



Prof. Dr. Chiara Dall'Asta

Department of Food and Drug, University of Parma, Italy

Chiara is currently Professor of Food Chemistry at the Department of Food and Drug, University of Parma, where she serves as Elected Chair of the Doctoral Program in Food Science. She has published >200 peer reviewed articles mainly in the field of food safety and was involved in policy making as expert members of several working groups of the European Food Safety Authority, co-authoring 8 scientific assessments so far.

Research Interest:

Prof. Dall'Asta's primary field of research is related to mycotoxins and natural bioactive compounds, with a focus on the formation, stability, and biotransformation of mycotoxins, and on the chemical mechanisms underlying their toxicological activity. Recently, she's moved towards the application of HR-MS metabolomics/system biology to the field and has implemented the use of computational toxicology and alternative methods to the investigation of molecular mechanisms responsible for the biological activities of (multiple) chemicals. In the last 5 years, Chiara has enlarged her scientific interest in the field of food fraud, through the application of advanced non-targeted methodologies (i.e. imaging-MS, ion mobility MS, ambient MS) to food fingerprinting and markers identification.

Expertise:

- Mycotoxins occurrence and analysis
- Risk assessment of natural compounds
- Advanced mass spectrometry applied to food safety and authenticity

Projects (selected - ongoing):

- 2023 - 2027- HORIZON-MSCA-SE-2022 "Exploring (emerging) Mycotoxins Risk in Beans: a global alliance for climate change resilience (MYCOBEANS)"
- 2023 - 2025 - HORIZON-MSCA-2022-PF-01 "Providing Risk-benefit Insights of Shifting to Meat Alternatives (PRISMA)"
- 2022 - 2025 - HORIZON-WIDERA-2021-ACCESS-03 "Shielding food safety and security by enabling the foresight of fungal spoilage and mycotoxins"

- threats in the Mediterranean region under climate change conditions - FUNSHIELD4MED” (<https://funshield4med.eu/>)
- 2022 - 2025 - NextGenerationEU PNRR ONFOODS - Spoke 3 “Food safety of traditional and novel foods” (<https://www.onfoods.it/>)
 - 2021- 2024 - PRIMA-Section II - 2020 “Change-UP: Innovative agro-ecological approaches to achieving resilience to climate change in Mediterranean countries” (<https://changeupproject.com/>)
 - 2021 - 2023 - OC/EFSA/SCER/2021/07 “TK Plate 2.0”