SHORT CURRICULUM VITAE

Anna Laura Capriotti

Department of Chemistry, Sapienza University of Rome, Italy | annalaura.capriotti@uniroma1.it | ORCID: 0000-0003-1017-9625

Anna Laura Capriotti is Associate Professor of Analytical Chemistry at the Department of Chemistry, Sapienza University of Rome, where she has been a faculty member since 2011. She obtained her Master's Degree in Analytical Chemistry and Applied Methodologies with honours from Sapienza University of Rome in 2009 and a PhD in Analytical Chemistry of Real Systems in 2012. During her doctoral training, she carried out research at the Max Delbrück Center for Molecular Medicine in Berlin. In 2018, she obtained the Italian National Scientific Qualification for Full Professor in Analytical Chemistry.

Her research activity is focused on the development and application of advanced analytical platforms based on liquid chromatography coupled to high-resolution mass spectrometry. Her main scientific interests include proteomics, peptidomics, metabolomics and lipidomics, targeted and untargeted mass spectrometry, sample preparation and enrichment strategies, bioactive peptides, food and environmental analysis, nanomedicine and protein-corona characterization, as well as omics-based biomarker discovery in precision medicine. Particular attention is devoted to innovative bioinformatic and chemometric workflows for the structural characterization of complex molecular classes and for the interpretation of large-scale omics datasets.

She is author or co-author of 224 scientific publications in international peer-reviewed journals, with an h-index of 53 and more than 9,000 citations. Her scientific activity has also resulted in three patents or patent applications. She has coordinated or led several national and international research projects and research units, including PRIN, PNRR, Horizon 2020 and regional programmes, in areas ranging from analytical chemistry and food science to nanotechnology, precision medicine and biomarker discovery. She has supervised PhD students, postdoctoral researchers, research fellows and numerous Master's and Bachelor's theses.

Her scientific achievements have received several national and international recognitions. She was included in The Analytical Scientist Power List - Top 40 Under 40 in 2018 and 2022, received the EuCheMS Lecture Award, and has been the recipient of several awards from the Italian Chemical Society and Sapienza University of Rome. She has delivered plenary, keynote and invited lectures at national and international conferences, including EuroAnalysis and major meetings in separation science, bioanalytics and omics sciences.

She is actively involved in the scientific community and currently serves on editorial and advisory boards of international journals, including Analytical Chemistry, Analytical and Bioanalytical Chemistry, Trends in Food Science & Technology and Journal of Separation Science. She is also an elected member and Secretary of the Executive Board of the Analytical Chemistry Division of the Italian Chemical Society and a member of the Board of the Interdivisional Group of Separation Science. Her academic activity includes teaching Analytical Chemistry and Environmental Chemistry, participation in doctoral education, scientific committees and evaluation panels, and extensive collaboration with national and international research groups.