

Emily SCHIFANO - CV

Dr. Schifano graduated with honors in Biology and Cellular Technologies from Sapienza University of Rome in 2014. She earned her Ph.D. in Cell and Developmental Biology from the Department of Biology and Biotechnology "Charles Darwin" in February 2020. From 2020 to 2021, she worked at CREA - Food and Nutrition Research Center in Rome on the project "Collection and analysis of available data on food-associated microbiomes and review of existing literature on the food microbiome-gut microbiome interaction."

Since May 2021, Dr. Schifano has been a research fellow focused on the characterization of plant extracts using the model organism *Caenorhabditis elegans*. Her research involves employing the *C. elegans* model for in vivo toxicity studies, infection modeling, and studying human diseases. She also uses this system to screen probiotic bacteria isolated from food, assessing their probiotic properties both in vitro and in vivo. Additionally, her research includes evaluating the antimicrobial properties of carbon-based nanomaterials against bacteria that deteriorate cultural heritage. Dr. Schifano is also involved in the isolation and characterization of microorganisms that cause the degradation of historical and cultural substrates.