

CV TOSI

Since November 2005, Dr. Giovanni Tosi is researcher in the scientific field of Pharmaceutical Technology at the University of Modena and Reggio Emilia (PI at the department of Pharmaceutical Sciences, which belongs to the faculty of Pharmacy). Since 2015, he is associate professor in the same field. He got certificate for Full professor in 2017, and now he is full Professor since 2020.

He was born in 1977 (March, 2nd) in Bologna, Italy, and got his degree in Pharmacy in 2002 with 110/110. He got his PhD in Pharmaceutical Sciences in 2005 at the University of Modena and Reggio Emilia, Italy. He was Coordinator of "Applied Technology" curricula for the PhD school in Health Products, member of Instruments Commission of Dep.Pharm.Sci., Contact Person ILO of Dep.Pharm.Sci, Research products, Representative of the Dep.Pharm.Sci. in the Central Board of Animal House and Committee for Research of University of Modena and Reggio Emilia.

He is scientific delegate for international cooperation and coordinator of UNIMORE Nanomedicine Platform since 2017, vice-chair of WG Nanotherapeutics in European Technology Platform for Nanomedicine from 2019 and 2021 and now General Secretary since 2021.

The research activity is based on the development of lipid and polymeric systems for the delivery and the targeting of drugs to diseased tissues or cells. In particular, drug delivery to the Central Nervous System, by using nanoparticulate vectors. In particular, the research is focus on the planning, preparation, characterization and administration of Np after surface modifications. Furthermore, over the last years, his interest was also deputed to the preparation and optimization of liposomal nanocarriers for the delivery of gene material (in particular oligonucleotides) in Keratinocytes (biological target: skin pathologies) and tumor targeting. After in vitro test, the research reached an increased transfection efficacy mediated by these novel vectors, confirmed by confocal microscopy and citofluorimetric analysis.

His works on nanomedicine for drug and gene delivery and targeting were honored with national prizes and awards (La Manna Prize for Student Thesis he driven), Jorge Heller Outstanding Paper Award, 2005) and Innovation price (AFI2005, AFI 2006). His work on Nanoparticles for CNS drug delivery has been recently awarded as one of the Hot Topic (150 selected research over 19.000 proposals) at the World Neuroscience Meeting (Society for Neuroscience) in Washington DC, November 2011 and World Neuroscience Meeting (Society for Neuroscience) in New Orleans, November 2012.

He is author or co-author of more than 100 publications in international journals (H index 30, Cit 3100, Scopus) and gave over 200 presentations (invited speaker, oral presentations and posters) in international and national congresses.

He participated as collaborator or project leader in several Italian and International projects supported by the Italian Research Ministry, IMI project, Euronanomed grant, Ministry of International Cooperation Projects and POR FESR project. He is now collaborating with a broad network of scientists in the field confirmed by the international participation to publications and many national and international industries (Gilead Sciences, Biomarin). He currently acts as referee for the top journals in nanotechnology and nanomedicine such as Journal of Controlled Release, Biomaterial, Nanomedicine and many other journals dealing with Nanotechnology, Drug Delivery and Nanomedicine. He is Member of the Editorial Advisory Board of "Drug Delivery Letters", "Journal of Nanoneuroscience" and "ISRN Pharmaceutical" and many others in the field.