

Eva Pericolini  
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## CURRICULUM VITAE

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<https://pubmed.ncbi.nlm.nih.gov/?term=Pericolini+E.&sort=date&size=50>

**H-index: 24**

**Total cites: 1260**

### Current position:

**From 28 April 2020.** Associate Professor in Microbiology at the Department of Surgical, Medical, Dental and Morphological Sciences with Interest transplant, Oncological and Regenerative Medicine of the University of Modena and Reggio Emilia, Modena, Italy.

### Educations:

**March 7, 2025-present:** Awarded the National Scientific Enabling for the scientific sector 05/I2 - Microbiology as Full professor, valid until November 7, 2037.

**November 11, 2020-present:** Awarded the National Scientific Enabling for the scientific sector 06/A3 - Microbiology and Clinical Microbiology as Full professor, valid until November 11, 2032.

**January 15, 2010:** Research PhD titled: "Molecular pathogenesis, immunology and control of transmitting agents causing the principal diseases associated with poverty: malaria, AIDS and tuberculosis".

**June 2003:** licensed Pharmacist

**March 6, 2003:** Graduated in Pharmacy at the University of Perugia

### Professional Experience:

**28 November 2016- 27 April 2020:** Assistant Professor in Microbiology at the Department of Surgical, Medical, Dental and Morphological Sciences with Interest transplant, Oncological and Regenerative Medicine of the University of Modena and Reggio Emilia, Modena, Italy.

**1 March 2014-31 March 2014:** Research collaboration within the project "Effect of yeast products and bacteria on vaginal infections induced by *Candida albicans*" at Microbiology Section, Department of Experimental Medicine, University of Perugia, Faculty of Medicine.

**1 December 2009-27 November 2016:** Research Associate within the project "Antibodies against *Cryptococcus pneumoniae* infection" at Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**1 December 2005-30 November 2009:** Research Associate within the FIRB Project "Parasitology and Molecular Microbiology Laboratory: Development of an integrated platform for the use of Micro-array for antigens in microbiological diagnosis (Code RBLA03C9F4)" at Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**1 December 2004-30 November 2005:** Research scholarship promoted by the CRESCI Consortium within the D4 Measure entitled "Potentiating human resources in the sector of research and technological development" at Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**2 March 2005-1 April 2005:** Research collaboration within the project "Statistical analysis of results obtained with various in vitro and in vivo experimental systems" at Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**1 August 2004-31 October 2004:** Research support within the project "Infectious diseases: developing and perfecting innovative strategies" at Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**1 November 2003-30 June 2004:** Research collaboration within the project "Innovative immunotherapeutic approaches in the fight against opportunistic infections (immune evasion and immune regulation of the capsular material of *C. neoformans*)" at Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**6 April 2003-31 October 2003:** Research collaboration within the project "Extraction and molecular characterization of *C. neoformans* mannoproteins and their potential use in the prevention and treatment of cryptococcosis" at

Microbiology Section, Department of Experimental Medicine & Biochemical Sciences, University of Perugia, Faculty of Medicine.

**Teaching activity:**

**15 March 2019-present (A.A. 2019-2020):** member of the teaching board of the Doctoral school: “Clinical and Experimental Medicine (CEM) – University of Modena and Reggio Emilia.

**14 March 2018-present:** Teaching activity concerning the analysis of microbial biofilms on abiotic and biotic matrices and *in vivo*, at the Doctoral School: “Clinical and Experimental Medicine (CEM), University of Modena and Reggio Emilia.

**Academic year 2022/2023-present:** Professor of Microbiology for the Bachelor of Pharmacy, University of Modena and Reggio Emilia.

**Academic year 2019/2020-present:** Professor of Microbiology for the Bachelor of biomedical laboratory techniques, University of Modena and Reggio Emilia.

**Academic year 2018/2019-present:** Professor of Microbiology for the Bachelor of Dentistry and dental prosthetics, University of Modena and Reggio Emilia.

**Academic year 2017/2018-present:** Member of the Board of the School of Specialization in Microbiology and Virology, University of Modena and Reggio Emilia.

**Academic year 2016/2017-present:** Professor of Microbiology for the Bachelor of obstetrics, University of Modena and Reggio Emilia.

**Academic year 2016/2017-present:** Professor of Microbiology and Virology for the Bachelor of Dental Hygiene, University of Modena and Reggio Emilia.

**Academic year 2012/2013-2016/2017:** Supervisor of thesis, degree course of Pharmacy, University of Perugia.

**Academic year 2011/2012-2016/2017:** Assistant serving on the committee for microbiology exam, degree course of Pharmacy, University of Perugia.

**Academic year 2010/2011-2016/2017:** Assistant serving on the committee for microbiology exam, degree course of Chemical and Pharmacological Technology, University of Perugia.

**The details of the teaching activity can be found at the following link:**

<https://personale.unimore.it/rubrica/insegnamenti/pericolinie>

**Supervision of Master students and PhD students**

**2014-2016:** Three master's students and a doctoral student, Department of Experimental Medicine, University of Perugia.

**2016-2022:** Five master's students, four undergraduate students and three doctoral students, Department of Surgical, Medical, Dental and Morphological Sciences with Interest transplant, Oncological and Regenerative Medicine, University of Modena.

**From 2023:** Committee member for the evaluation of 4 PhD candidates (UNIPR, UNITS, UNIPG and UNIROMA3)

**Member in graduation committees:**

**2022:** member of the graduate commission in Biological sciences and applied experimental biology

**2022:** member of the graduate commission in Biomedical laboratory techniques

**2020:** member of the graduate commission in Medical and industrial biotechnology

**2017:** member of the graduate commission in Biotechnology

**Organization of scientific meetings**

**July 10, 2024:** Scientific responsible for the course "Vaginosis, vaginitis and dysbiosis: prevention and new therapeutic horizons - the Adrian project" held in Modena, Italy

**December 5, 2023:** Scientific responsible for the course "Sexually transmitted diseases: models of study, diagnosis and oncological risk" held in Modena, Italy

**June 7, 2023:** Scientific responsible for the course "Sexually transmitted infections: a clinical and social problem" held in Modena, Italy.

**October 3-7, 2011:** Assistant at the “7<sup>th</sup> FINSysB Research Skills Training Workshop: Host Immunology of fungal infections & antibody engineering”.

**November 15-20, 2005:** Assistant at the “Galar Fungail 2 Training session and Consortium Meeting: Host Immune Response”.

**Specialist training:**

**May 16-22, 2015:** FEBS course: Human Fungal Pathogens, molecular mechanisms of host-pathogen interactions and virulence, La Colle sur Loup, France.

**July 4-11, 2014:** FEMS scholarship for the course: 4<sup>th</sup> CESC Central European Summer Course on Mycology “Biology of pathogenic fungi”, Szeged, Hungary.

**17 February-2 March 2013:** FEBS scholarship for the Advanced practical course: “State-of-the-art infection models for human pathogenic fungi”, Jena, Germany.

**September 2003:** Training course for animal care operators.

**Principal investigator of research projects/research fund Recipient:**

**NIH-R01 award n. 1R01AI189500-01A1:** Virulence mechanisms regulating *Candida*-driven vaginal epithelial exfoliation (60 months) (starting 01-04-2026) (PI, external-US unit).

**Principal investigator of the research agreement stipulated with the Recordati S.p.A. company entitled:** Comparative analysis of antifungal efficacy of Fenticonazole, in comparison with Fluconazole, on clinical strains of *Candida* spp in an in vitro model of vaginal infection (starting from 15.04.2026).

**Principal investigator of the research agreement stipulated with the Recordati S.p.A. company entitled:** Comparative analysis of antifungal efficacy of Fenticonazole, in comparison with Fluconazole, on clinical strains of *Candida* spp. Duration: 12 months (starting from 10.06.2025).

**PNRR, Mission 4, component 2 "From Research to Company" - Investment 3.3 DM630 del 24/04/2024.**

"Introduction of innovative doctorates that meet the innovation needs of company and promote the hiring of researchers from company". Funding of a PhD scholarship entitled: Effect of bacterial lysates on pathogens responsible of urogenital infections (PI of the project and co-tutor).

**Principal investigator of the research agreement stipulated with the Biofarma s.r.l. company entitled:** Beneficial activity of new active compounds against *E. coli* in in vitro and an ex-vivo models of urinary bladder cell infection. Duration: 20 months (starting from 15.04.2024).

**Ricerca Corrente 2022 IRCSS Burlo Garofolo Trieste:** Interactions among vaginal microbiome, mucosal immunity and candida vaginitis: impact on women health (12 mesi) (PI external partner Unimore)

**PRIN-2022: DORIAN:** Defining the molecular mechanisms of tolerance breakdown in vulvovaginal candidiasis (24 months) (starting 26-09-2023) (PI of the project).

**FAR-2022-instrumentation line.**

**FAR Mission Oriented 2022: ADRIAN:** a microbiota-based strategy against vaginal infections. Duration: 18 months (starting 1-11-2022).

**Principal investigator of the research agreement stipulated with the IMA-Life S.p.A. company entitled:** Analysis of the adequacy of biological indicators in the evaluation of sterilization / sanitation systems and development of new experimental protocols for the use of biological indicators in the validation of sterilization systems. Duration: 3 years (starting from 4.10.2022).

**PNRR, Mission 4, component 2 "From Research to Company" - Investment 3.3 DM352 del 9/04/2022.**

"Introduction of innovative doctorates that meet the innovation needs of company and promote the hiring of researchers from company". Funding of a PhD scholarship entitled: An experimental approach that integrates use of microbial strains, bioactive substances, in vitro, ex-vivo, in vivo and "untargeted" metabolomics models, to identify and analyze the activity of candidate's probiotics, prebiotics, postbiotics and bioactive molecules to be used for the treatment of vaginal infections. (PI of the project and tutor).

**PON "Research and Innovation" 2014-2020. Action IV.5 - "PhD Green".** One PhD scholarship for the project: Modulation of the multispecies resident microbiota: an innovative and personalized therapeutic strategy for the treatment of vaginal infections due to *Candida albicans* (PI of the project and tutor)

**Bando PE 2020 - Public Engagement 2020 mod. aperta:** project MicroModenaLab (starting 2020).

**FAR-2017 (Fondo di Ateneo per la Ricerca 2017):** Evaluation of *Pseudomonas aeruginosa* biofilm development on endotracheal tubes followed by bioluminescence imaging. Duration: 2 years.

**FFABR-2017 (Finanziamento delle Attività Base di Ricerca 2017).**

**Principal investigator of the research agreement stipulated with the COMECER S.p.A. company entitled:** Development of new experimental protocols for the use of biological indicators in the validation of the efficiency of sterilization systems. Duration: 3 years (starting from 10.12.2019).

**Participation in research projects:**

**FAR-2024 (Fondo di Ateneo per la Ricerca 2024):** Characterization of probiotic and/or postbiotic activity of clinical isolates of *S. cerevisiae* and identification of novel natural bioactive molecules.

**FAR-2021 (Fondo di Ateneo per la Ricerca 2021):** Role of Human Herpesviruses in COVID-19 pathogenesis.

**FP7-PEOPLE-2007-1-1-ITN:** Pathogenomics and Systems Biology of Fungal Infections An Integrative Approach.

**FP6-2002-MOBILITY-1:** Interaction of fungal pathogens with host cells: a post-genomic approach.

**FIRB 2003:** Laboratory of Molecular Microbiology and Parasitology: development of an integrated platform for the use of micro-array of antigens in the microbiological diagnosis.

**PRIN 2005:** Analysis of system biology in the immune response against pathogenic microorganisms.

**PRIN 2003:** The vaccine technology in the post-genomic era: the transgenes, dendritic cells and receptor ligands.

**Professional Activities:**

Ad hoc reviewer *PLoS ONE*  
Ad hoc reviewer *Virulence*  
Ad hoc reviewer *Journal of Functional Foods*  
Ad hoc reviewer *mBio (ASM)*  
Ad hoc reviewer *Frontiers in Microbiology*  
Ad hoc reviewer *Journal of Hospital Infection*  
Ad hoc reviewer *Medical Mycology*  
Ad hoc reviewer *Infection and Immunity (ASM)*  
Ad hoc reviewer *Mediators of Inflammation*  
Ad hoc reviewer *Frontiers in Pharmacology*  
Ad hoc reviewer *Science Advances (AAAS)*  
Ad hoc reviewer *Microbiology spectrum (ASM)*  
Ad hoc reviewer *Experimental and Molecular Medicine*  
Ad hoc reviewer *Mucosal Immunology*

Scientific Board project [Microbioma.it](http://Microbioma.it)

#### **Member of Editorial boards**

Review Editor *Frontiers in Microbiology* (8.2.18-present)  
Topic Editor *Microorganisms* (July 2020-present)  
Associate Editor *BMC microbiology* (November 2020-present)  
Editor *Frontiers in Immunology* (9.3.21-present)  
Associate Editor *Frontiers in Microbiology* section *Medical Mycology* (26.8.2022-present)  
Editor for *Microbiology Spectrum* (April 2024-present)

#### **Speaker at Conferences:**

33<sup>th</sup> National conference of the Italian Society of Microbiology. Naples October 16-19, 2005.  
2<sup>th</sup> National conference of the Italian Society of Pharmaceutical Microbiology. Naples October 19-20, 2005.  
4<sup>th</sup> CESC. Szeged, Hungary. July 4-11, 2014.  
42<sup>th</sup> National conference of the Italian Society of Microbiology. Turin 28 September-1 October 2014.

#### **Invited Speaker at Conferences:**

41<sup>th</sup> National conference of the Italian Society of Microbiology. Riccione October 13-16, 2013.  
49<sup>th</sup> National conference of the Italian Society of Microbiology. On-line. September 16-17 and 20-21, 2021.  
Webinar on Host-pathogen interaction (fourth meeting 2022), organized by the Italian Society of Microbiology. On-line. July 18, 2022.  
ECM course: Infiammazione, immunità ed infezioni del basso tratto genitale. Modena 22-2-2023  
ECM course: Infiammazione, immunità ed infezioni del basso tratto genitale. Milano 2-3-2023  
2<sup>nd</sup> course: "Up-to date on...infezioni in ostetricia e ginecologia". Trieste 22-11-2023  
3<sup>rd</sup> day of Update On the low Genital tract. Venezia – Mestre 24-5-2024.  
ECM course: Pontine Gynecological Days. Sabaudia April 11-12 2025.  
ECM course: More Obgyn, Gynecology and Obstetrics of Modena and Reggio Emilia Days. Modena June 5 - 6, 2025.

#### **Awards:**

**27-30 September 2015:** Best Poster award for the session: "Microorganism/Host interactions". 43<sup>o</sup> National Congress of the Italian Society of Microbiology, Naples, Italy, 27-30 September 2015.

#### **Membership in scientific societies**

**Since 2005:** SIM

**Since 2012:** FEBS, FEMS and ASM

**Modena, May 14, 2026**

**Eva Pericolini**

