

Dr. Beatrice Bocca graduated in Chemistry in 1997 with highest honors (110/110 cum laude) and is Senior Researcher in the Human Exposure to Environmental Contaminants Unit, Department of Environment and Health, Istituto Superiore di Sanità (ISS). Her research focuses on the human biomonitoring of essential and toxic metals, metal species, nanomaterials, and nanoplastics, aiming to assess exposure in the general population and occupational settings, establish reference values for trace elements in biological matrices, and investigate associated health effects. She develops and validates advanced analytical methods based on ICP-MS, often coupled with chromatographic separation techniques.

She is Principal Investigator for ISS on several national projects, including BioPlast4SAFE (biomonitoring of biodegradable micro- and nanoplastics), SPoTT 2 (health surveillance near the Turin waste-to-energy plant), and studies on dermal absorption of nanomaterials and occupational/environmental risk biomarkers. She has coordinated activities within the European projects PARC and HBM4EU, including occupational biomonitoring in healthcare and e-waste settings and studies on metallic nanoparticles and hexavalent chromium exposure.

She serves as an ISS expert in several EU working groups, including the EFSA Working Group on Nanotechnology, the WG-ICP and WG-Inorganic Chemistry of the European Pharmacopoeia Commission, and the EU Working Groups on the Definition of Nanomaterials and on the Safety of Tattoos and Permanent Make-up. She is author of approximately 300 scientific publications (H-index 47; Scopus Author ID 55919390100), promotes the conference series of the Italian Society of Reference Values (SIVR), and serves on the Programme Committee of the International NanoInnovation Conference and the Editorial Board of *Toxics*.