

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 is documented by about 340 scientific, peer-reviewed papers, 15 international patents, several book chapters and three 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 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, mechanochemistry, flow chemistry, etc.), while also prompting the development of innovative hybrid reactors. The subsequently developed equipment and techniques have seen widespread use in organic synthesis, in the degradation of persistent organic pollutants, in the extraction of plant constituents, in food processing, sample preparation and in several applications of industrial interest. 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” 7th 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, while the “COSMIC” project (European Training Networks 2016) is his most recently approved venture besides the national AGER project “COMPETITIVE”. He collaborates with a variety of industrial partners across a number of fields, including food processing and packaging, phytoextracts, pharmaceuticals, fine chemicals, cosmetics, petrochemicals, textiles and biomedical polymers. He is currently Full Professor of Organic Chemistry at the University of Torino and has been Director of the Department of Drug Science and Technology since 2007. He is the Editor of *Green Processing and Synthesis* (De Gruyter) and former Editor of *Ultrasonics Sonochemistry* (Elsevier, currently board member). Prof. Cravotto is the President of the European Society of Sonochemistry (ESS).