

CURRICULUM VITAE
EUROPEAN FORMAT



PERSONAL INFORMATION

Name/surname	Samuele Peppoloni
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E-mail	samuele.peppoloni@unimore.it
Nationality	Italian
Date of birth and place	January 15, 1957, Perugia (PG)
Gender	Male

EMPLOYMENT

Associate Professor SSD MED 07 (Microbiology and Clinical Microbiology) at the University of Modena and Reggio Emilia / University education

PROFESSIONAL EXPERIENCES

1978-1980	<i>Internal graduate student at the Institute of Histology and Embryology, Faculty of Biological Sciences, University of Perugia, Perugia</i>
1981	<i>Trainee at the Institute of Infectious Diseases, Faculty of Medicine and Surgery, University of Perugia, Perugia</i>
May 1983-August 1986	<i>Visiting Fellow at the National Cancer Institute (NCI), National Institute of Health (NIH), DTC, BRMP, Biological Therapeutics Branch, Frederick, Maryland, USA. Head: Dr. Ronald B. Herberman</i>
1986	<i>AIRC fellow (Italian Association for Cancer Research)</i>
October 1986-May 1991	<i>Researcher at the Immunopharmacology Laboratory, Sclavo Research Center, Sclavo Spa, Siena</i>
May-November 1991	<i>Scientific Consultant at the Agro-Food Technology Park (PTA) of Umbria, Pantalla of Todi (PG)</i>
November 1991-September 1992	<i>Researcher at the Vaccine Preclinical Laboratory, Sclavo Research Center, Sclavo Spa, Siena</i>
September-December 1992	<i>Visiting Scientist at the Laboratory of Pertussis, Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA), Building 29, 8800 Rockville Pike, Bethesda, Maryland, USA. Head: Dr. Drusilla L. Burns</i>
January 1993-October 2002	<i>Senior Scientist head of the Vaccine Serology and Preclinical Laboratory, at the Department of Immunology, Siena Immunological Research Institute (IRIS), Chiron Spa, Siena</i> <i>Contract Professor of "Preparation and Validation of Vaccines", supplementary teaching activity of the teaching of "Immunotherapy and Immunoprophylaxis", at the School of Specialization in Microbiology and Virology for the 1993/1994 academic year, Faculty of Medicine and Surgery, University of Studies of Perugia, Perugia</i> <i>Contract Professor of "Microbiological Analysis", Integrated Course of "Microbiology I" D.U. Biomedical Laboratory Technicians, for the A.Y. 1993/1994, 1994/1995, 1995/1996, 1996/1997, Faculty of Medicine and Surgery, University of Siena, Siena</i>

Contract Professor of "Applied Microbiology", Integrated Course of "Diagnostic Techniques of Microbiology, Virology, Mycology and Parasitology", D.U. Biomedical Laboratory Technician, for the A.Y. 1997/1998, 1998/1999, 1999/2000, 2000/2001, Faculty of Medicine and Surgery, University of Siena, Siena

Contract Professor of "Microbiology and Clinical Microbiology", Integrated Course of "Microbiology and Clinical Microbiology II", C.d.L. Biomedical Laboratory Technician, for the A.Y. 2001/2002, Faculty of Medicine and Surgery, University of Siena, Siena

Expert Professor of "Biotechnologies and Vaccines", 1st level International Bachelor of Science in Biotechnology, for the A.Y. 2001/2002, Faculty of Medicine and Surgery, University of Perugia, Perugia

From November 2002 to
today

Associate Professor, SSD MED07 (now MEDS-03/A) "Microbiology and Clinical Microbiology" at the University of the Studies of Modena and Reggio Emilia, Modena

Professor at the School of Specialization in Microbiology and Virology, at the Faculty of Medicine and Surgery, University of Modena and Reggio Emilia, Modena

November 28, 2017

He obtained the National Scientific Qualification, in the competition sector 06/A3 - Microbiology and clinical microbiology, as Full Professor

EDUCATION AND TRAINING

- 1976 Scientific high school diploma obtained at the Liceo Scientifico Statale "G. Alessi", Perugia
- 1980 Degree *with honors* in Biological Sciences, obtained at the University of Perugia, Perugia

SKILLS AND PERSONAL COMPETENCES

NATIVE LANGUAGE	Italian
ENGLISH LANGUAGE	Understanding C1; Speaking C1, Writing C1
GERMAN LANGUAGE	Understanding B1; Speaking A2, Writing A2

ORGANIZATIONAL AND TECHNICAL

SKILLS AND COMPETENCES

The scientific activity of Prof. Samuele Peppoloni (documented by > 65 publications in peer-reviewed international scientific journals on PubMed) mainly concerned:

- a) the study of the humoral and cell-mediated immune response in subjects vaccinated with the recombinant acellular pertussis vaccine
- b) the evaluation of the mucosal adjuvant activity of *E. coli* LT heat-labile toxin mutants
- c) the study of *Helicobacter pylori* virulence factors responsible for pathogenicity, as well as the antibody-dependent antibacterial activity mediated by the macrophage against this bacterium
- d) the role of the bacterial capsule in the intracellular survival of *Streptococcus pneumoniae* in phagocytic cells
- e) the immunobiological characterization of newly identified protein antigens of *S. pneumoniae* through the use of "lambda display" libraries obtained from the complete genome of pneumococci
- f) the role of MnSOD of *Enterococcus faecalis* in the interaction with microglia
- g) the *in vitro* interaction of some fungal species, such as *Candida albicans* and *Cryptococcus neoformans* with the macrophage cell
- h) the antifungal role of some killer peptides against *Candida albicans* biofilm
- i) the immunobiological characterization of fungal strains isolated from the intestinal microbiota of healthy subjects or subjects affected by inflammatory diseases of the digestive system, such as Crohn's disease
- l) the molecular mechanisms involved in vulvovaginal candidiasis by *Candida albicans*

He is also author/co-author of > 90 abstracts presented at national and international congresses and co-author of 2 books on Microbiology for university medical and pharmaceutical students.

Scopus (June 2024):

2,256 Citations **66** Documents **28** h-index

Professor Samuele Peppoloni was **Scientific Head of the Research Unit** of the following **FUNDED** Scientific Research Programs of Relevant National Interest (**PRIN**):

PRIN 2003

Scientific coordinator	FELICI Franco
Scientific director	PEPPOLONI Samuele
University	University of MODENA and REGGIO EMILIA

Title "Study of the immunomodulatory properties of new *Streptococcus pneumoniae* protein antigens selected by phage display and characterization of the specific humoral response".

PRIN 2005

Scientific coordinator PERNICE Ida

Scientific director PEPPOLONI Samuele

University University of MODENA and REGGIO EMILIA

Title "Immunobiological characterization of new *Streptococcus pneumoniae* protein antigens selected by "phage display": role in the in vitro interaction with the macrophage cell and study of the induced immune response".

PRIN 2008

Scientific coordinator FELICI Franco

Scientific director PEPPOLONI Samuele

University University of MODENA and REGGIO EMILIA

Title "Immunobiological characterization of gene products that interact with host tissues, identified by the use of "lambda display" libraries from the complete genome of pathogenic streptococci: role in the *in vitro* interaction with the macrophage effector cell and study of the induced antibody response".

Prof. Samuele Peppoloni is **Senior Investigator of the Modena Research Unit** of the following **FUNDED** Scientific Research Programs of Relevant National Interest (**PRIN**):

PRIN 2022

Scientific coordinator Eva Pericolini

Scientific director Eva Pericolini

University University of MODENA and REGGIO EMILIA

Title "DORIAN: Defining the molecular mechanisms of tOlerance bReakdown In vulvovAginal candidiasis"

ORGANIZATIONAL AND TECHNICAL SKILLS AND COMPETENCES

Prof. Peppoloni participated in the **TEACHING BOARD** of the following **RESEARCH DOCTORATES**:

- **University of Modena and Reggio Emilia**

Title: "PUBLIC HEALTH" in the years 2003, 2004, 2005, 2006, 2007, 2008

Title: "CLINICAL AND EXPERIMENTAL MEDICINE" in the years 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016.

- **University of Perugia**

Title: "MOLECULAR PATHOGENESIS, IMMUNOLOGY AND CONTROL OF TRANSMITTABLE AGENTS THAT CAUSE THE MAIN DISEASES ASSOCIATED WITH POVERTY: MALARIA, AIDS AND TUBERCULOSIS" in the years 2006, 2007, 2008, 2010, 2011.

He is currently a member of the **TEACHING BOARD** of the **RESEARCH DOCTORATE** entitled:

"HEALTH INNOVATIVE PRODUCTS AND TECHNOLOGIES for HEALTH – HIP-Tech" 2024

at the University of Modena and Reggio

FURTHER INFORMATION

He is co-inventor of the following **Scientific Patents**:

1. "*Composition for vaccines*". Sclavo, 1990, by Nencioni Luciano, Pileri Piero, Peppoloni Samuele, Silvestri Sergio. Patent number: US 4957736 A.
2. "*Tuftsian analogues and vaccines containing these as adjuvants*". Sclavo, 1994, by Nencioni Luciano, Pileri Piero, Peppoloni Samuele, Silvestri Sergio. Patent number: EP 0392095 B1.
3. "*Composition for vaccines*". Sclavo, 1996, by Nencioni Luciano, Pileri Piero, Peppoloni Samuele, Silvestri Sergio. Patent number: CA 1338318 C.

On November 28, 2017 **he obtained the National Scientific Qualification**, in the competition sector 06/A3 - *Microbiology and clinical microbiology*, **as Full Professor**

Prof. Peppoloni has also carried out **scientific-dissemination activities**, including:

- Plenary reading entitled: "*Vaccines: from effective weapons in the fight against microbes to victims of one's own success*" at the Academy of Sciences, Letters and Arts of Modena, - Modena February 29, 2016.
- Report entitled: "*Main components and fundamental requirements of a vaccine*" in the context of "VacciniaMO", a day meeting open to citizens on the subject of vaccines, organized by the Faculty of Medicine and Surgery of Unimore, Centro Servizi Azienda Ospedaliero-Universitaria, Via Dal Pozzo, 71- Modena, February 9, 2018.
- Report entitled: "*History of Vaccinations*" in the context of "VaccinaRE", a day meeting open to citizens on the topic of vaccines, organized by the Faculty of Medicine and Surgery of Unimore, Palazzo Dossetti, Via A. Allegri, 9 - Reggio Emilia, February 10, 2018.



Modena, July 8, 2026