

Dr. Marco Garcia-Vaquero

Dr. Marco Garcia-Vaquero is Assistant Prof. at the section of food and nutrition at the School of Agriculture and Food Science at University College Dublin (UCD, Ireland). He has a broad research experience in food science research with working experiences in Spain (University of Santiago de Compostela) and Ireland (Teagasc and UCD) where he continues his research in the development of functional foods or nutraceuticals. Dr. Garcia-Vaquero's primary research interest focuses on the utilisation of algae (macroalgae and microalgae) and other agri-food waste or by-products for the generation of novel food ingredients. His research explores the use and optimization of innovative technologies (i.e. ultrasounds, microwaves, pulsed electric fields, etc.) for the extraction of high-value compounds (i.e. polysaccharides, proteins and phenols) from agri-food by-products and waste to be used as nutraceuticals, as well as the chemical analyses of these compounds and their biological activities (anti-hypertensive, anti-oxidant, anti-cancer, anti-microbial and immunomodulatory), safety (chemical hazards such as heavy metals) and bio-accessibility of these compounds *in vitro*.

Throughout his career, Dr. Garcia Vaquero has written over 60 publications, contributed to more than 40 conferences, advised policy makers and edited multiple special issues in peer-reviewed journals and books in the area of functional foods, food safety and innovative technologies providing also guidance and supervision within this research area to multiple masters, PhDs and postdoctoral researchers. His expertise in the field of functional foods, specially focused on the use of innovative technologies for the utilisation of food by-products, has been recognised by being appointed as an editorial board member of several international journals and as management committee member and group leader in multiple European research networks, leading European and International researchers in the field of food technology.

Links to profile

- Institutional profile: <https://people.ucd.ie/marco.garciavaquero/publications>
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