Curriculum of Raffaele Zarrilli

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Current positions

Full Professor in Hygiene and Public Health, Department of Public Health, University of Napoli "Federico II", Italy since 2017.
Director of the program of Epidemiology and Prevention of Health Care Associated Infections, "Federico II" University Hospital, Naples, Italy since 2004.
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Education and Past Positions

He received MD and PhD from University of Napoli Federico II in 1985 and 1992, respectively, and completed residency in Microbiology and Virology in 1996. He was Fogarty Fellow at the NIADDKD, N.I.H., Bethesda, Md., U.S.A. (1987-1988) and Visiting Scientist at the Functional Genomics and Proteomics Facility, University of Birmingham, U.K. (2009). He was Assistant Professor in Microbiology (1993-2003), Assistant Professor in Hygiene and Public Health (1994-2011) and since 2011 to 2017 Associate Professor in Hygiene and Public Health at the Medical School of the University of Napoli "Federico II", Italy.

Honors.

Section Editor (2014-2018) and Associate Editor (2012-2013) of the Clinical Microbiology and Vaccine Section of BMC Microbiology. Associate Editor of Frontiers in Microbiology, Antimicrobial, Resistance and Chemotherapy Section (2017-to present). Guest Associate Editor of Frontiers in Public Health, Frontiers in Medicine, Infectious Diseases – Surveillance, Prevention and Treatment (2019-2021), Antibiotics, Microorganisms. Editorial Board Member of The Journal of Infection in Developing Countries (2009-to present) and Scientific Reports (2017-to present). Curator of *Acinetobacter baumannii* sequence types and genomes at the *Acinetobacter baumannii* MLST database (http://pubmlst.org/abaumannii/) (2013-to present). Member of the national scientific commission for the conferral of National Scientific Ability to the functions of first and second level university professor in the 06 / M1 - General and Applied Hygiene, Nursing Sciences and Medical Statistics for the years 2018-2021.

Publications and Bibliometric

He is co-author of 120 publications on International Journals, 66 of them as first or last author. He deposited 19 genomes and 35 nucleotide sequences in GenBank database. His publications received 5583 citations, with an "h-index" of 45 according to SCOPUS (Author ID: 7004832280); 5581 citations with an "h-index" of 45 according to ISI web of Science; 8556 citations, with an "h-index" of 55 according to Google Scholar.

Current Research activity

i) molecular epidemiology of community-acquired and hospital-acquired infections caused by multidrug-resistant microorganisms; ii) molecular analysis of antimicrobial drug resistances and mechanisms of horizontal gene transfer in Gram-negative

bacteria; iii) genomic and global epidemiology of multi-drug resistant *Acinetobacter baumannii* and *Klebsiella pneumoniae*.

Research grants

He was Principal Investigator (PRIN 2008, Antimicrobial Resistance Gene Transfer in Microgravity) or Associated Investigator (PRIN 2000, PRIN 2002, PRIN 2004, AIFA 2007, PRIN 2017) of the following research projects funded by Ministero dell'Università, dell'Istruzione e Ricerca Scientifica (MIUR), Italy, Ministero degli Affari Esteri e della Cooperazione Internazionale, Italy, or Agenzia Italiana del Farmaco (AIFA):

1) "Molecular response of gastric epithelial cells to *Helicobacter pylori*-induced cell damage" funded by MIUR (PRIN 2000);

2) "Identification of novel virulence factors of *Helicobacter pylori* that modulate the signal transduction pathways and the redox state in epithelial and inflammatory cells" funded by MIUR (PRIN 2002);

3) "Molecular epidemiology of microorganisms responsible for nosocomial infections in cardiac surgery and associated antimicrobial drug resistances" funded by MIUR (PRIN 2004);

4)"Randomised, open-label clinical trial on the efficacy of colistin plus rifampicin treatment versus colistin alone for severe infections by multidrug-resistant *Acinetobacter baumannii*" funded by AIFA (AIFA 2007).

5) "Molecular epidemiology of multidrug-resistant *Acinetobacter baumannii* in multiple Mediterranean Hospitals: study of mechanisms responsible for horizontal gene transfer of antimicrobial resistances and identification of genetic traits associated with the spread of epidemic clones in the hospital setting" funded by MIUR (PRIN 2008);

6) "ARGTM (Antimicrobial Resistance Gene Transfer in Microgravity)" funded by Ministero degli Affari Esteri e della Cooperazione Internazionale, Italy, during 2019-2020 in the framework of the industrial, scientific and technological research and development cooperation between Italy and Israel;

7) "An integrated approach to tackle the interplay among adaptation, stressful conditions and antimicrobial resistance of challenging pathogens" funded by M.I.U.R. (Ministero dell'Università, dell'Istruzione e Ricerca Scientifica, Italy) during 2019-2021 (PRIN2017, protocol nr. 2017SFBFER).