

## **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 (Chematec 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 400 scientific, peer-reviewed papers (**H. Index 48**, and **10,400 citations**), 19 patents, 40 book chapters and 7 books as editor, and more than 400 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, flow chemistry, etc.), while also prompting the development of innovative hybrid reactors.

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” 7<sup>th</sup> FP (concluded), “MAPSYN” - Highly efficient syntheses using alternative energy forms (FP7-NMP-2012) and “ECOEXTRACTION” (Alcotra 2011). As part of the Horizon 2020 framework, he is the scientific coordinator for the project; “US4GREENCHEM” - Combined Ultrasonic and Enzyme treatment of Lignocellulosic Feedstock as a Substrate for Sugar Based Biotechnological Applications; “COSMIC” project (European Training Network for Continuous Sonication and Microwave Reactors - Marie Skłodowska-Curie Action) and the national AGER project “COMPETITIVE” on olive oil technology. He collaborates with a variety of industrial partners across a number of fields, including food processing, phytoextracts, pharmaceutics, fine chemicals, cosmetics, and biomedical polymers. 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 of *Green Processing and Synthesis* (De Gruyter) and former Editor of *Ultrasonics Sonochemistry* (Elsevier). Editorial board member of several journals: *Ultrasonics Sonochemistry*, *Molecules* “Green Chemistry”, *Magnetochemistry*, *Heliyon*, etc. Prof. Cravotto has been the President of the European Society of Sonochemistry (ESS) from 2012 to 2018. He is member of the *Conseil Scientifique de l’UMR ICSM* (CEA/CNRS/UM/ENSCM, Marcoule, France). He is visiting scientist at the Centre of Bioanalytical Research and Molecular Design (Inst. Translational Medicine and Biotechnology, First Moscow State Medical University - Sechenov) Moscow, Russia.

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).