

Prof.ssa Stefania Stefani

Academic carrier: PhD and Post -doc in Microbiology and Virology, 1989; Associate Professor 1991-2001; Full Professor in Microbiology from 2001;

Current position: Full Professor of Microbiology

Orcid ID 0000-0003-1594-7427

Research ID K-8075-2016

Teaching activity: Medical Microbiology, Applied Molecular Microbiology, Antibiotic Resistance and Pathogenicity,

Academic and scientific qualification:

- **Member of the board IDSA-ESCMID for *S.aureus* bacteremia BSA guidelines** (2017)
- **Member of the Board of the Italian Minister of Health for the Antimicrobial Resistance Plan** (2016-2017)
- **President of the Research and Innovation Technology Lab (BRIT)** (2016)
- **Member of College PhD** in “Translational Bio-medicine” (since 2014)
- **Board of Trustees of the International Society of Chemotherapy (ISC) –** (2013)
- **Rector's Delegate** for the Scientific Research of the University of Catania (2013-2016).
- **Editor in Chief** of Journal of Global Antimicrobial Resistance JGAR (Elsevier) since 2012
- **Editorial Scientific Board:** Section Editor of International Journal Antimicrob Agents since 2006, Annals of Microbiology since 2009, Libyan Journal of Medicine since 2010, Microbiology since 2013
- **Member of the National Board of evaluation of Italian professorship (ASN)** 2013-2014
- **Reviewer:** Journal Chemotherapy, Annals of Microbiology, Medical Science Monitor, Infezioni in Medicina, Research in Microbiology, J. Infectious Diseases, J. Hospital Infections, Expert Opinion in Pharmacology, Key Opinions, Clinical Microbiology and Infection, Journal Antimicrobial Chemotherapy, Microbiology, Future in microbiology, Frontiers in Microbiology.
- **Member of** the sub Committee for antimicrobial resistance EUCAST subcommittee of the ESCMID;
- **Member of the Scientific Board** of: Società Italiana di Microbiologia (SIM); Società Italiana Microbiologia Generale Biotecnologie Microbiche (SIMGBM); Società italiana di microbiologia medica, odontoiatrica e clinica (SIMMOC); Italian Society of Clinical Microbiology (AMCLI); Società Italiana di Chemioterapia (SIC); American Society for Microbiology (ASM), International Society of Chemotherapy (ISC).
- **Scientific Advisory Committee (SAC)** dell' European Society of Clinical Microbiology and Infectious diseases (ESCMID) (until 2012)
- **General Secretary** of Società Mediterranea di Chemioterapia (MSC)
- **Treasure** of 'Accademia Gioenia.(until 2012)
- **Patent N. RM2010A000163 –** SIB B 4106R – Use of *S.salivarius* in the treatment of respiratory infections
- **Consultant** at the University Hospital, under contract with the Cannizzaro hospital for Advanced molecular diagnostics (since 2012)

Projects:

Good experience as principal investigator of Projects funded by National or International Grant Agencies (PRIN, VI and VII FP –EU).

Experience as project evaluator (V, VI FP and VII of the EU) and for the Vinci and Galileo projects (Italy-France cooperation projects)

Experience as project evaluator for the Italian Ministero della Salute. Experience as project evaluator for the Universities of Milan and Naples.

Activity of supervisions of PhD students, Postdoctoral fellows and Research students since 1990.

Research topics:

- Study of the mechanisms of resistance responsible for resistance in Gram-positive and Gram-negative bacteria utilizing PCR and Real Time PCR, designing primers with Vector NTI program and sequencing.
- Expression studies in Staphylococci and their mechanisms of resistance and virulence
- Characterization of mobile genetic elements such as transposons and plasmids carrying resistance determinants; transfer of these elements among Gram-positive bacteria i.e. Staphylococci, Streptococci and Enterococci
- Study of biofilm production in Staphylococci and Pseudomonas
- Study of gene expression and signalling (quorum-sensing)
- Study of *Acinetobacter baumannii* isolated in nosocomial settings: molecular characterization of resistance strains and characterization of the major clones by MLST
- Typing studies in Gram-positive and Gram-negative bacteria by means of ribotyping, PFGE and MLST
- Susceptibility studies to determine the activity of investigational drugs
- Molecular identification of microorganisms (sequencing of 16S r RNA, *tuf*, *soda*)
- Study of Bacterial genomic organization