

## ***Curriculum Vitae et Studiorum***

### **Prof. Paola Salvatore**

#### **CURRENT POSITION.**

Full Professor of Microbiology and Clinical Microbiology, School of Medicine, University of Naples "Federico II".  
Director of Complex Operative Unit of Clinical Microbiology, of Department of Integrated Activity of Laboratory Medicine and Transfusion, University Hospital "Federico II", Naples.

#### **EDUCATION.**

1990 M.D. degree summa cum laude, University of Naples "Federico II".  
1994 PhD in Cellular and Molecular Genetics, University of Naples "Federico II".  
1994-1995 Visiting Fellow at the Diabetes Branch, of National Institute of Diabetes, Digestive and Kidney Diseases of the National Institute of Health, Bethesda, MD (USA).  
1999 Residency in Clinical Pathology, University of Naples "Federico II".

#### **PAST POSITIONS.**

1997 Assistant Professor of General Microbiology, Department of Environmental Sciences, School of Environmental Sciences, Second University of Naples.  
2001 Associate Professor in Molecular Biology, School of Biotechnological Sciences, University of Naples "Federico II".  
2006 Full Professor in Molecular Biology, School of Biotechnological Sciences, University of Naples "Federico II".  
2010 Full Professor of Microbiology and Clinical Microbiology, School of Biotechnological Science.  
2012 Manager physician with leadership positions, U.O.C. of Clinical Microbiology, Federico II University Hospital, Naples.

#### **ORGANIZATIONAL SKILLS AND COMPETENCES.**

Prof. P. Salvatore leads a group of young researchers, some of whom have permanent positions at the University.  
She is also a member of:

2018 Professors board for the PhD program of European School of Molecular Medicine (SEMM);  
2014 Unique Guarantee Committee at the Order of Physicians-Surgeons and Dentists of Naples and Province;  
2014 Professors board for the PhD program in Molecular Medicine and Medical Biotechnology, University of Naples "Federico II";  
2014 Sub-commission for the CFU validation for the Didactics Coordination Committee of the Degree Course in Medicine and Surgery;  
2013 The Department of Molecular Medicine and Medical Biotechnology Council;  
2012 Specialization in Microbiology and Virology School Council, University of Naples "Federico II";  
2001 Professors board for the PhD program in Genetics and Molecular Medicine, University of Naples "Federico II".

#### **CURRENT RESEARCH ACTIVITY.**

- Regulation of the expression of bacterial virulence determinants by genetic variation and transcriptional gene regulation (*N. meningitidis*).

- Characterization of pathogenic determinants expressed on the bacterial surface or secreted into extracellular environment, representing potential target for development of new vaccines (*N. meningitidis*).
- Development of animal and cellular models of infection (*N. meningitidis*, *B. henselae*, *B. fragilis*).
- Evaluation of morphological and functional alterations of endothelial progenitor cells (EPC) infected *in vitro* and *in vivo* with human pathogens (*B. henselae*).
- Phenotypic and genotypic characterization of the gastrointestinal microbiota and microbiota in celiac disease.
- Characterization and identification of new pathogens in the context of different clinical frameworks.
- Evaluation of the antibacterial and antifungal activity of natural plant compounds in different clinical pictures.

Prof. Paola Salvatore is the author of 52 original articles in journals cited in the Journal Citation Report.

#### **FUNDING FOR RESEARCH ACTIVITIES.**

Prof. Salvatore has been Scientific Responsible for the following research projects:

- PRIN 2012 [grant number 2012WJSX8K]: "Host-microbe interaction models in mucosal infections: development of novel therapeutic strategies".
- PRIN 2008 [grant number 2008232P4H\_002] "Bacterial pathogenicity and development of vaccines".
- PRIN 2006 [grant number 2006068944\_001]: "Genetic and molecular bases of bacterial pathogenicity".
- 2006 Project funded by the Regione Campania (L.R. N.5 del 28.03.2002): "Analysis of the pathogenic role of *Neisseria meningitidis* genes in a "outbred mice" model of meningitis".
- 2000 Project funded by the Regione Campania (L.R. N.41 del 31.12.1994): "Mechanisms of bacterial pathogenicity: role of transposable elements in the remodeling of the *Neisseria meningitidis* genome, and in the evolution of pathogenic biotypes".
- 2000 University research fund, Faculty of Environmental Sciences, Second University of Naples: "Regulation of the pathogenic determinants expression by DNA rearrangements: molecular mechanisms responsible for antigenic variation and their etiopathogenetic relevance in *Neisseria meningitidis* infection

#### **HONORS AND AWARDS**

1994-Winner of scholarship from the Ministry of Education and Department of Cellular and Molecular Biology and Pathology "L. Califano" for conducting a research program in collaboration with a foreign research institution (Biology, Diabetes Branch, of the National Institute of Diabetes, National Institute of Health's Digestive and Kidney Diseases, Bethesda, MD, USA).

1996-National award AIPaC for the communication "Expression of the galectin-1 gene in thyroid tumor pathology". Presented at the Conference "The Clinical Pathologist in the new Italian healthcare scenario". XLVI AIPaC National Congress, Fiuggi Terme (FR), May 28-31.

2013-Best Poster Award for the Bacteriology Session, conferred at the 41<sup>st</sup> National Congress of the Italian Society of Microbiology (SIM) on October 13-16, for the Poster: Pagliuca C. et al. "Effects of rifampicin-resistance on metabolism and fitness of *Neisseria meningitidis*".