

I completed a Ph.D. program on plant pathogenic bacteria at the University of Modena and Reggio Emilia. My primary research centers on the perception of plant-pathogen interaction of bacterial plant pathogens. I am focused on plant-pathogen variation as measured by phenotypic and genotypic analyses. I am also interested in resistance mechanisms in bacterial-plant interactions. My present approach is to use molecular and genetic techniques 1) to determine resistance genes involved in copper resistance 2) to highlight virulence and pathogenicity factors and elucidate the molecular mechanisms underlying their virulence. I am also interested in the development of sustainable, environmentally friendly, and economical management practices such as nanoparticles and bacteriophages for fruit and vegetable diseases.