

curriculum Vitae

Prof.ssa Stefania Stefani

Titolo di studio First class Degree In Biological Sciences (1980)

Carriera accademica: Post .doc in Microbiology and Virology, 1989; Associate Professor 1991- 2001; Full Professor in Microbiology from 2001;

Attuale Posizione accademica: Full Professor of Microbiology

Settore scientifico-disciplinare: BIO/19

Principali insegnamenti tenuti: Applied Molecular Microbiology, Microbiology, Resistance and Pathogenicity,

Titoli accademici e scientifici:

Member of PhD College in “ Advanced Research in transplantation (coordinator)

Rector's Delegate for the Scientific Research of the University of Catania (2013).

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

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) of the European Society of Clinical Microbiology and Infectious diseases (ESCMID)

General Secretary of Società Mediterranea di Chemioterapia (MSC)

Treasurer 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

Progetti: 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.

Ricerca:

- 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.
- 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 the genomic organization of the *Burkholderia cepacia* complex

Pubblicazioni:

1. Cafiso V, Bertuccio T, Spina D, Purrello S, Campanile F, Di Pietro C, Purrello M, Stefani S. Modulating activity of vancomycin and daptomycin on the expression of autolysis cell-wall turnover and membrane charge genes in hVISA and VISA strains. *PLoS One*. 2012;7(1)
2. Santagati M, Scillato M, Patanè F, Aiello C, Stefani S. Bacteriocin-producing oral streptococci and inhibition of respiratory pathogens. *FEMS Immunol Med Microbiol*. 2012 Jun;65(1):23-31. doi: 10.1111/j.1574-695X.2012.00928.x. Epub 2012. Feb 3. PubMed PMID: 22243526.
3. Stefani S, Chung DR, Lindsay JA, Friedrich AW, Kearns AM, Westh H, Mackenzie FM. Meticillin-resistant *Staphylococcus aureus* (MRSA): global epidemiology and harmonisation of typing methods. *Int J Antimicrob Agents*. 2012 Apr;39(4):273-82. Epub 2012 Jan 9. PubMed PMID: 22230333.
4. Sarti M, Campanile F, Sabia C, Santagati M, Gargiulo R, Stefani S. Polyclonal diffusion of beta-lactamase-producing *Enterococcus faecium*. *J Clin Microbiol*. 2012 Jan;50(1):169-72. Epub 2011 Nov 9. PubMed PMID: 22075588; PubMed Central PMCID: PMC3256721
5. Falcone M, Russo A, Pompeo ME, Vena A, Marruncheddu L, Ciccaglioni A, Grossi P, Mancini C, Novelli A, Stefani S, Venditti M. Retrospective case-control analysis of patients with staphylococcal infections receiving daptomycin or glycopeptide therapy. *Int J Antimicrob Agents*. 2012 Jan;39(1):64-8. Epub 2011 Nov 1. PubMed PMID: 22047703
6. Perilli M, Segatore B, Mugnaioli C, Celenza G, Rossolini GM, Stefani S, Luzzaro F, Pini B, Amicosante G. Persistence of TEM-52/TEM-92 and SHV-12 extended-spectrum β -lactamases in clinical isolates of Enterobacteriaceae in Italy. *Microb Drug Resist*. 2011 Dec;17(4):521-4. Epub 2011 Oct 4. PubMed PMID: 21970626
7. Campanile F, Bongiorno D, Falcone M, Vailati F, Pasticci MB, Perez M, Raglio A, Rumpianesi F, Scuderi C, Suter F, Venditti M, Venturelli C, Ravasio V, Codeluppi M, Stefani S. Changing Italian nosocomial-

community trends and heteroresistance in *Staphylococcus aureus* from bacteremia and endocarditis. *Eur J Clin Microbiol Infect Dis*. 2012 May;31(5):739-45. Epub 2011 Aug 7. PubMed PMID:21822974; PubMed Central PMCID: PMC3319882

8. Vena A, Falcone M, Comandini E, Meledandri M, Novelli A, Campanile F, Stefani S, Venditti M. Daptomycin plus trimethoprim/sulfamethoxazole combination therapy in post-neurosurgical meningitis caused by linezolid-resistant *Staphylococcus epidermidis*. *Diagn Microbiol Infect Dis*. 2013 Feb 26. doi:pii: S0732-8893(13)00057-6. 10.1016/j.diagmicrobio.2013.01.021. [Epub ahead of print] PubMed PMID: 23453066.
9. Campanile F, Mongelli G, Bongiorno D, Adembri C, Ballardini M, Falcone M, Menichetti F, Repetto A, Sabia C, Sartor A, Scarparo C, Tascini C, Venditti M, Zoppi F, Stefani S. Worrisome trend in new multiple mechanisms of linezolid-resistant *Staphylococcal* clones diffused in Italy. *J Clin Microbiol*. 2013 Jan 23. [Epub ahead of print] PubMed PMID: 23345292.
10. Gesualdo F, Bongiorno D, Rizzo C, Bella A, Menichella D, Stefani S, Tozzi AE. MRSA Nasal Colonization in Children: Prevalence Meta-Analysis, Review of Risk Factors and Molecular Genetics. *Pediatr Infect Dis J*. 2013 Jan 21. [Epub ahead of print] PubMed PMID: 23340553
11. Campanile F, Mongelli G, Bongiorno D, Adembri C, Ballardini M, Falcone M, Menichetti F, Repetto A, Sabia C, Sartor A, Scarparo C, Tascini C, Venditti M, Zoppi F, Stefani S. Worrisome trend of new multiple mechanisms of linezolid resistance in *staphylococcal* clones diffused in Italy. *J Clin Microbiol*. 2013 Apr;51(4):1256-9. doi: 10.1128/JCM.00098-13. Epub 2013 Jan 23.
12. Vena A, Falcone M, Comandini E, Meledandri M, Novelli A, Campanile F, Stefani S, Venditti M. Daptomycin plus trimethoprim/sulfamethoxazole combination therapy in post-neurosurgical meningitis caused by linezolid-resistant *Staphylococcus epidermidis*. *Diagn Microbiol Infect Dis*. 2013 May;76(1):99-102. doi: 10.1016/j.diagmicrobio.2013.01.021. Epub 2013 Feb 26.
13. Ceccarelli G, Falcone M, Giordano A, Mezzatesta ML, Caio C, Stefani S, Venditti M. Successful Ertapenem-Doripenem Combination Treatment of Bacteremic Ventilator-Associated Pneumonia Due to Colistin-Resistant KPC-Producing *Klebsiella pneumoniae*. *Antimicrob Agents Chemother*. 2013 Jun;57(6):2900-1. doi: 10.1128/AAC.00188-13. Epub 2013 Apr 9.
14. Taglietti F, Principe L, Bordi E, D'Arezzo S, Di Bella S, Falasca L, Piacentini M, Stefani S, Petrosillo N. Telavancin and Daptomycin activity against methicillin-resistant *Staphylococcus aureus* strains after vancomycin resistance selection in vitro. *J Med Microbiol*. 2013 Apr 18.
15. Mezzatesta ML, Gona F, Caio C, Adembri C, Dell'utri P, Santagati M, Stefani S. Emergence of an extensively drug-resistant ArmA- and KPC-2-producing ST101 *Klebsiella pneumoniae* clone in Italy. *J Antimicrob Chemother*. 2013 May 10.