

Prof. Giancarlo Cravotto - *CURRICULUM VITAE*



Giancarlo Cravotto became a researcher at the Department of Drug Science and Technology (University of Turin), after four years of experience in the chemical and pharmaceutical industries (Chemat sas and Farmitalia-Carlo Erba Spa, respectively). He spent a year at the Technische Universität in Berlin (Prof. P. Weyerstahl), on an organic synthesis project, funded by DFG and CNR, in 1992.

His research activity in the domain of green organic synthesis and processing, is documented by more than 570 scientific, peer-reviewed papers (H. Index 80, over 28,500 citations by Google Scholar; H. Index 70 with 21,500 citations by Scopus), 22 patents, about 52 book chapters and 7 books as editor, and more than 600 communications to scientific meetings, including several invited plenary and keynote lectures. The extraction, purification, synthesis and chemical modification of bioactive natural products has been the focus of his research activity. These studies have paved the way for new, non-conventional energy source driven synthetic procedures (microwaves, ultrasound, hydrodynamic cavitation, mechanochemistry, reactive extruders, flow chemistry, etc.), while also prompting the development of innovative hybrid reactors.

Main research projects

He was a working group coordinator for COST Action D32 and member of the Management Committee for Italy. His group has been a working partner on numerous UE projects, including “ARCADE” (7thFP); “MAPSYN” (FP7-NMP-2012); “ECOEXTRACTION” (Alcotra 2011); “US4GREENCHEM” (BBI; H2020); “COSMIC” (MSCA H2020); “PHENOILS” - RIS Challenges - New technologies implementation in RIS regions (EIT Food BP2020); “ULTRACLEAN” (Manunet III 2019); “PROSEED” Sustainable Circular PROteins from grapevine SEEDs (EIT Food 2022). Follow recent regional/national projects: “COMPETITIVE” (AGER, Cariplo foundation); Project CRT Foundation call 2019; “BIOENPRO4TO” (POR FESR 14-20 Technological Platform Bioeconomy); “PROMESSO” (POR FESR 14-20); “NUTRIBEV” (Pitef grant POR FESR); “CaviPro” (MSCA EU 2023); “Canapa New Tech” (PSR 2024). He collaborates with a variety of industrial partners across a number of fields, including food processing, phytoextracts, pharmaceuticals, fine chemicals, cosmetics, and biomedical polymers.

Institutional, Editorial and International roles

He has been Director of the Department of Drug Science and Technology since 2007 until October 2018, he is currently Full Professor of Organic Chemistry and vice-Director.

He is *Editor-in-Chief* of *Processes* (MDPI, Basel); Associate Editor of *Frontiers in Chemical Engineering* and Editor or Editorial board member of several journals: *Green Processing and Synthesis* (De Gruyter), *Ultrasonics Sonochemistry* (Elsevier), *Scientific Report* (Springer Nature) *Molecules* “Green Chemistry” (MDPI), *Magnetochemistry* (MDPI), *International Journal of Green Technology*, *Heliyon*, etc. Prof. Cravotto has been the President of the European Society of Sonochemistry (ESS) from 2012 to 2018. He is the foreign member of the *Conseil Scientifique de l'UMR ICSM* (CEA/CNRS/UM/ENSCM, Marcoule, France). He has been visiting scientist at the

World-Class Research Center "Digital biodesign and personalized healthcare", Sechenov First Moscow State Medical University, Moscow, Russia (2019-2022). He is Scientific board member of the Institute of Food Science Research (CIAL, CSIC-UAM - Spain). Scientific board member of SifNut (Italian Society of Nutraceutical Formulation) and Scientific board member of Agroinnova – Turin.

Awards: Gold Badge 2012 (International Charitable Foundation) "*For the contribution to World Science and International Scientific Collaboration*". Scientific Research Award 2018 "*Organic Chemistry for the Environment, Energy and Nanosciences*" by the Italian Chemical Society (SCI – Organic Chemistry). International green extraction of natural products “GENP2018” Award "*Innovation in Chemistry*". Kurnakov gold/silver medal 2019 (Russian Academy of Science). Gold medal “E. Paternò” 2017-2020 by the Italian Chemical Society; International RoGuiltlessplastic 2023 Price “Emerging High Technologies 2nd Place”.