



PERSONAL INFORMATION **Francesco Capozzi**

Department of Agricultural and Food Sciences

Alma Mater Studiorum University of Bologna - Piazza G. Goidanich 60, 47521, Cesena

Email Address

Sex: Date of birth: Nationality:

CURRENT POSITION Full Professor of General and Inorganic Chemistry

ADDITIONAL RELEVANT POSITIONS Head of Interdepartmental Centre for Industrial Agrofood Research
Vice-president of the Agrifood Cluster of the Emilia-Romagna Region

RESEARCH FIELD MAX 1000
characters space included

He is co-founder of Foodomics which studies food and nutrition as-a-whole, for the improvement of human health and well-being, as measured by robust models of molecular and supramolecular descriptors. The research activity aims to: i) evaluate the metabolic status of individuals, investigating the spectroscopic profiles of biological fluids and tissues; ii) develop methods for measuring errors in epidemiological assessments, observing the presence of predictive biomarkers of specific pathophysiological conditions, including dietary habits; iii) describe the transformation of food products through the molecular profiles and biophysical properties of the food matrix; iv) measure the molecular bioaccessibility and digestibility of food products in relation to their susceptibility to enzymatic hydrolysis and to the chemical exchange mechanisms of nutrients with the food matrix.

WORK EXPERIENCE

November 2018 - today **Full Professor of General and Inorganic Chemistry (S.S.D. CHIM/03)**
Department of Agricultural and Food Sciences - Alma Mater Studiorum University of Bologna, Italy

November 2012 - October 2018 **Associate Professor of General and Inorganic Chemistry (S.S.D. CHIM/03)**
Department of Agricultural and Food Sciences - Alma Mater Studiorum University of Bologna, Italy

November 2001 - October 2012 **Associate Professor of General and Inorganic Chemistry (S.S.D. CHIM/03)**
Department of Food Science - Alma Mater Studiorum University of Bologna, Cesena, Italy

November 1998 - October 2001 **Associate Professor of General and Inorganic Chemistry (S.S.D. CHIM/03)**
Department of Chemistry - University of Calabria, Via P. Bucci, 87036 Rende CS, Italy

January 1996 - October 1998 **Assistant Professor of General and Inorganic Chemistry (S.S.D. CHIM/03)**
Department of Food Science - University of Bologna, Cesena, Italy

January 1993 - December 1995 **Didactic Tutor for Chemistry**
Campus of Food Science - University of Bologna, Cesena, Italy

November 1989 - December 1992 **Contract as Expert of NMR spectroscopy**
Institute of Agricultural Chemistry - University of Bologna, Italy

November 1987 - October 1989 **Researcher in pharma industry**
Dept. of Analytical Research - Menarini Industrie Farmaceutiche, V. Sette Santi 1, 50131 Firenze
•Development of analytical methodologies for the quality control of experimental drugs

May 1987 - October 1987 **Research scholarship**
Department of Organic Chemistry - University of Florence, Italy
•Development of analytical methodologies for the quality control of PGI Chianti wines

EDUCATION AND TRAINING

1987 **Five-year degree in Pharmaceutical Chemistry and Technology**
University of Florence, Italy

PERSONAL SKILLS

Mother tongue
Other languages

ADDITIONAL INFORMATION

Publications and main indexes

Total number of publications in peer-review journals: 105

H-Index: 34 (Scopus)

Google Scholar Page: <https://scholar.google.com/citations?user=2wcrsolAAAAJ>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=25934052700>

Publons: <https://publons.com/researcher/1614500/francesco-capozzi/>

ORCID: <https://orcid.org/0000-0002-5543-2359>

Relevant publications for the call (max 5) - **Capozzi, F.**, "Food innovation in the frame of circular economy by designing ultra-processed foods (UPFs) optimized for sustainable nutrition" (2022) *Front. Nutr.* 9, Art. 886220.
<https://doi.org/10.3389/fnut.2022.886220>

- Mengucci, C., Ferranti, P., Romano, A., Masi, P., Picone, G., **Capozzi, F.**, "Food structure, function and artificial intelligence" (2022) *Trends in Food Science and Technology*, 123, pp. 251 - 263.
<https://doi.org/10.1016/j.tifs.2022.03.015>

- Mengucci C., Bordoni A., **Capozzi F.**, "Understanding the kinetics of nutrients bioaccessibility by modelling foodomics data", *Current Opinion in Food Science* (2020) 31, pp. 114-120,
<https://doi.org/10.1016/j.cofs.2020.04.001>

- Trimigno A., Khakimov B., Savorani F., Tenori L., Hendrixson V., Čivilis A., Glibetic M., Gurinovic M., Pentikäinen S., Sallinen J., Garduno Diaz S., Pasqui F., Khokhar S., Luchinat C., Bordoni A., **Capozzi F.**, Balling Engelsen S., Investigation of Variations in the Human Urine Metabolome amongst European Populations: An Exploratory Search for Biomarkers of People at Risk-of-Poverty" (2019) *Molecular Nutrition and Food Research*, 63 (1) 1800216, <https://doi.org/10.1002/mnfr.201800216>

- Barbara, G., Scaioli, E., Barbaro, M.R., Biagi, E., Laghi, L., Cremon, C., Marasco, G., Colecchia, A., Picone, G., Salvi, N., **Capozzi, F.**, Brigidi, P. "Gut microbiota, metabolome and immune signatures in patients with uncomplicated diverticular disease" (2017) *Gut* 66 (7) pp. 1252 - 1261.
<http://doi.org/10.1136/gutjnl-2016-312377>

Presentations at conferences - "(Ultra)-Processed Foods in the frame of circular economy", MASTER MICHELE FERRERO, 8 March 25, 2021.

- "The Foodomics contribution to design foods optimized for health", 34th EFFoST INTERNATIONAL CONFERENCE, Technion, Israel -November 10-12, 2020.

- "Ultra-processed foods in the frame of circular economy", 7th INTERNATIONAL CONFERENCE ON GROWTH AND NUTRITION, Virtual Conference, August 27-29, 2020

- "NMR Spectroscopy as a Tool of Choice to Approach Foodomics", NMR USERS MEETING. Búzios, Rio de Janeiro, Brazil - August 3-7, 2019.

- "Foodomics a powerful approach for traceability". DISH HIGH LEVEL SUMMIT, New issues and emerging trends in food safety. Bologna, Italy - May 14-15, 2019

- "Multidisciplinary skills for Food Safety". WORLD FOOD RESEARCH AND INNOVATION FORUM -FOOD SAFETY ON THE NEW SILK ROAD, Guangzhou (Guandong), China, 20/11/2017

- "Basic Concepts of Metabolomics and Application to the Food and Nutrition Science". IAFP's EUROPEAN SYMPOSIUM ON FOOD SAFETY. Athens, Greece, 11-13/05/2016

- "Foodomics: the right approach to discover the link between food and health", THE FIRST ITALIAN-ISRAELI FORUM ON MEDICINE: Food and health, impact of computational and experimental studies. Tel Aviv and Rehovot, Israel 2-3/06/2015.

Main projects with interest for the call (last 5 years)

2013-2018 KBBE FP7 (GA 311876) "PATHWAY27 - Pivotal assessment of the effects of bioactives on health and wellbeing. From human genome to food industry". Role: metabolomics task leader

2014-2018 H2020 JPI-HDHL Biomarkers for Nutrition and Health. "The Food Biomarker Alliance (FOODBALL)". Role: UNIBO Principal Investigator

2018-2023 H2020 Project (ID 817737) "FutureEUAqua - Future growth in sustainable, resilient and climate friendly organic and conventional European aquaculture". Role: work package leader

2020-2023 H2020 Project (ID 862658) "NewTechAqua - New Technologies, Tools and Strategies for a Sustainable, Resilient and Innovative European Aquaculture". Role: work package leader

Honours and awards None relevant for the PE10 topics

Memberships and managerial activities

Delegate of the Conference of Italian University Rectors (CRUI) at the national coordination table for the funding program PRIMA;

Scientific Advisor of "Magnetic Resonance in Food Science" in the Groupement AMPERE;

Member of the International Advisory Committee of the Research Institute for Future Food, The Hong Kong Polytechnic University;

Chair of the Scientific Committee of the International Congress "Foodomics";

Representative for the University of Bologna in the Board of the "Interuniversity Consortium for Metal-Protein Magnetic Resonances (CIRMMP)";

Member of the Italian Society of Chemistry - Division of General and Inorganic Chemistry;

15/04/2023

Signature