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Cecilia Cagliero received her Master Degree in Pharmaceutical Chemistry and Technology in 2006 with the vote of 110/110 at the University of Turin and in February 2010 the PhD Degree in Science and High Technology (Pharmaceutical Science) at the University of Turin with a thesis dealing with "*Cyclodextrin derivatives as stationary phases for enantioselective GC and enantioselective GC-MS*".

From March 2009 to February 2011 she carried out research activity at the Department of Drug Science and Technology of the University of Turin covered by different institutional and private grants. From February 2011 to December 2011 she had a postdoc grant from Turin University for a research activity focused on the analytical characterization of biologically active secondary metabolites from by-products of the food industry within a project supported by Piemonte Region.

From December 2011 to December 2020 Dr. Cagliero has been Assistant Professor in Pharmaceutical Biology at the Department of Drug Science and Technology of the University of Turin.

From January to March 2016 she was a visiting professor at the Chemistry Department of Iowa State University (USA) in the laboratory of Professor Jared Anderson.

Since December 2020, Dr. Cagliero is Associate Professor in Pharmaceutical Biology at the Department of Drug Science and Technology of the University of Turin.

Research activity of Cecilia Cagliero is primarily focused on the development of new technologies for the definition of the composition of volatile and nonvolatile biologically active secondary metabolites of plants and plant products of interest in the pharmaceutical, cosmetic and food fields.

The main topics of research are:

- Development and optimization of sample preparation techniques for the phytochemical characterization of plant samples with new and green phases (in particular ionic liquids and deep eutectic solvents) new extraction methods;
- Development of high and sustainable analytical capacity systems for the GC analysis of samples of vegetable origin and in the fragrance field of medium to high complexity: development of new gas chromatographic stationary phases (e.g. based on ionic liquids) new technologies of gas chromatographic columns (e.g. microfabricated GC columns) and fast-GC methods;
- Enantioselective gas chromatography (Es-GC): development of new cyclodextrin derivatives for GC separation of enantiomers of volatiles of natural origin and in the cosmetic field and study of their thermodynamics of separation; optimization, speeding-up and development of routine applications of enantioselective-GC for the characterization and authentication of matrices of plant origin;
- Characterization of the phytochemical profile and of the biological activity of extracts of plant origin with volatile and nonvolatile secondary metabolites through chromatographic hyphenated techniques (GC-MS, UHPLC-PDA-MS/MS) and in-vitro spectrophotometric assays.

In the occasion of the 2016 International Symposium on Capillary Chromatography she received the Leslie Etre award (presented to a scientist 35 years old or younger who presented the most interesting original research in capillary gas chromatography) for her presentation on the measurement of acrylamide in coffee powders using gas chromatography/mass spectrometry (GC/MS). On October 2018, she was included by The Analytical Scientist magazine in the "The Top 40 Under 40 Power List" that is intended to identify the gifted young scientists making waves in analytical science. She was also invited to contribute to the special issue "Emerging thought leaders in separation science" published in May 2020 by Journal of Separation Science.

At February 2023, Cecilia Cagliero (Scopus H-index 25, more than 1500 citations) is author of 74 scientific papers in International Journals, 9 book chapters and over 70 oral presentations and poster communications at national and international conferences and symposia.



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Dr. Cagliero is a member of the Editorial Board of the “Journal of Analytical Methods in Chemistry”, a member of the Editorial Board of the Journal Plants, Guest Editor of the Special Issues “Plant Volatiles: A Goldmine Not Fully Explored”, “Wild Edible Plants: Ethnomedicinal Use, Botany, Diversity, Biochemistry, Human Health Effect” and “New Trends in the Knowledge and Application of Essential Oils and Essential Oil Components” for the journal Plants. She is also member of the International Editorial Advisory Board of the Journal “Advances in Sample Preparation”. She acted as a reviewer for several international peer-reviewed journals. She was also the external reviewer for three PhD theses of the Universidad de La Laguna, Tenerife, Spain and member of the evaluation committee of one PhD thesis of the Universidad de La Laguna, Tenerife, Spain and one PhD thesis and the Universidad de Granada, Spain. Since October 2020 she is member of the committee of the supervisors for the PhD course in Pharmaceutical and Biomolecular Sciences at the University of Torino and she is supervisor of a PhD thesis on a project founded by CHANEL Sas (Paris, France).

Dr. Cagliero is also Associate Member of the Sample Preparation Study Group and Network of the European Chemical Society-Division of Analytical Chemistry (EuChemS-DAC), in which she is the Leader of the Working Group “Information Exchange and Networking” and member of the IUPAC project (Project No.: 2021-015-2-500) titled “Greenness of official standard sample preparation methods” in which she is the Leader of the Working Group on Foods.

Dr. Cagliero is Leader of the project “Valorization of biomass from the agri-food chain for the production of extracts for health use” founded by the University of Turin within a Grant for Internationalization and she collaborates in different research projects founded by companies for the characterization of plant extracts and fragrances (e.g. CHANEL, Indena, Robertet, SilvaTeam).