.2019.125816.
- Donno, D., Mellano, M. G., Riondato, I., De Biaggi, M., Andriamaniraka, H., Gamba G., & Beccaro, G. L., 2019. *Traditional and Unconventional Dried Fruit Snacks as a Source of Health-Promoting Compounds*. Antioxidants (ISSN 2076-3921, IF: 4.520), 8(9), 396. DOI: 10.3390/antiox8090396.
- Donno, D., Mellano, M. G., Hassani, S., De Biaggi, M., Riondato, I., Gamba, G., Giacoma, C., & Beccaro, G. L., 2018. *Assessing nutritional traits and phytochemical composition of artisan jams produced in Comoros Islands: Using indigenous fruits with high health-impact as an example of biodiversity integration and food security in rural development*. Molecules (ISSN: 1420-3049, IF: 3.380), 23(10), 2707. DOI: 10.3390/molecules23102707.

COLLECTIONS/BOOKS

- Beccaro, G. L., Gamba, G., & Tessa, G., 2022. *Castagno*. In: Arboricoltura Speciale, Edagricole (Milano, Lombardia, Italia). ISBN: 9788850656165; 363-381 pp.
- Donno, D., Mellano, M.G., De Biaggi, M., Riondato, I., Gamba, G., Beccaro, G.L., 2020. *Antioxidant Compounds and Health-Promoting Properties in Goji (Lycium spp.): Influence of Genetic, Environmental, and Agronomic Factors on Phytochemical and Healthy Properties of Fresh and Dried Fruits* In: Phytochemicals in Goji Berries, CRC Press/Taylor & Francis (Boca Raton, Florida, Stati Uniti). ISBN: 9780367076344; 36-56 pp.

PARTICIPATION TO INTERNATIONAL AND NATIONAL CONFERENCES

Kestane Sempozyumu 2022

13-15 October 2022, Aydin - Turkey

- “A general overview on Italian/European chestnut production of 2022: problems, perspectives, and scientific research going on at the University of Turin”

[Oral presentation, speaker]

VIII Convegno Nazionale del Castagno

14-16 September 2022, Portici (NA) – Italy

- “Innovazione agronomica nell'impianto e nella gestione della castanicoltura intensiva: avanzamenti della ricerca”

[Oral presentation, speaker]

- “Prime osservazioni sui marker d’incompatibilità d’innesto in castagno: analisi dei composti polifenolici e delle perossidasi”
[Poster]
- “Nuove radici per il marrone italiano: osservazioni preliminari su nuovi portinnesti clonali”
[Poster]

31st International Horticultural Congress – IHC 2022

14-20 August 2022, Angers - France

- “Graft incompatibility in chestnut: a multidisciplinary approach for an early identification in *Castanea* spp.”
[Poster – short presentation]
- “Advances in the chestnut nursery industry: the new *Castanea* spp. Conservation and Certification Center”
[Poster – short presentation]

XVI Incontro-Dibattito sul Castagno "Il Futuro della Castanicoltura Passa dalla Innovazione"

28 May 2022, Marradi (FI) – Italy

- “Come realizzare un moderno castagneto da frutto”
[Oral presentation, speaker]

XII Feria internacional de la Castañicultura, Biocastanea 2021

18-21 November 2021, Ponferrada (Leon) - Spain

- “Advances in the chestnut nursery sector: the new *Castanea* spp. Conservation and Certification Center”
[Oral presentation, speaker]

XIII Giornate Scientifiche SOI

22-23 June 2021, Catania - Italy

- “Impiego di composti polifenolici come potenziali marcatori per la precoce identificazione di compatibilità d’innesto in *Castanea* spp.”
[Oral presentation, speaker]

Fachtag Kastanien-, Walnuss- & Haselnussanbau

28 February 2020, Steiermarkhof, Graz - Austria

- “High density chestnut plantations”
[Oral presentation, speaker]

X FERIA internacional de la Castañicultura, Biocastanea 2019

11-17 November 2019, Ponferrada (Leon) - Spain

- “Present situation and prospects of the chestnut sector in Italy”
[Oral presentation, speaker]

VII Convegno Nazionale Castagno SOI, Castanea 2019

11-14 June 2019, Pergine Valsugana (TN) - Italy

- “Definizione della dose ottimale di fertilizzante su castagno utilizzando strumenti non distruttivi e routinari per la misurazione del contenuto di clorofilla e fluorescenza fogliare”
[poster – short presentation]

Châtaignier parmi les arbres nourriciers, Renova 2019

9-11 January 2019, Le Mas d’Azil, Ariège – France

- “Activités dans le cadre des projets #castagnopiemonte, FINNOVER et HD Sativa”
[Presentazione orale, relatore]

INSTITUTIONAL ACTIVITIES AT THE UNIVERSITY

Representative of the PhD students in the Council of the Department Agricultural, Forestry and Alimentary Sciences, University of Turin (2020 – on going).

LANGUAGES

English: Level C1 First Certificate in English

French: Level B2

Spanish: Level B1

IT SKILLS

ECDL full standard.

MORE INFORMATION

License for professional use of plant protection products, driving license type A and B, Volunteer rescuer 118 Green Cross Turin (2018 – 2023).

I allow the use and processing of my personal data according to the Dlgs 196/2003 concerning the handling of personal data.

April 2023