

**CURRICULUM VITAE  
EUROPEAN FORMAT**



**PERSONAL INFORMATION**

Name/surname	<b>Samuele Peppoloni</b>
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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 > 60 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):

**2,195 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
<b>Scientific director</b>	<b>PEPPOLONI Samuele</b>
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            PEPOLONI 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            PEPOLONI 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, October 27, 2025