Curriculum Vitae Prof. Antonella Mencacci

PERSONAL INFORMATION

Antonella Mencacci

University of Perugia, Department of Medicine and Surgery,
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Gender F | *Date of birth* 17.05.1962 | *Nationality* ITALIAN

Enterprise	University	EPR
☐ **Management Level**	X **Full professor**	☐ **Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator**
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2021 - Present

President of the Degree Course in Biomedical Laboratory Techniques

University of Perugia; Sector: academic

2021 - Present

Deputy Director of the "Dipartimento di Diagnostica per Immagini e di Laboratorio"

Azienda Ospedaliera di Perugia; Sector: healthcare assistance

2020 - Present

Director of the Microbiology and Virology Specialization School for Medical Doctors

University of Perugia; Sector: academic

2019 - Present

Full Professor, Microbiology and Clinical Microbiology, MED/07(06/A3)

University of Perugia

Head of the Microbiology and Clinical Microbiology Section of the Department of Medicine and Surgery, University of Perugia; Sector: academic

2015 - Present

Director of "Struttura Complessa di Microbiologia", Perugia General Hospital, Perugia, Italy [Azienda Ospedaliera di Perugia]

Head of the Clinical Microbiology Laboratory of the Perugia General Hospital, the main tertiary care hospital of the Umbria Region and Reference Laboratory of Umbria Region. Sector: healthcare assistance

EDUCATION AND TRAINING

2014 — **"Corso di Formazione Manageriale per Dirigenti di Struttura Complessa"**
Regione Umbria

06.02.2014 — **"Idoneità Professore I Fascia",** Microbiology and Clinical Microbiology MED/07(06/A3) "Abilitazione Scientifica Nazionale, Bando 2012 (DD n. 222/2012)"

01.11.2006 — **Assistant Professor,** Microbiology and Clinical Microbiology, MED/07(06/A3)
University of Perugia

01.11.1995 — **University Researcher**
Faculty of Medicine and Surgery, University of Perugia

25.10.1995 — **Specialist in Microbiology and Virology**, 50/50 magna cum laude
Faculty of Medicine and Surgery, University of Perugia

27.10.1989 — **Degree in Medicine and Surgery**, 110/100 magna cum laude
University of Perugia

WORK ACTIVITIES

Awards

- 12.04.1994: Young Investigator Award; International Immunocompromised Host Society

Editorial activity

- 210.11.2023 – Present: **FRONTIERS IN CLINICAL MICROBIOLOGY**, Diagnostics and Laboratory Medicine, Editorial Board (Review Editor).
- 10.10.2022 – Present: **FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY**, ISSN 2235-2988, Guest Editor of the Research Topic "Clinical impact of fast platforms and laboratory automation for the rapid diagnosis of infectious diseases and detection of antimicrobial resistance determinants".
- 6.11.2019 – Present: **PATHOGENS**, EISSN 2076-0817, Member of the Editorial Board.

Invited participations to scientific conferences.

- 124° Congresso Nazionale SIMI, Nuove tecniche microbiologiche di supporto per la terapia antibiotica mirata, Rimini 20-22/10/2023
- Aggiornamenti sulla Diagnostica Microbiologica delle Infezioni del torrente Circolatorio, AMCLI, Perugia 28 Sep 2023.
- La diagnostica microbiologica per l'Antimicrobial Stewardship nell'era delle multi-resistenze, AMCLI, Roma 15 Nov 2022.
- Congresso Nazionale della Società Italiana di Microbiologia, Napoli 18-21 Sep 2022.
- XLIX Congresso nazionale AMCLI, Rimini 26 Feb – 1 Mar 2022
- 49° Congresso nazionale della Società Italiana di Microbiologia, 16-17; 20-21 Sep 2021.
- 29th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Amsterdam, 13-16 Apr 2019.

Research Grants

Active grants:

- 27.07.2023: PRIN PNRR 2022 – Pharmacogenetics of lenvatinib in advanced thyroid cancer patients: correlation with adverse events and clinical outcome – Code P2022X28PB (Unit Member)
- 20.07.23: PRIN 2022 – The microbiome breast cancer therapy and potential for probiotics to improve treatment outcome, Acronyme BARRIO, Code 2022WBBTBC (Unit Member)
- 27.10.2022: Progetto di Ricerca di Ateneo – MMMAINSTREAM: MDRO, microbiome, metabolites and inflammatory signature for personalized medicine (Principal Investigator)

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s): English, Greek

Professional skills

- **Leadership.** Head of the Microbiology and Clinical Microbiology Section, Dept. of Medicine and Surgery, University of Perugia, which includes 3 Assistant Professors, 1 Researcher, 1 PhD student, and 4 Lab technicians. Head of the Clinical Microbiology Laboratory of the Perugia General Hospital, made up of a team of more than 40 people, and 6 resident students.
  Research activities: 2002 – Present: Research in the field of clinical microbiology, with particular reference to the diagnosis of sepsis and other infections with innovative technologies. Biomarkers. Epidemiology of infections by MDRO and emerging pathogens. Collaboration in several National networks for the surveillance of MDRO infections. Antimicrobial activity of new drugs against MDRO.
  1992-2006: Basic research on immune response to fungal infections.
  Healthcare assistance: Introduction of many innovative diagnostic technologies; Definition of diagnostic and therapeutic protocols used in the Perugia General Hospital and Umbria Region; Member of the Group for the Control of Hospital infections and for Antimicrobial and Diagnostic Stewardship.
- **Teaching**: Professor of Microbiology and Clinical Microbiology at the Faculty of Medicine and Surgery of the University of Perugia; School for Biomedical Laboratory Technicians and various specialization courses of the Medical School.
- **Responsibility** for the Regional MDRO surveillance program and SARS-CoV-2 genomic surveillance program.
- **Collaboration** with different research groups, mostly related to surveillance of MDR infections: AMCLI-CRAb Survey; AMCLI-CRE Survey; National Surveillance System Collaboratory Centers; Neisseria gonorrhoeae Antimicrobials Resistant Study; Network EuSKAPE-Italy; Italian Project of surveillance of antibiotic resistance AR-ISS; Italian Multicenter Study of Antitubercular Resistance (SMIRA); Rete Italiana per la Sorveglianza Genomica di SARS-CoV-2 e delle sue Varianti. Member of the National working group for the infections in the critical patients GLIPaC. Collaboration with the Italian National Institute of Health (ISS) for the monitoring of invasive bacterial infections and MDRO surveillance.

Digital skills

- Data Management and Analysis: Experience in using the Microsoft Office package (Word, Excel, PowerPoint).
- Online Collaboration and Communication: Skilled in utilizing online conference platforms
- Laboratory Information System (LIS): Proficient in utilizing LIS for efficient management of microbiological data, including specimen tracking, test results, and quality control.
- Technical Troubleshooting: Ability to troubleshoot and resolve technical issues related to laboratory equipment, software, and data systems to maintain smooth operations within the Laboratory.

ADDITIONAL INFORMATION

Statement of Research Interests

2002 - Present: Clinical microbiology, particularly novel technologies for the rapid diagnosis of sepsis and other time-dependent infections. Epidemiology of infections by MDRO and emerging pathogens. Collaboration in several National networks for the surveillance of infections or studies of antimicrobial activity of new drugs against MDRO. Participation in multicentre clinical studies employing new diagnostic technologies. Study of biomarkers of sepsis.
1990 – 2001: Immune response to opportunistic infections, especially fungal infection in preclinical models.

Publications and metrics

- Total number of publications in peer-review journals (Scopus, 14.11.2023): **166**
- Total number of citations (Scopus, 14.11.2023): **6.804**
- H-index (Scopus, 14.11.2023): **47**

Complete list of publications: https://www.scopus.com/authid/detail.uri?authorId=7003422751

Selected relevant publications (5):

- Mencacci A, De Socio GV, Pirelli E, Bondi P, Cenci E. Laboratory automation, informatics, and artificial intelligence: current and future perspectives in clinical microbiology. Front Cell Infect Microbiol. 2023 Jun 27;13:1188684. doi: 10.3389/fcimb.2023.1188684. *Perspective on the role and clinical impact of automation in microbiological diagnostics, especially in time-dependent infections.*
- Codda G, Willison E, Magnasco L, Morici P, Giacobbe DR, Mencacci A, Marini D, Mikulska M, Bassetti M, Marchese A, Di Pilato V. In vivo evolution to echinocandin resistance and increasing clonal heterogeneity in Candida auris during a difficult-to-control hospital outbreak, Italy, 2019 to 2022. Euro Surveill. 2023 Apr;28(14):2300161. doi: 10.2807/1560-7917.ES.2023.28.14.2300161. *Evolution of resistance to echinocandins in clinical isolates of Candida auris.*
- Paggi R, Cenci E, De Socio GV, Belati A, Marini D, Gili A, Camilloni B, Mencacci A. Accuracy and Impact on Patient Management of New Tools for Diagnosis of Sepsis: Experience with the T2 Magnetic Resonance Bacteria Panel. Pathogens. 2021 Sep 2;10(9):1132. doi: 10.3390/pathogens10091132. *Clinical impact of the application of non-culture-dependent molecular diagnostics in sepsis.*
- De Angelis G, Paggi R, Lowery TJ, Snyder JL, Menchinelli G, Sanguinetti M, Posteraro B, Mencacci A. Direct Testing for KPC-Mediated Carbapenem Resistance from Blood Samples Using a T2 Magnetic Resonance Based Assay. Antibiotics (Basel). 2021 Aug 6;10(8):950. doi: 10.3390/antibiotics10080950. *Evaluation of T2 MR-based molecular detection of resistance gene determinants directly in the blood of patients with Gram-negative bacterial bloodstream infections.*
- Cenci E, Paggi R, Socio GV, Bozza S, Camilloni B, Pietrella D, Mencacci A. Accelerate Pheno™ blood culture detection system: a literature review. Future Microbiol. 2020 Oct;15:1595-1605. doi: 10.2217/fmb-2020-0177. *Overview of a new technology for rapid phenotypic antimicrobial susceptibility testing.*

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Perugia, November 20th 2023

Signature
Prof. Antonella Mencacci