

Prof.ssa Stefania Stefani

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

Current position: Full Professor of Microbiology and Clinical Microbiology N AREA06 MED07

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:

- Clinical position at the Policlinico Hospital UNICT since 2024
- Leader of the Node 3 – AMR – In PNRR project “One Health Basic and Translational Research Actions addressing Unmet Needs on Emerging Infectious Diseases INF-ACT
- Component of the AGENAS board for the “Governance delle Reti della Microbiologia: definizione di modelli organizzativi, 31/08/2023
- President of the School of Medicine, UNICT November 2022- May 2023
- Member of working group for optimal antibiotic prescription - AIFA – since September 2021
- Coordinator of the PhD College “Basic and Applied Biomedical Sciences” since October 2019
- Member of the Technical and Scientific Committee for Coronavirus OCDPC n.630/2020
- President of the Italian Society of Microbiology (SIM) since September 2019
- Member of the National Board of evaluation of Italian professorship (ASN) 2019-2021
- Member of Sicilian board for PNCAR application – Assessorato Regionale alla Sanità,
- DA 870, since May 17, 2018
- Member of the Board of Microbiome and Probiotics- Italian Minister of Health (2018)
- Member of the PhD College “Basic and Applied Biomedical Sciences” (since 2017)
- Consultant at the Policlinico University Hospital for advanced bacteriology (since 2017)
- Member of the Board PNCAR (nominee DD November 3, 2017) Italian Minister of Health
- 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) (since 2016)
- Member of College PhD in “Translational Biomedicine” (2014-2016)
- 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)
 - **Tresaure** 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 (2012-2016)

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); Evaluator of the JPIAMR program (2019); Evaluator of Research project of Minister of research, Bonn (2019) and Dublin (2019-2020) ; Evaluator of Projects AIFA (2019)

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.

Awards – ESCMID fellow and ISAC fellow

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 Acinetobacter 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 and WGS

Publications: (2012-2024)

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 VISAs. *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, Meledandi 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, Meledandi 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.
16. Cacopardo B, Stefani S, Cardi F, Cardi C, Pinzone MR, Nunnari G. Surgical Site Infection by *Corynebacterium macginleyi* in a Patient with Neurofibromatosis Type 1. Case Report Inf Dis 2013; 2013:970678. doi: 10.1155/2013/970678. Epub 2013 May 30.
17. Cafiso V¹, Bertuccio T¹, Purrello S¹, Campanile F¹, Mammina C², Sartor A³, Raglio A⁴, Stefani S⁵. dltA overexpression: A strain-independent keystone of daptomycin resistance in methicillin-resistant *Staphylococcus aureus*. *Int J Antimicrob Agents*. 2014 Jan;43(1):26-31. doi: 10.1016/j.ijantimicag.2013.10.001. Epub 2013 Oct 16.
18. Stefani S, Dowzicky MJ. Longitudinal Assessment of Antimicrobial Susceptibility among Gram-Negative and Gram-Positive Organisms Collected from Italy as Part of the Tigecycline Evaluation and Surveillance Trial between 2004 and 2011. *Pharmaceuticals (Basel)*. 2013 Nov 7;6(11):1381-406. doi: 10.3390/ph6111381.
19. Fagioli S¹, Colli A², Bruno R³, Craxì A⁴, Gaeta GB⁵, Grossi P⁶, Mondelli MU⁷, Puoti M⁸, Sagnelli E⁹, Stefani S¹⁰, Toniutto P¹¹, Burra P¹²; 2011 AISF Single Topic Group. Management of infections pre- and post-liver transplantation: Report of an AISF consensus conference. *J Hepatol*. 2013 Dec 30. pii: S0168-8278(13)00890-8. doi: 10.1016/j.jhep.2013.12.021.
20. Gesualdo F¹, Onori M, Bongiorno D, Campanile F, Carloni E, Mancinelli L, Russo C, Villani A, Valentini D, Raponi M, Tozzi AE, Stefani S. Methicillin-resistant *Staphylococcus aureus* nasal colonization in a department of pediatrics: a cross-sectional study. *Ital J Pediatr*. 2014 Jan 10;40:3. doi: 10.1186/1824-7288-40-3.
21. Cascio A¹, Mezzatesta ML², Odierna A³, Di Bernardo F⁴, Barberi G⁵, Iaria C⁶, Stefani S², Giordano S. Extended-spectrum beta-lactamase-producing and carbapenemase-producing *Enterobacter cloacae* ventriculitis successfully treated with intraventricular colistin S2014 Mar;20:66-7. doi: 10.1016/j.ijid.2013.11.012.
22. Gona F¹, Barbera F, Pasquariello AC, Grossi P, Gridelli B, Mezzatesta ML, Caio C, Stefani S, Conaldi PG. In vivo multiclonal transfer of blaKPC -3 from *Klebsiella pneumoniae* to *Escherichia coli* in surgery patients. *Clin Microbiol Infect*. 2014 Jan 30. doi: 10.1111/1469-0691.12577. [Epub ahead of print]
23. Santagati M, Spanu T, Scillato M, Santangelo R, Cavallaro F, Arena V, Castiglione G, Falcone M, Venditti M, Stefani S. Rapidly fatal hemorrhagic pneumonia and group A *Streptococcus* serotype M1. *Emerg Infect Dis*. 2014 Jan;20(1):98-101. doi: 10.3201/eid2001.130233.
24. Corcione S¹, Motta I, Fossati L, Campanile F, Stefani S, Cavallo R, Di Perri G, Ranieri VM, De Rosa FG. Molecular epidemiology of methicillin-resistant *S. aureus* in the ICU setting. *Intensive Care Med*. 2014 Mar 14. [Epub ahead of print]
25. Principe L, Piazza A, Giani T, Bracco S, Caltagirone MS, Arena F, Nucleo E, Tammaro F, Rossolini GM, Pagani L, Luzzaro F, AMCLI CRAB survey participants. Epidemic diffusion of oxa-23 producing *A.baumannii* isolates in Italy: results of the first cross-sectional countrywide survey. *J.Clin Microbiol* 2014; 52(8): 3004
26. Falcone M, Vena A, Mezzatesta ML, Gona F, Cacio C, Goldoni P, Trancassini AM, Conti C, Orsi GB, Carfagna P, Stefani S, Venditti M. Role of empirical and targeted therapy in hospitalized

patients with bloodstream infections caused by ESBL-producing Enterobacteria. *An Ig* 2014; 26(4): 293

27. Mezzatesta ML, Caio C, Gona F, Cormaci R, Salerno I, Zingali T, Denaro C, Gennaro M, Quattrone C, Stefani S. Carbapenem and multidrug resistance in Gram-negative bacteria in a single center in Italy: considerations on in vitro assay of active drugs. *Int J Antimicrob Agents* 2014; 44: 112-116
28. Matteo Bassetti^{1*}, Elda Righi¹, Gennaro De Pascale², Raffaele De Gaudio³, Antonino Giarratano⁴, Teresita Mazzei⁵, Giulia Morace⁶, Nicola Petrosillo⁷, Stefania Stefani⁸ and Massimo Antonelli² How to manage aspergillosis in non-neutropenic intensive care unit patients. *Crit Care* 2014; 18(4): 458
29. Corno G, Coci M, Giardina M, Plechiuk S, Campanile F, Stefani S. Antibiotics promote aggeragation within aquatic bacterial communities. *Front. Microbiol* 2014; 1; 5: 297
30. Nagendra N, Mishra, Arnold S, Bayer , Christopher Weidenmaier, Timo Grau, Stefanie Wanner, Stefania Stefani, Viviana Cafiso Taschia Bertuccio, Michael R. Yeaman, Cynthia C. Nast, Soo-Jin Yan Phenotypic and Genotypic Characterization of Daptomycin-Resistant Methicillin-Resistant *Staphylococcus aureus* Strains: Relative Roles of mprF and dlt Operons *PLoS One* 2014 Sep 16;9(9):e107426
31. Iannelli F., Santagati M, Santoro F, Oggioni MR, Stefani S, Pozzi G. Nucleotide sequence of conjutive prophage Phi 1207.3 (formerly Tn1207.3) carrying the mefA/msrD genes for efflux resistance to macrolides in *Streptococcus pyogenes*. *Front Microbiol* 2014 Dec 9; 5: 687
32. Alessandro Russo^a, Floriana Campanile^{b, 1}, Marco Falcone^a, Carlo Tascini^c, Matteo Bassetti^d, Paola Goldoni^a, Maria Trancassini^a, Paola Della Siega^d, Francesco Menichetti^c, Stefania Stefani^b, Mario Venditti^a. Linezolid-resistant staphylococcal bacteraemia: A multicentre case-case-control study in Italy. *In J Antimicrob Agents* 2015; Mar;45(3):255-61.
33. Marchisio P, Santagati M, Scillato M, Baggi E, Fattizzo M, Rosazza C, Stefani S, Esposito S, Principi N. *Streptococcus salivarius* 24SMB administered by nasal spray for the prevention of acute otitis media in otitis-prone children.
Eur J Clin Microbiol Infect Dis. 2015 Sep 18. [Epub ahead of print]
34. Mongelli G, Bongiorno D, Agosta M, Benvenuto S, Stefani S, Campanile F. High Resolution Melting-Typing (HRMT) of methicillin-resistant *Staphylococcus aureus* (MRSA): The new frontier to replace multi-locus sequence typing (MLST) for epidemiological surveillance studies. *J Microbiol Methods.* 2015 Oct;117:136-8. doi: 10.1016/j.mimet.2015.08.001. Epub 2015 Aug 5.
35. Santagati M, Scillato M, Muscaridola N, Metoldo V, La Mantia I, Stefani S. Colonization, safety, and tolerability study of the *Streptococcus salivarius* 24SMBc nasal spray for its application in upper respiratory tract infections.
Eur J Clin Microbiol Infect Dis. 2015 Oct;34(10):2075-80. doi: 10.1007/s10096-015-2454-2. Epub 2015 Jul 24.
36. Stefani S, Campanile F, Santagati M, Mezzatesta ML, Cafiso V, Pacini G. Insights and clinical perspectives of daptomycin resistance in *Staphylococcus aureus*: A review of the available evidence. *Int J Antimicrob Agents.* 2015 Sep;46(3):278-89. doi: 10.1016/j.ijantimicag.2015.05.008. Epub 2015 Jun 19. Review.
37. Parisi SG, Bartolini A, Santacatterina E, Castellani E, Ghirardo R, Berto A, Franchin E, Menegotto N, De Canale E, Tommasini T, Rinaldi R, Basso M, Stefani S, Palù G. Prevalence of *Klebsiella pneumoniae* strains producing carbapenemases and increase of resistance to colistin in an Italian teaching hospital from January 2012 To December 2014.

38. Mongelli G, Romeo MA, Denaro C, Gennaro M, Fraggetta F, Stefani S.

Added value of multi-pathogen probe-based real-time PCR SeptiFast in the rapid diagnosis of bloodstream infections in patients with bacteraemia.

J Med Microbiol. 2015 Jul;64(7):670-5. doi: 10.1099/jmm.0.000074. Epub 2015 Apr 29.

39. Berendonk TU, Manaia CM, Merlin C, Fatta-Kassinos D, Cytryn E, Walsh F, Bürgmann H, Sørum H, Norström M, Pons MN, Kreuzinger N, Huovinen P, Stefani S, Schwartz T, Kisand V, Baquero F, Martinez JL.

Tackling antibiotic resistance: the environmental framework.

Nat Rev Microbiol. 2015 May;13(5):310-7. doi: 10.1038/nrmicro3439. Epub 2015 Mar 30.

40. Russo A, Campanile F, Falcone M, Tascini C, Bassetti M, Goldoni P, Trancassini M, Della Siega P, Menichetti F, Stefani S, Venditti M.

Linezolid-resistant staphylococcal bacteraemia: A multicentre case-case-control study in Italy.

Int J Antimicrob Agents. 2015 Mar;45(3):255-61. doi: 10.1016/j.ijantimicag.2014.12.008. Epub 2014 Dec 30.

41. Floriana Campanile, Dafne Bongiorno, Marianna Perez, Gino Mongelli, Laura Sessa, Sabrina Benvenuto, Floriana Gona, AMCLI – *S. aureus* Survey Participants, Pietro E. Varaldo, Stefania Stefani. Epidemiology of *Staphylococcus aureus* in Italy: First nationwide survey, 2012. Journal of Global Antimicrobial Resistance 07/2015; 169:1-8. DOI: 10.1016/j.jgar.2015.06.006.

42. Mezzatesta ML, Caio C, Gona F, Zingali T, Salerno I, Stefani S. Colistin Increases the Cidal Activity of Antibiotic Combinations Against Multidrug-Resistant *Klebsiella pneumoniae*: An In Vitro Model Comparing Multiple Combination Bactericidal Testing at One Peak Serum Concentration and Time-Kill Method. Microb Drug Resist. 2016 Feb 24. [Epub ahead of print]

43. Marco Falcone, Ercole Concia, Massimo Giusti, Antonino Mazzone, Claudio Santini, Stefania Stefani, Francesco Violi - Acute bacterial skin and skin structure infections in internal medicine wards: old and new drugs - Intern Emerg Med 2016, April [Epub ahead of print]

44. Cantón R, Livermore DM, Morosini MI, Díaz-Regañón J, Rossolini GM; PREMIUM Study Group. Etest® versus broth microdilution for ceftaroline MIC determination with *Staphylococcus aureus*: results from PREMIUM, a European multicentre study. J. Antimicrob Chemother. 2016 Oct pii: dkw442. [Epub ahead of print] PubMed PMID: 27798220.

20.

45. Salmeri M, Sorbello MG, Mastrojeni S, Santanocita A, Milazzo M, Di Stefano G, Scalia M, Addamo A, Toscano MA, Stefani S, Mezzatesta ML. Infections of cardiovascular implantable electronic devices: 14 years of experience in an Italian hospital. Infez Med. 2016 Jun 1;24(2):131-6. PubMed PMID: 27367323

46. Lamanna O, Bongiorno D, Bertoncello L, Grandesso S, Mazzucato S, Pozzan GB, Cutrone M, Chirico M, Baesso F, Brugnaro P, Cafiso V, Stefani S, Campanile F. Rapid containment of nosocomial transmission of a rare community-acquired methicillin-resistant *Staphylococcus aureus* (CA-MRSA) clone, responsible for the Staphylococcal Scalded Skin Syndrome (SSSS). Ital J Pediatr. 2017 Jan 6;43(1):5. doi: 10.1186/s13052-016-0323-y. PubMed PMID: 28061866; PubMed Central PMCID: PMC5217574.

47. Stefani S, Dowzicky MJ. Assessment of the Activity of Tigecycline against Gram-Positive and Gram-Negative Organisms Collected from Italy between 2012 and 2014, as Part of the Tigecycline Evaluation and Surveillance Trial (T.E.S.T.). Pharmaceuticals (Basel). 2016 Nov 26;9(4). pii: E74. PubMed PMID: 27898030; PubMed Central PMCID: PMC5198049.

48. Santagati M, Scillato M, Stefani S. Genetic organization of *Streptococcus salivarius* 24SMBc blp-like bacteriocin locus. *Front Biosci (Schol Ed)*. 2018 Jan 1;10:238-247. PubMed PMID: 28930530.
49. Gona F, Caio C, Iannolo G, Monaco F, Di Mento G, Cuscino N, Fontana I, Panarello G, Maugeri G, Mezzatesta ML, Stefani S, Conaldi PG. Detection of the lncX3 plasmid carrying blaKPC-3 in a *Serratia marcescens* strain isolated from a kidney-liver transplanted patient. *J Med Microbiol*. 2017 Oct;66(10):1454-1456. doi: 10.1099/jmm.0.000592. Epub 2017 Sep 18. PubMed PMID: 28920846.
50. Gugliandolo A, Caio C, Mezzatesta ML, Rifici C, Bramanti P, Stefani S, Mazzon E. Successful ceftazidime-avibactam treatment of MDR-KPC-positive *Klebsiella pneumoniae* infection in a patient with traumatic brain injury: A case report. *Medicine (Baltimore)*. 2017 Aug;96(31):e7664. doi: 10.1097/MD.0000000000007664. PubMed PMID: 28767588; PubMed Central PMCID: PMC5626142.
51. Bartolini A, Basso M, Franchin E, Menegotto N, Ferrari A, De Canale E, Andreis S, Scaggiante R, Stefani S, Palù G, Parisi SG. Prevalence, molecular epidemiology and intra-hospital acquisition of *Klebsiella pneumoniae* strains producing carbapenemases in an Italian teaching hospital from January 2015 to September 2016. *Int J Infect Dis*. 2017 Jun; 59:103-109. doi: 10.1016/j.ijid.2017.04.007. Epub 2017 Apr 12. PubMed PMID: 28412407.
52. Mezzatesta ML, La Rosa G, Maugeri G, Zingali T, Caio C, Novelli A, Stefani S. In vitro activity of fosfomycin trometamol and other oral antibiotics against multidrug-resistant uropathogens. *Int J Antimicrob Agents*. 2017 Jun;49(6):763-766. doi: 10.1016/j.ijantimicag.2017.01.020. Epub 2017 Apr 5. PubMed PMID: 28390962.
53. Stefani S, Xu YC, Hsueh PR, Gould IM. Editorial. *J Glob Antimicrob Resist*. 2017 Mar;8:A1. doi: 10.1016/j.jgar.2017.02.001. Epub 2017 Mar 4. PubMed PMID: 28377106.
54. Blasi F, Concia E, Del Prato B, Giusti M, Mazzei T, Polistena B, Rossi A, Stefani S, Novelli A; On behalf of the *MASTER working group. The most appropriate therapeutic strategy for acute lower respiratory tract infections: a Delphi-based approach. *J Chemother*. 2017 Oct;29(5):274-286. doi: 0.1080/1120009X.2017.1291467. Epub 2017 Mar 15. PubMed PMID: 28298164.
54. Lamanna O, Bongiorno D, Bertoncello L, Grandesso S, Mazzucato S, Pozzan GB, Cutrone M, Chirico M, Baesso F, Brugnaro P, Cafiso V, Stefani S, Campanile F. Rapid containment of nosocomial transmission of a rare community-acquired methicillin-resistant *Staphylococcus aureus* (CA-MRSA) clone, responsible for the Staphylococcal Scalded Skin Syndrome (SSSS). *Ital J Pediatr*. 2017 Jan 6;43(1):5. doi: 10.1186/s13052-016-0323-y. PubMed PMID: 28061866; PubMed Central PMCID: PMC5217574.
55. Santagati M, Scillato M, Stefani S. Genetic organization of *Streptococcus salivarius* 24SMBc blp-like bacteriocin locus. *Front Biosci (Schol Ed)*. 2018 Jan 1;10:238-247. PubMed PMID: 28930530.
56. Caio C, Maugeri G, Zingali T, Gona F, Stefani S, Mezzatesta ML. Extensively drug-resistant *Acinetobacter baumannii* in an Italian intensive care unit. *New Microbiol*. 2018 Jan 9;41(1). [Epub ahead of print] PubMed PMID: 29313866.
57. Bressan R, Knezevich A, Monticelli J, Campanile F, Busetti M, Santagati M, Dolzani L, Milan A, Bongiorno D, Di Santolo M, Tonin EA, Stefani S, Luzzati R, Lagatolla C. Spread of Vancomycin-Resistant *Enterococcus faecium* Isolates Despite Validated Infection Control Measures in an Italian Hospital: Antibiotic Resistance and Genotypic Characterization of the Endemic Strain. *Microb Drug Resist*. 2018 Jan 26. doi: 10.1089/mdr.2017.0314. [Epub ahead of print] PubMed PMID: 29373085.
58. Concia E, Viscoli C, Del Bono V, Giannella M, Bassetti M, De Rosa GF, Durante Mangoni E, Esposito S, Giusti M, Grossi P, Menichetti F, Pea F, Petrosillo N, Tumbarello M, Stefani S, Venditti M, Viale P; group of Italian Experts. The current role of glycopeptides in the treatment of methicillin-

resistant *Staphylococcus aureus* (MRSA) infections in not neutropenic adults: the viewpoint of a group of Italian experts. *J Chemother.* 2018 May;30(3):157-171. doi:10.1080/1120009X.2017.1420610. Epub 2018 Jan 30. PubMed PMID: 29380676.

60. Papst L, Beović B, Pulcini C, Durante-Mangoni E, Rodríguez-Baño J, Kaye KS, Daikos GL, Raka L, Paul M; ESGAP, ESGBIS, ESGIE and the CRGNB treatment survey study group. Antibiotic treatment of infections caused by carbapenem-resistant Gram-negative bacilli: an international ESCMID cross-sectional survey among infectious diseases specialists practicing in large hospitals. *Clin Microbiol Infect.* 2018 Feb 1. pii: S1198-743X(18)30069-7. doi: 10.1016/j.cmi.2018.01.015. [Epub ahead of print] PubMed PMID: 29410094
61. Gona F, Bongiorno D, Aprile A, Corazza E, Pasqua B, Scuderi MG, Chiacchiaretta M, Cirillo DM, Stefani S, Mezzatesta ML. Emergence of two novel sequence types (3366 and 3367) NDM-1- and OXA-48-co-producing *K. pneumoniae* in Italy. *Eur J Clin Microbiol Infect Dis.* 2019 Jun 5. doi: 10.1007/s10096-019-03597-w. [Epub ahead of print] PubMed PMID: 31165962.
62. Granata G, Stracquadanio S, Consoli GML, Cafiso V, Stefani S, Geraci C. Synthesis of a calix[4]arene derivative exposing multiple units of fucose anpreliminary investigation as a potential broad-spectrum antibiofilm agent. *Carbohydr Res.* 2019 Apr 1;476:60-64. doi: 10.1016/j.carres.2019.03.005. Epub 2019 Mar 13. PubMed PMID: 30913401.
63. Andaloro C, Santagati M, Stefani S, La Mantia I. Bacteriotherapy with *Streptococcus salivarius* 24SMB and *Streptococcus oralis* 89a oral spray for children with recurrent streptococcal pharyngotonsillitis: a randomized placebo-controlled clinical study. *Eur Arch Otorhinolaryngol.* 2019 Mar;276(3):879-887. doi: 10.1007/s00405-019-05346-3. Epub 2019 Feb 15. PubMed PMID: 30767047.
64. Vivarelli S, Salemi R, Candido S, Falzone L, Santagati M, Stefani S, Torino F, Banna GL, Tonini G, Libra M. Gut Microbiota and Cancer: From Pathogenesis to Therapy. *Cancers (Basel).* 2019 Jan 3;11(1). pii: E38. doi: 10.3390/cancers11010038. Review. PubMed PMID: 30609850; PubMed Central PMCID: PMC6356461.
65. Campanile F, Bongiorno D, Mongelli G, Zanghì G, Stefani S. Bactericidal activity of ceftobiprole combined with different antibiotics against selected Gram-positive isolates. *Diagn Microbiol Infect Dis.* 2019 Jan;93(1):77-81. doi: 10.1016/j.diagmicrobio.2018.07.015. Epub 2018 Sep 14. PubMed PMID: 30291042.
66. Iannelli F, Santoro F, Santagati M, Docquier JD, Lazzeri E, Pastore G, Cassone M, Oggioni MR, Rossolini GM, Stefani S, Pozzi G. Type M Resistance to Macrolides Is Due to a Two-Gene Efflux Transport System of the ATP-Binding Cassette (ABC) Superfamily. *Front Microbiol.* 2018 Jul 31;9:1670. doi: 10.3389/fmicb.2018.01670. eCollection 2018. PubMed PMID: 30108557; PubMed Central PMCID: PMC6079230.
67. Giani T, Antonelli A, Sennati S, Di Pilato V, Chiarelli A, Cannatelli A, Gatsch C, Luzzaro F, Spanu T, Stefani S, Rossolini GM. Results of the Italianinfection-Carbapenem Resistance Evaluation Surveillance Trial (iCREST-IT):activity of ceftazidime/avibactam against Enterobacteriales isolated from urine. *J. Antimicrob Chemother.* 2020 Jan 20. pii: dkz547. doi: 10.1093/jac/dkz547. [Epub ahead of print] PubMed PMID: 31958125.
68. Stracquadanio S, Lo Verde F, Cialfi A, Zega A, Stefani S, Cafiso V. Titration of IgG contained in an intravenous IgM-enriched preparation against selected pathogens involved in sepsis. *Immunobiology.* 2019 Dec 14;151897. doi:10.1016/j.imbio.2019.12.006. [Epub ahead of print] PubMed PMID: 31864730.
69. Dhaouadi S, Soufi L, Campanile F, Dhaouadi F, Sociale M, Lazzaro L, Cherif A, Stefani S, Elandoulsi RB. Prevalence of meticillin-resistant and -susceptible coagulase-negative staphylococci

with the first detection of the *mecC* gene among cows, humans and manure in Tunisia. *Int J Antimicrob Agents.* 2020 Jan;55(1):105826. doi: 10.1016/j.ijantimicag.2019.10.007. Epub 2019 Oct 18. PubMed PMID: 31634550.

70. De Pasquale R, Pulvirenti J, Messina AMI, Lombardo F, Stefani S, Scalia G, Patamia I. Myiasis from *Sarcophaga* spp in a patient with cutaneous lymphoma. *Infekz Med.* 2019 Sep 1;27(3):340-344. PubMed PMID: 31545781.
71. Aprile A, Caio C, Gona F, Stefani S, Mezzatesta ML. In vitro evidence of the synergistic interaction of ceftobiprole and other antibiotics against multidrug-resistant Gram-negative isolates. *Diagn Microbiol Infect Dis.* 2019 Dec;95(4):114884. doi: 10.1016/j.diagmicrobio.2019.114884. Epub 2019 Aug 7. PubMed PMID: 31493944.
72. Dafne B, Gino M, Stefania S, Floriana C. Genotypic analysis of Italian MRSA strains exhibiting low-level ceftaroline and ceftobiprole resistance. *Diagn Microbiol Infect Dis.* 2019 Nov;95(3):114852. doi:10.1016/j.diagmicrobio.2019.06.004. Epub 2019 Jun 15. PubMed PMID: 31288948.
73. Gona F, Bongiorno D, Aprile A, Corazza E, Pasqua B, Scuderi MG, Chiacchiarella M, Cirillo DM, Stefani S, Mezzatesta ML. Emergence of two novel sequence types (3366 and 3367) NDM-1- and OXA-48-co-producing *K. pneumoniae* in Italy. *Eur J Clin Microbiol Infect Dis.* 2019 Sep;38(9):1687-1691. doi: 10.1007/s10096-019-03597-w. Epub 2019 Jun 5. PubMed PMID: 31165962.
74. Granata G, Stracquadanio S, Consoli GML, Cafiso V, Stefani S, Geraci C. Synthesis of a calix[4]arene derivative exposing multiple units of fucose and preliminary investigation as a potential broad-spectrum antibiofilm agent. *Carbohydr Res.* 2019 Apr 1;476:60-64. doi: 10.1016/j.carres.2019.03.005. Epub 2019 Mar 13. PubMed PMID: 30913401.
75. Andaloro C, Santagati M, Stefani S, La Mantia I. Bacteriotherapy with *Streptococcus salivarius* 24SMB and *Streptococcus oralis* 89a oral spray for children with recurrent streptococcal pharyngotonsillitis: a randomized placebo-controlled clinical study. *Eur Arch Otorhinolaryngol.* 2019 Mar;276(3):879-887. doi: 10.1007/s00405-019-05346-3. Epub 2019 Feb 15. PubMed PMID: 30767047.
76. Cafiso V, Stracquadanio S, Lo Verde F, Gabriele G, Mezzatesta ML, Caio C, Pigola G, Ferro A, Stefani S. Colistin Resistant *A. baumannii*: Genomic and Transcriptomic Traits Acquired Under Colistin Therapy. *Front Microbiol.* 2019 Jan 7;9:3195. doi: 10.3389/fmicb.2018.03195. eCollection 2018. PubMed PMID: 30666237; PubMed Central PMCID: PMC6330354.
77. Bongiorno D, Musso N, Lazzaro LM, Mongelli G, Stefani S, Campanile F. Detection of methicillin-resistant *Staphylococcus aureus* persistence in osteoblasts using imaging flow cytometry. *Microbiologyopen.* 2020 Apr 1:e1017. doi: 10.1002/mbo3.1017. [Epub ahead of print] PubMed PMID: 32237200.
78. Raoult D, Hsueh PR, Stefani S, Rolain JM. COVID-19 Therapeutic and Prevention. *Int J Antimicrob Agents.* 2020 Mar 7:105937. doi: 10.1016/j.ijantimicag.2020.105937. [Epub ahead of print] PubMed PMID: 32151714; PubMed Central PMCID: PMC7135736.
79. Soriano A, Stefani S, Pletz MW, Menichetti F; Italian Group for Antimicrobial Stewardship (GISA). Antimicrobial stewardship in patients with acute bacterial skin and skin structures infections: an international Delphi consensus. *J Glob Antimicrob Resist.* 2020 Feb 14. pii: S2213-7165(20)30031-X. doi: 10.1016/j.jgar.2020.02.002. [Epub ahead of print] Review. PubMed PMID: 32068092.
80. Sganga G, Pea F, Aloj D, Corcione S, Pierangeli M, Stefani S, Rossolini GM, Menichetti F. Acute wound infections management: the 'Don'ts' from a multidisciplinary expert panel. *Expert Rev Anti Infect Ther.* 2020 Mar;18(3):231-240. doi: 10.1080/14787210.2020.1726740. Epub 2020 Feb 17. PubMed PMID: 32022606.

81. Galli L, Novelli A, Ruggiero G, Stefani S, Fortina AB. Pediatric impetigo: an expert panel opinion about its main controversies. *J Chemother.* 2021 Aug; 18:1-7. doi: 10.1080/1120009X.2021.1961185. Epub ahead of print. PMID: 34405763.
82. Granata G, Stracquadanio S, Leonardi M, Napoli E, Malandrino G, Cafiso V, Stefani S, Geraci C. Oregano and Thyme Essential Oils Encapsulated in ChitosanNanoparticles as Effective Antimicrobial Agents against Foodborne Pathogens. *Molecules.* 2021 Jul 2;26(13):4055. doi: 10.3390/molecules26134055. PMID:34279395; PMCID: PMC8271874.
83. Musso N, Falzone L, Stracquadanio S, Bongiorno D, Salerno M, Esposito M, Sessa F, Libra M, Stefani S, Pomara C. Post-Mortem Detection of SARS-CoV-2 RNA in Long-Buried Lung Samples. *Diagnostics (Basel).* 2021 Jun 24;11(7):1158. doi:10.3390/diagnostics11071158. PMID: 34202678; PMCID: PMC8304625.
84. Falcone M, De Angelis B, Pea F, Scalise A, Stefani S, Tasinato R, Zanetti O, Dalla Paola L. Challenges in the management of chronic wound infections. *J Glob Antimicrob Resist.* 2021 Jun 16;26:140-147. doi: 10.1016/j.jgar.2021.05.010. Epub ahead of print. PMID: 34144200.
85. Mularoni A, Mezzatesta ML, Pilato M, Medaglia AA, Cervo A, Bongiorno D, Aprile A, Luca A, Stefani S, Grossi P. Combination of aztreonam, ceftazidime-avibactam and amikacin in the treatment of VIM-1 *Pseudomonas aeruginosa* ST235 osteomyelitis. *Int J Infect Dis.* 2021 Jul; 108:510-512. doi: 10.1016/j.ijid.2021.05.085. Epub 2021 Jun 4. PMID: 34091004.
86. Trovato L, Bongiorno D, Calvo M, Migliorisi G, Boraccino A, Musso N, Oliveri S, Stefani S, Scalia G. Resistance to Echinocandins Complicates a Case of *Candida albicans* Bloodstream Infection: A Case Report. *J Fungi (Basel).* 2021 May 21;7(6):405. doi: 10.3390/jof7060405. PMID: 34064200; PMCID:PMC8224343.
87. Stracquadanio S, Torti E, Longshaw C, Henriksen AS, Stefani S. In vitro activity of cefiderocol and comparators against isolates of Gram-negative pathogens from a range of infection sources: SIDERO-WT-2014-2018 studies in Italy. *J Glob Antimicrob Resist.* 2021 Jun; 25:390-398. doi: 10.1016/j.jgar.2021.04.019. Epub 2021 May 18. PMID: 34020073.
88. Tiseo G, Arena F, Borrè S, Campanile F, Falcone M, Mussini C, Pea F, Sganga G, Stefani S, Venditti M. Diagnostic stewardship based on patient profiles: differential approaches in acute versus chronic infectious syndromes. *Expert Rev Anti Infect Ther.* 2021 May 14:1-11. doi: 10.1080/14787210.2021.1926986. Epub ahead of print. PMID: 33970746.
89. Scillato M, Spitale A, Mongelli G, Privitera GF, Mangano K, Cianci A, Stefani S, Santagati M. Antimicrobial properties of *Lactobacillus* cell-free supernatants against multidrug-resistant urogenital pathogens. *Microbiologyopen.* 2021 Feb;10(2):e1173. doi: 10.1002/mbo3.1173. PMID: 33970542.
90. Bongiorno D, Musso N, Caruso G, Lazzaro LM, Caraci F, Stefani S, Campanile F. *Staphylococcus aureus* ST228 and ST239 as models for expression studies of diverse markers during osteoblast infection and persistence. *Microbiologyopen.* 2021 Mar;10(2):e1178. doi: 10.1002/mbo3.1178. PMID: 33970534; PMCID: PMC8087985.
91. Stracquadanio S, Musso N, Costantino A, Lazzaro LM, Stefani S, Bongiorno D. *Staphylococcus aureus* Internalization in Osteoblast Cells: Mechanisms, Interactions and Biochemical Processes. What Did We Learn from Experimental Models? *Pathogens.* 2021 Feb 19;10(2):239. doi: 10.3390/pathogens10020239. PMID: 33669789; PMCID: PMC7922271.
92. Tessarolo F, Nollo G, Maniglio D, Rigoni M, Benedetti L, Helfer F, Corradi I, Rovati L, Ferrari A, Piccini M, Accorsi L, Veronesi E, Cuoghi A, Baglio S, Tuccitto N, Stefani S, Stracquadanio S, Caraci F, Terrasi A, Tricomi A, Musumeci M, Miraglia A, Cuttone G, Cosentino S, Muscas C, Vitali LA, Petrelli D,

Angrisani L, Colicchio R, D'Anna A, Iavicoli I, De Falco G, Di Natale F, Di Maio E, Salvatore P, Quaglia F, Mingoia M, Castellini P, Chiariotti P, Simoni S, Montalto L, Baleani A, Paone N. Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. *Int J Environ Res Public Health.* 2021 Feb 4;18(4):1462. doi: 10.3390/ijerph18041462. PMID: 33557403; PMCID: PMC7915703.

93. Cafiso V, Lo Verde F, Zega A, Pigola G, Rostagno R, Borrè S, Stefani S. Genomic Characterization of a New Biofilm-Forming and Adhesive ST398 Human-Adapted MSSA Lineage Causing Septic Knee Arthritis Following Surgical Reconstruction. *Microorganisms.* 2021 Feb 2;9(2):305. doi: 10.3390/microorganisms9020305. PMID: 33540689; PMCID: PMC7913009.

94. Musso N, Caruso G, Bongiorno D, Grasso M, Bivona DA, Campanile F, Caraci F, Stefani S. Different Modulatory Effects of Four Methicillin-Resistant *Staphylococcus aureus* Clones on MG-63 Osteoblast-Like Cells. *Biomolecules.* 2021 Jan 7;11(1):72. doi: 10.3390/biom11010072. PMID: 33430251; PMCID: PMC7825699.

95. Antonelli G, Stefani S, Pistello M. SARS-CoV-2 diagnostics: Some reflections on current assays. *Diagn Microbiol Infect Dis.* 2021 Feb;99(2):115237. doi: 10.1016/j.diagmicrobio.2020.115237. Epub 2020 Oct 7. PMID: 33130508; PMCID: PMC7538382.

96. Cannarella R, Musso N, Condorelli RA, Musmeci M, Stefani S, La Vignera S, Calogero AE. Combined Effects of the <i>FSHR</i> 2039 A/G and <i>FSHR</i> -29 G/A Polymorphisms on Male Reproductive Parameters. *World J Mens Health.* 2021 Jul;39(3):516-525. doi: 10.5534/wjmh.200070. Epub 2020 Sep 28. PMID: 33151046; PMCID: PMC8255408.

97. Bongiorno D, Musso N, Bonacci PG, Bivona DA, Massimino M, Stracquadanio S, Bonaccorso C, Fortuna CG, Stefani S. Heteroaryl-Ethylenes as New Lead Compounds n the Fight against High Priority Bacterial Strains. *Antibiotics (Basel).* 2021 Aug 25;10(9):1034. doi: 10.3390/antibiotics10091034. PMID: 34572616; PMCID: PMC8466554.

98. Tessarolo F, Nollo G, Maniglio D, Rigoni M, Benedetti L, Helfer F, Corradi I, Rovati L, Ferrari A, Piccini M, Accorsi L, Veronesi E, Cuoghi A, Baglio S, Tuccitto N, Stefani S, Stracquadanio S, Caraci F, Terrasi A, Tricomi A, Musumeci M, Miraglia A, Cuttone G, Cosentino S, Muscas C, Vitali LA, Petrelli D, Angrisani L, Colicchio R, D'Anna A, Iavicoli I, De Falco G, Di Natale F, Di Maio E, Salvatore P, Quaglia F, Mingoia M, Castellini P, Chiariotti P, Simoni S, Montalto L, Baleani A, Paone N. Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. *Int J Environ Res Public Health.* 2021 Feb 4;18(4):1462. doi: 0.3390/ijerph18041462. PMID: 33557403; PMCID: PMC7915703.

99. Granata G, Stracquadanio S, Leonardi M, Napoli E, Malandrino G, Cafiso V, Stefani S, Geraci C. Oregano and Thyme Essential Oils Encapsulated in Chitosan Nanoparticles as Effective Antimicrobial Agents against Foodborne Pathogens. *Molecules.* 2021 Jul 2;26(13):4055. doi: 10.3390/molecules26134055. PMID: 34279395; PMCID: PMC8271874.

100. Falzone L, Musso N, Gattuso G, Bongiorno D, Palermo CI, Scalia G, Libra M, Stefani S. Sensitivity assessment of droplet digital PCR for SARS-CoV-2 detection. *Int J Mol Med.* 2020 Sep;46(3):957-964. doi: 10.3892/ijmm.2020.4673. Epub 2020 Jul 13. PMID: 32705153; PMCID: PMC7388836.

101. Tiseo G, Brigante G, Giacobbe DR, Maraolo AE, Gona F, Falcone M, Giannella M, Grossi P, Pea F, Rossolini GM, Sanguinetti M, Sarti M, Scarparo C, Tumbarello M, Venditti M, Viale P, Bassetti M, Luzzaro F, Menichetti F, Stefani S, Tinelli M. Diagnosis and management of infections caused by multidrug-resistant bacteria: guideline endorsed by the Italian Society of Infection and Tropical Diseases (SIMIT), the Italian Society of Anti-Infective Therapy (SITA), the Italian Group for Antimicrobial Stewardship (GISA), the Italian Association of Clinical Microbiologists (AMCLI) and the

Italian Society of Microbiology (SIM). Int J Antimicrob Agents. 2022 Aug;60(2):106611. doi: 10.1016/j.ijantimicag.2022.106611. Epub 2022 Jun 11. PMID: 35697179.

102. Russo GI, Bongiorno D, Bonomo C, Musso N, Stefani S, Sokolakis I, Hatzichristodoulou G, Falcone M, Cai T, Smarrazzo F, Verze P; EAU-YAU Sexual and Reproductive Health Group. The relationship between the gut microbiota, benign prostatic hyperplasia, and erectile dysfunction. Int J Impot Res. 2022 Apr 13. doi: 10.1038/s41443-022-00569-1. Epub ahead of print. Erratum in: Int J Impot Res. 2022 Jul 5;; PMID: 35418604.
- 103: Antonino M, Nicolò M, Jerome Renee L, Federico M, Chiara V, Stefano S, Maria S, Salvatore C, Antonio B, Calvo-Henriquez C, Stefania S, La Mantia I. Single- nucleotide polymorphism in chronic rhinosinusitis: A systematic review. Clin Otolaryngol. 2022 Jan;47(1):14-23. doi: 10.1111/coa.13870. Epub 2021 Nov 7. PMID: 34599556.
- 104: Galli L, Novelli A, Ruggiero G, Stefani S, Fortina AB. Pediatric impetigo: an expert panel opinion about its main controversies. J Chemother. 2022 Sep;34(5):279-285. doi: 10.1080/1120009X.2021.1961185. Epub 2021 Aug 18. PMID: 34405763.
- 105: Stracquadanio S, Bonomo C, Marino A, Bongiorno D, Privitera GF, Bivona DA, Mirabile A, Bonacci PG, Stefani S. Acinetobacter baumannii and Cefiderocol, between Cidality and Adaptability. Microbiol Spectr. 2022 Oct 26;10(5):e0234722. doi: 10.1128/spectrum.02347-22. Epub 2022 Sep 29. PMID: 36173300; PMCID: PMC9603721.
- 106: Salemi R, Zega A, Aguglia E, Lo Verde F, Pigola G, Stefani S, Cafiso V. Balancing the Virulence and Antimicrobial Resistance in VISA DAP-R CA-MRSA Superbug. Antibiotics (Basel). 2022 Aug 27;11(9):1159. doi:10.3390/antibiotics11091159. PMID: 36139939; PMCID: PMC9495084.
- 107: Russo GI, Bongiorno D, Bonomo C, Musso N, Stefani S, Sokolakis I, Hatzichristodoulou G, Falcone M, Cai T, Smarrazzo F, Verze P; EAU-YAU Sexual and Reproductive Health Group. Correction: The relationship between the gut microbiota, benign prostatic hyperplasia, and erectile dysfunction. Int J Impot Res. 2022 Jul 5. doi: 10.1038/s41443-022-00594-0. Epub ahead of print. Erratum for: Int J Impot Res. 2022 Apr 13;; PMID: 35790856.
- 108: Barbagallo G, Santagati M, Guni A, Torrisi P, Spitale A, Stefani S, Ferlito S, Nibali L. Microbiome differences in periodontal, peri-implant, and healthy sites: a cross-sectional pilot study. Clin Oral Investig. 2022 Mar;26(3):2771-2781. doi: 10.1007/s00784-021-04253-4. Epub 2021 Nov 26. PMID: 34826030.
- 109: Bivona DA, Mirabile A, Bonomo C, Bonacci PG, Stracquadanio S, Marino A, Campanile F, Bonaccorso C, Fortuna CG, Stefani S, Musso N, Bongiorno D. Heteroaryl-Ethylenes as New Effective Agents for High Priority Gram-Positive and Gram-Negative Bacterial Clinical Isolates. Antibiotics (Basel). 2022 Jun 3;11(6):767. doi: 10.3390/antibiotics11060767. PMID: 35740173; PMCID: PMC9219758.
- 110: Migliorisi G, Collura M, Ficili F, Pensabene T, Bongiorno D, Collura A, Di Bernardo F, Stefani S. Elexacaftor-Tezacaftor-Ivacaftor as a Final Frontier in the Treatment of Cystic Fibrosis: Definition of the Clinical and Microbiological Implications in a Case-Control Study. Pharmaceuticals (Basel). 2022 May 14;15(5):606. doi: 10.3390/ph15050606. PMID: 35631432; PMCID: PMC9145356.
- 111: Lazzaro LM, Cassisi M, Stefani S, Campanile F. Impact of PBP4 Alterations on β -Lactam Resistance and Ceftobiprole Non-Susceptibility Among *< i>Enterococcus faecalis</i>* Clinical Isolates. Front Cell Infect Microbiol. 2022 Jan 20;11:816657. doi: 10.3389/fcimb.2021.816657. PMID: 35127564; PMCID: PMC8811369.
- 112: Russo GI, Bonacci P, Bivona D, Privitera GF, Broggi G, Caltabiano R, Vella J, Lo Giudice A, Asmundo MG, Cimino S, Morgia G, Stefani S, Musso N. Genomic Landscape Alterations in Primary

Tumor and Matched Lymph Node Metastasis in Hormone-Naïve Prostate Cancer Patients. *Cancers* (Basel). 2022 Aug 30;14(17):4212. doi: 10.3390/cancers14174212. PMID: 36077746; PMCID: PMC9454441.

- 113: Musso N, Bonacci PG, Bongiorno D, Stracquadanio S, Bivona DA, Palermo CI, Scalia G, Fichera M, Stefani S. Discriminatory Weight of SNPs in Spike SARS-CoV-2 Variants: A Technically Rapid, Unambiguous, and Bioinformatically Validated Laboratory Approach. *Viruses*. 2022 Jan 11;14(1):123. doi:10.3390/v14010123. PMID: 35062327; PMCID: PMC8781109.
- 114: Russo GI, Musso N, Lo Giudice A, Asmundo MG, Di Mauro M, Bonacci PG, Massimino M, Bivona D, Stefani S, Pricoco E, Ferro M, Camarda M, Cimino S, Morgia G, Caltabiano R, Broggi G. PD-1, PD-L1 and cAMP immunohistochemical expressions are associated with worse oncological outcome in patients with bladder cancer. *J Cancer Res Clin Oncol*. 2022 Aug 16. doi: 10.1007/s00432-022-04262-0. Epub ahead of print. PMID: 35972693.
- 115: Musso N, Maugeri JG, Bongiorno D, Stracquadanio S, Bartoloni G, Stefani S, Di Stefano ED. SARS-CoV-2's high rate of genetic mutation under immune selective pressure: from oropharyngeal B.1.1.7 to intrapulmonary B.1.533 in a vaccinated patient. *Int J Infect Dis*. 2022 May;118:169-172. doi: 10.1016/j.ijid.2022.02.044. Epub 2022 Mar 2. PMID: 35247550; PMCID: PMC8888350.
- 116: Bongiorno D, Bivona DA, Cicino C, Trecarichi EM, Russo A, Marascio N, Mezzatesta ML, Musso N, Privitera GF, Quirino A, Scarlata GGM, Matera G, Torti C, Stefani S. Omic insights into various ceftazidime-avibactam-resistant *Klebsiella pneumoniae* isolates from two southern Italian regions. *Front Cell Infect Microbiol*. 2023 Jan 5;12:1010979. doi: 10.3389/fcimb.2022.1010979. PMID: 36683697; PMCID: PMC9851273.
- 117: Vertillo Aluisio G, Spitale A, Bonifacio L, Privitera GF, Stivala A, Stefani S, Santagati M. *Streptococcus salivarius* 24SMBc Genome Analysis Reveals New Biosynthetic Gene Clusters Involved in Antimicrobial Effects on *Streptococcus pneumoniae* and *Streptococcus pyogenes*. *Microorganisms*. 2022 Oct 16;10(10):2042. doi: 10.3390/microorganisms10102042. PMID: 36296318; PMCID: PMC9610097.
- 118: Aguglia E, Chines E, Stefani S, Cafiso V. New Antimicrobial Resistance Strategies: An Adaptive Resistance Network Confering Reduced Glycopeptide Susceptibility in VISA. *Antibiotics* (Basel). 2023 Apr 19;12(4):783. doi: 10.3390/antibiotics12040783. PMID: 37107145; PMCID: PMC10135003.
- 119: Migliorisi G, Calvo M, Collura A, Di Bernardo F, Perez M, Scalia G, Stefani S. The Rapid Phenotypic Susceptibility Testing in Real-Life Experience: How the MIC Values Impact on Sepsis Fast Diagnostic Workflow. *Diagnostics* (Basel). 2023 Dec 26;14(1):56. doi: 10.3390/diagnostics14010056. PMID: 38201365.
- 120: Fasciana T, Antonelli A, Bianco G, Lombardo D, Codda G, Roschetto E, Perez M, Lipari D, Arrigo I, Galia E, Tricoli MR, Calvo M, Niccolai C, Morecchiato F, Errico G, Stefani S, Cavallo R, Marchese A, Catania MR, Ambretti S, Rossolini GM, Pantosti A, Palamara AT, Sabbatucci M, Serra N, Giammanco A. Multicenter study on the prevalence of colonization due to carbapenem-resistant Enterobacteriales strains before and during the first year of COVID-19, Italy 2018-2020. *Front Public Health*. 2023 Dec 19;11:1270924. doi: 10.3389/fpubh.2023.1270924. PMID: 38186699; PMCID: PMC10771343.
- 123: Stracquadanio S, Nicolosi A, Privitera GF, Massimino M, Marino A, Bongiorno D, Stefani S. Role of transcriptomic and genomic analyses in improving the comprehension of cefiderocol activity in *Acinetobacter baumannii*. *mSphere*. 2023 Dec 11:e0061723. doi: 10.1128/msphere.00617-23. Epub ahead of print. PMID: 38078714.

- 124: Stefani S, Buti N, Hart ACJ, Paul D, Rizvi N, Ragoonanan V, Vladescu C, Szydlo R, Ademokun C, Jansen AJG, Cooper N. Safety and efficacy of SARS-CoV-2 vaccination in patients with immune thrombocytopenia: A two-centre review. *Br J Haematol.* 2024 Jan;204(1):324-328. doi: 10.1111/bjh.19212. Epub 2023 Nov 27. PMID: 38013240.
- 125: Musso N, Bivona D, Bonomo C, Bonacci P, D'Ippolito ME, Boccagni C, Rubino F, De Tanti A, Lucca LF, Pingue V, Colombo V, Estraneo A, Stefani S, Andriolo M, Bagnato S. Investigating microRNAs as biomarkers in disorders of consciousness: a longitudinal multicenter study. *Sci Rep.* 2023 Oct 27;13(1):18415. doi: 10.1038/s41598-023-45719-7. PMID: 37891240; PMCID: PMC10611795.
- 126: Marino A, Campanella E, Stracquadanio S, Calvo M, Migliorisi G, Nicolosi A, Cosentino F, Marletta S, Spampinato S, Prestifilippo P, Stefani S, Cacopardo B, Nunnari G. Ceftazidime/Avibactam and Meropenem/Vaborbactam for the Management of Enterobacteriales Infections: A Narrative Review, Clinical Considerations, and Expert Opinion. *Antibiotics (Basel).* 2023 Oct 9;12(10):1521. doi: 10.3390/antibiotics12101521. PMID: 37887222; PMCID: PMC10603868.
- 127: Worldwide Antimicrobial Resistance National/International Network Group (WARNING) Collaborators. Ten golden rules for optimal antibiotic use in hospital settings: the WARNING call to action. *World J Emerg Surg.* 2023 Oct 16;18(1):50. doi: 10.1186/s13017-023-00518-3. PMID: 37845673; PMCID: PMC10580644.
- 128: Pellegrino R, Timitilli E, Verga MC, Guarino A, Iacono ID, Scotese I, Tezza G, Dinardo G, Riccio S, Pellizzari S, Iavarone S, Lorenzetti G, Simeone G, Bergamini M, Donà D, Pierantoni L, Garazzino S, Esposito S, Venturini E, Gattinara GC, Lo Vecchio A, Marseglia GL, Di Mauro G, Principi N, Galli L, Chiappini E; Other members of the Italian Panel for the Management of Acute Pharyngitis in Children. Acute pharyngitis in children and adults: descriptive comparison of current recommendations from national and international guidelines and future perspectives. *Eur J Pediatr.* 2023 Dec;182(12):5259-5273. doi: 10.1007/s00431-023-05211-w. Epub 2023 Oct 11. PMID: 37819417; PMCID: PMC10746578.
- 129: Cai T, Novelli A, Tascini C, Stefani S. Rediscovering the value of Fosfomycin trometamol in the era of antimicrobial resistance: A systematic review and expert opinion. *Int J Antimicrob Agents.* 2023 Dec;62(6):106983. doi: 10.1016/j.ijantimicag.2023.106983. Epub 2023 Sep 24. PMID: 37748624.
- 130: Carrara E, Grossi PA, Gori A, Lambertenghi L, Antonelli M, Lombardi A, Bongiovanni F; AIFA-OPERA Working Group; Magrini N, Manfredi C, Stefani S, Tumbarello M, Tacconelli E. How to tailor recommendations on the treatment of multi-drug resistant Gram-negative infections at country level integrating antibiotic stewardship principles within the GRADE-ADOLEPMENT framework. *Lancet Infect Dis.* 2023 Sep 4:S1473-3099(23)00435-8. doi: 10.1016/S1473-3099(23)00435-8. Epub ahead of print. PMID: 37678308.
- 131: Bonomo C, Bonacci PG, Bivona DA, Mirabile A, Bongiorno D, Nicitra E, Marino A, Bonaccorso C, Consiglio G, Fortuna CG, Stefani S, Musso N. Evaluation of the Effects of Heteroaryl Ethylene Molecules in Combination with Antibiotics: A Preliminary Study on Control Strains. *Antibiotics (Basel).* 2023 Aug 10;12(8):1308. doi: 10.3390/antibiotics12081308. PMID: 37627728; PMCID: PMC10451629.
- 132: Marino A, Pulvirenti S, Campanella E, Stracquadanio S, Ceccarelli M, Micali C, Tina LG, Di Dio G, Stefani S, Cacopardo B, Nunnari G. Ceftazidime-Avibactam Treatment for Klebsiella pneumoniae Bacteremia in Preterm Infants in NICU: A Clinical Experience. *Antibiotics (Basel).* 2023 Jul 10;12(7):1169. doi:10.3390/antibiotics12071169. PMID: 37508265; PMCID: PMC10376358.

- 133: Cortegiani A, Antonelli M, Falcone M, Giarratano A, Girardis M, Leone M, Pea F, Stefani S, Viaggi B, Viale P. Rationale and clinical application of antimicrobial stewardship principles in the intensive care unit: amultidisciplinary statement. *J Anesth Analg Crit Care*. 2023 May 1;3(1):11. doi: 0.1186/s44158-023-00095-6. PMID: 37386615; PMCID: PMC10245548.
- 134: Bongiorno D, Bivona DA, Cicino C, Trecarichi EM, Russo A, Marascio N, Mezzatesta ML, Musso N, Privitera GF, Quirino A, Scarlata GGM, Matera G, Torti C, Stefani S. Omic insights into various ceftazidime-avibactam-resistant *Klebsiella pneumoniae* isolates from two southern Italian regions. *Front Cell Infect Microbiol*. 2023 Jan 5;12:1010979. doi: 10.3389/fcimb.2022.1010979. PMID: 36683697; PMCID: PMC9851273.
- 135: Russo GI, Bongiorno D, Bonomo C, Musso N, Stefani S, Sokolakis I, Hatzichristodoulou G, Falcone M, Cai T, Smarrazzo F, Verze P; EAU-YAU Sexual an Reproductive Health Group. Correction: The relationship between the gut microbiota, benign prostatic hyperplasia, and erectile dysfunction. *Int J Impot Res*. 2023 Jun;35(4):413. doi: 10.1038/s41443-022-00594-0. Erratum for: *Int J Impot Res*. 2023 Jun;35(4):350-355. PMID: 35790856.
- 136: Russo GI, Bongiorno D, Bonomo C, Musso N, Stefani S, Sokolakis I, Hatzichristodoulou G, Falcone M, Cai T, Smarrazzo F, Verze P; EAU-YAU Sexual and Reproductive Health Group. The relationship between the gut microbiota, benign prostatic hyperplasia, and erectile dysfunction. *Int J Impot Res*. 2023 Jun;35(4):350-355. doi: 10.1038/s41443-022-00569-1. Epub 2022 Apr 13. Erratum in: *Int J Impot Res*. 2022 Jul 5;; PMID: 35418604.
- 137 : Pellegrino R, Timitilli E, Verga MC, Guarino A, Iacono ID, Scotese I, Tezzi , Dinardo G, Riccio S, Pellizzari S, Iavarone S, Lorenzetti G, Simeone G, Bergamini M, Donà D, Pierantoni L, Garazzino S, Esposito S, Venturini E, Gattinara GC, Lo Vecchio A, Marseglia GL, Di Mauro G, Principi N, Galli L Chiappini E; Other members of the Italian Panel for the Management of AcutE Pharyngitis in Children. Acute pharyngitis in children and adults: descriptive comparison of current recommendations from national and international guidelines and future perspectives. *Eur J Pediatr*. 2023 Dec;182(12):5259-5273. doi: 10.1007/s00431-023-05211-w. Epub 2023 Oct 11. PMID: 37819417; PMCID: PMC10746578.
- 138: La Via L, Sangiorgio G, Stefani S, Marino A, Nunnari G, Cocuzza S, La Mantia I, Cacopardo B, Stracquadanio S, Spampinato S, Lavalle S, Maniaci A. The Global Burden of Sepsis and Septic Shock. *Epidemiologia (Basel)*. 2024 Jul 25;5(3):456-478. doi: 10.3390/epidemiologia5030032. PMID: 39189251; PMCID:PMC11348270
- 138: Worldwide Antimicrobial Resistance National/International Network Group (WARNING) Collaborators. Ten golden rules for optimal antibiotic use in hospital settings: the WARNING call to action. *World J Emerg Surg*. 2023 Oct 16;18(1):50. doi: 10.1186/s13017-023-00518-3. PMID: 37845673; PMCID: PMC10580644.
- 139 : Sartelli M, Tascini C, Cocolini F, Dellai F, Ansaloni L, Antonelli M, Bartoletti M, Bassetti M, Boncagni F, Carlini M, Cattelan AM, Cavaliere Ceresoli M, Cipriano A, Cortegiani A, Cortese F, Cristini F, Cucinotta E Dalfino L, De Pascale G, De Rosa FG, Falcone M, Forfori F, Fugazzola P, Gatti M, Gentile I, Ghiadoni L, Giannella M, Giarratano A, Giordano A, Girardis M, Mastrianni C, Monti G, Montori G, Palmieri M, Pani M, Paolillo C, Parini D, Parruti G, Pasero D, Pea F, Peghin M, Petrosillo N, Podda M, Rizzo C, Rossolini GM, Russo A, Scoccia L, Sganga G, Signorini L, Stefani S, Tumbarello M, Tumietto F, Valentino M, Venditti M, Viaggi B, Vivaldi F, Zaghi C, Labricciosa FM, Abu-Zidan F, Catena F, Viale P. Management of intra-abdominal infections: recommendations by the Italian council for the optimization of antimicrobial use. *World J Emerg Surg*. 2024 Jun 8;19(1):23. doi: 10.1186/s13017-024-00551-w. PMID: 38851757; PMCID: PMC11162065.

140: Marino A, Augello E, Stracquadanio S, Bellanca CM, Cosentino F, Spampinato S, Cantarella G, Bernardini R, Stefani S, Cacopardo B, Nunnari G. Unveiling the Secrets of *< i>Acinetobacter baumannii*: Resistance, Current Treatments, and Future Innovations. Int J Mol Sci. 2024 Jun 21;25(13):6814. doi: 10.3390/ijms25136814. PMID: 38999924; PMCID: PMC11241693

141: Chiappini E, Simeone G, Bergamini M, Pellegrino R, Guarino A, Staiano A, Esposito S, Gattinara GC, Lo Vecchio A, Stefani S, Iacono ID, Scotese I, Tezza G, Dinardo G, Riccio S, Pellizzari S, Iavarone S, Lorenzetti G, Venturini E, Donà D, Pierantoni L, Doria M, Garazzino S, Midulla F, Cricelli C, Terracciano L, Capuano A, Bruzzese E, Ghiglioni D, Fusani L, Fusco E, Biasci P, Reggiani L, Matera L, Mancino E, Barbieri E, D'Avino A, Cursi L, Sullo MG, Scotti S, Marseglia GL, Di Mauro G, Principi N, Galli L, Verga MC. Treatment of acute pharyngitis in children: an Italian intersociety consensus (SIPPS-SIP-SITIP- FIMP-SIAIP-SIMRI-FIMMG). Ital J Pediatr. 2024 Nov 6;50(1):235. doi: 10.1186/s13052-024-01789-5. PMID: 39501298; PMCID: PMC11539554.

142: Santerre Henriksen A, Arena F, Attwood M, Canton R, Gatermann S, Naas T, Morrissey I, Longshaw C; ARTEMIS Study Investigators. *< i>In vitro* activity of cefiderocol against European Enterobacterales, including isolates resistant to meropenem and recent β -lactam/ β -lactamase inhibitor combinations. Microbiol Spectr. 2024 Jun 21;12(8):e0418123. doi: 10.1128/spectrum.04181-23. Epub ahead of print. PMID: 38904361; PMCID: PMC11302063.

143: Sangiorgio G, Nicitra E, Bivona D, Bonomo C, Bonacci P, Santagati M, Musso N, Bongiorno D, Stefani S. Interactions of Gram-Positive Bacterial Membrane Vesicles and Hosts: Updates and Future Directions. Int J Mol Sci. 2024 Mar 1;25(5):2904. doi: 10.3390/ijms25052904. PMID: 38474151; PMCID: PMC10932020.

144: Cai T, Novelli A, Tascini C, Stefani S. Rediscovering the value of Fosfomycin trometamol in the era of antimicrobial resistance: A systematic review and expert opinion. Int J Antimicrob Agents. 2023 Dec;62(6):106983. doi: 10.1016/j.ijantimicag.2023.106983. Epub 2023 Sep 24. PMID: 37748624.

145: Santerre Henriksen A, Jeannot K, Oliver A, Perry JD, Pletz MW, Stefani S, Morrissey I, Longshaw C; ARTEMIS Study Investigators. *< i>In vitro* activity of cefiderocol against European *< i>Pseudomonas aeruginosa* and *Acinetobacter* spp., including isolates resistant to meropenem and recent β -lactam/ β -lactamase inhibitor combinations. Microbiol Spectr. 2024 Apr 2;12(4):e0383623. doi: 10.1128/spectrum.03836-23. Epub 2024 Mar 14. PMID: 38483164; PMCID: PMC10986614.

Bibliometry

Number of papers published in the period (2012-2025) – 136

Citation Index (total) – 508

Hi - 47

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.

STEFANIA
STEFANI
08.05.2025
11:51:50
GMT+02:00



