

CURRICULUM VITAE



PERSONAL INFORMATION



Barbara Camilloni

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Gender [F] | *Date of birth* [17.11.1972] | *Nationality* [Italian]

WORK EXPERIENCE

2009 – Present

University Researcher, Microbiology and Clinical Microbiology, MED/07 (06/A3), University of Perugia
She carries out research at the Microbiology Section of University of Perugia, teaching activities at many degree courses and she is a hospital biologist at the “Struttura Complessa di Microbiologia”, Perugia General Hospital

2008-2009

Research Technician at Section of Virology of the Surgical and Medical Specialties and Public Health at the University of Perugia

1998-2007

Research grant at Section of Virology of the Surgical and Medical Specialties and Public Health at the University of Perugia

EDUCATION AND TRAINING

01.10.2009

Researcher Assistant in Microbiology and Clinical Microbiology, Faculty of Medicine and Surgery, University of Perugia
Sector – Teaching and academic research

10.01.2013

Ph.D. in “Molecular pathogenesis, immunology and control of the transmissible agents that cause the main diseases associated with poverty: malaria, AIDS and tuberculosis”, University of Perugia
Research activities focused on virus infections and immune response to viral vaccinations,
Sector – Academic research

20.10.2001

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

27.10.1996

Degree in Biological Science 110/110 magna cum laude, University of Perugia

WORK ACTIVITIES

Editorial activity

Reviewer of several peer reviewed journals of the discipline.

Invited participations to scientific conferences.

2018 – Ruolo del Laboratorio di Microbiologia nell'applicazione del Piano Nazionale di Prevenzione Vaccinale per la Pertosse, Morbillo, Rosolia, Parotite e Varicella. Morbillo: la sorveglianza negli operatori sanitari nell'Azienda Ospedaliera di Perugia. Perugia, 25 ottobre, 2018

2018 - Board scientifico organizzato da Sanofi Pasteur su "Vaccinazione antinfluenzale in età pediatrica" Roma 23 gennaio 2018

2020 - Evento di Formazione della Scuola Umbra di Amministrazione Pubblica. Infezione da SARS-CoV-2: La diagnosi sierologica. Perugia, 10 dicembre 2020

2020 - Evento di formazione in FAD "Focus-on: Coronavirus COVID-19 emergenza pandemia" 24 Aprile 2020 e 31 Luglio 2020

2021 – Evento di formazione in FADF "QUALITÀ & MEDICINA DI LABORATORIO LO STATO DELL'ARTE NEL CENTRO ITALIA". Medicina di Laboratorio & Microbiologia. Evento di Formazione dell'Ordine Nazionale dei Biologi - 05 Luglio 2021

2023 - One-Health: una sola scienza per un approccio unico contro le zoonosi. Focus su leishmaniosi e TBDs in centro Italia. Dipartimento di Medicina Veterinaria Università di Perugia. Perugia, 1° dicembre, 2023

2025 - Infezione da HCV: virus, quadri clinici ed epidemiologia. Il farmacista e l'epatite C. Prevenzione screening, counseling e terapia farmacologica. Evento di formazione dell'Ordine dei Farmacisti della provincia di Perugia, 13 gennaio 2025

Research Grants

Active grants:

- PRIN 2022 MOSWARM "Demystifying mosquito sex: unraveling Mosquito SWARMS with lab-based 3D video tracking (Unit member)
- Progetto del Fondo per la Crescita Sostenibile "Valorizzazione del potenziale terapeutico del resveratrolo nella medicina personalizzata mediante combinazione con altri principi attivi in formulazioni innovative" VaPoRe 1 Marzo 2023
- Bando a cascata "Caratteristiche cliniche, microbiologiche ed immunologiche di pazienti critici con infezioni del tratto respiratorio acquisite in comunità: Uno studio prospettico osservazionale multicentrico nazionale (The SIS-NET ICU study)"

Completed grants:

- FIRS 2020 Progetto – FISR2020IP_05058 "Sviluppo di un vaccino ad acidi nucleici contro il virus SARS-COV-2 utilizzando le piastrine come cellule presentanti l'antigene. Codice FISR2020IP_05058" (Unit member)
- PRIN 2010-11 (2013-2016) SKINFLAM "La risposta infiammatoria della cute ad agenti infettivi e danno tissutale: analisi trascrittomica, post-trascrittomica e studi funzionali a livello della singola cellula (Coordinator since 2016).

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

Professional skills

- Research activity: study of influenza viruses and immunogenicity of influenza vaccines in risk categories such as the elderly, HIV-positive subjects, subjects on anticoagulant therapy or diabetic children. The studies focused on comparing different influenza vaccines and defining their efficacy and immunogenicity in different target groups of the population. Participation in the FLUCOP project supported by IMI (Innovative Medicine Initiative) for the "Standardization and development of assays for the evaluation of the protective correlates of the influenza vaccine".
- Collaboration with the Italian National Institute of Health (ISS): Referent for the surveillance activity of respiratory viruses in Umbria (Italian Influenza Network – Influnet, today RespiVirNet); Referent for the surveillance activity of Poliovirus infections in Umbria; Referent for the surveillance activity of Arbovirus in Umbria.
- Teaching: Professor at the Master's degree course in Biological Sciences, at the Bachelor's degree for Biomedical Laboratory Technicians and for Biotechnology; various medical School Specialization courses.
- Member of the PhD board of "SCIENZE BIOLOGICHE E NATURALI" University of Perugia.
- Healthcare assistance: introduction of technologies for the diagnosis of respiratory viral infections and in particular for SARS-CoV-2 infections.

Digital skills

- Use of different communication platforms (e.g. Teams, Google Meet, Zoom)
- Knowledge of Office package, particularly for the use in preparing oral presentations and collection of metadata
- Knowledge of TD-Synergy (Siemens) Laboratory Information System for Clinical Microbiology

ADDITIONAL INFORMATION

Statement of Research Interests

Clinical virology, particularly infections caused by epidemic (Enterovirus, season Influenza virus, Rotavirus etc.), and pandemic viruses (Influenza H1N1 in 2009, SARS-CoV-2 since 2020 to present). Epidemiology of infections by emerging pathogens. Collaboration in several National networks for the surveillance of viral infections and studies of genetic and phenotypic characterization of influenza viruses.

Publications and metrics

- Total number of publications in peer-review journals (Scopus): [62]
- Total number of citations (Scopus): [1290]
- H-index (Scopus): [20]

Complete list of publications: <https://www.scopus.com/authid/detail.uri?authorId=8289035100>

Selected relevant publications (last 5 years):

1. Palmieri C, Bartolini L, Berlinger A, **Camilloni B**, La Bella G, Pascarella M, Selleri M, Valzano F, Vismara C, Ambretti S, Fontana C, Rassu M, Rossolini GM, Arena F, Mencacci A; GLIPaC Working Group. Evaluation of a digital remote extraction analysis and monitoring tool for key performance indicators (KPIs) in the blood culture process. Eur J Clin Microbiol Infect Dis. 2025 Aug 18. doi: 10.1007/s10096-025-05238-x. Epub ahead of print. PMID: 40824338.
2. Petito E, Guglielmini G, De Robertis E, Becattini C, Franco L, Falcinelli E, Conti C, Gori F, Vaudo G, Cerotto V, Paliani U, Mezzasoma L, **Camilloni B**, Gresele P; COVIR study investigators. Platelets from COVID-19 Patients Show an Altered Nitric Oxide/Reactive Oxygen Species Production Balance. Thromb Haemost. 2025 Apr 30. doi: 10.1055/a-2562-4516. Epub ahead of print. PMID: 40306665.
3. Garbuglia AR, Koja G, Villano U, Minosse C, Equestre M, Paucillo S, Coppola A, Madonna E, Picchi G, Di Biase J, Dalessandro M, Ruggetti A, Casinelli K, **Camilloni B**, Mariani R, Grimaldi A, Ciccaglione AR, Bruni R. HEV-3 subtypes and strains detected in cases of HEV infection in central Italy from 2015 to 2023. Infection. 2025 Apr;53(2):523-534. doi: 10.1007/s15010-024-02348-0. Epub 2024 Sep 10. PMID: 39254751.
4. Giombini E, Schiavoni I, Ambrosio L, Lo Presti A, Di Martino A, Fiore S, Leone P, Fortunato F, Prato R, Fedele G, Palamara AT, Stefanelli P; **Italian Genomic Laboratory Network**. JN.1 variants circulating in Italy from October

- 2023 to April 2024: genetic diversity and immune recognition. *BMC Infect Dis.* 2025 Feb 28;25(1):291. doi: 10.1186/s12879-025-10685-0. PMID: 40022017; PMCID: PMC11871800.
5. Borghi, M.; Graziani, A.; Marini, D.; Madonna, E.; Villano, U.; Suffredini, E.; Vicenza, T.; Mataj, E.; Bruni, R.; Ciccaglione, A.R.; **Camilloni, B.*** Bozza S. Case of Fatal Hepatitis Related to HEV-3 Infection in Central Italy. *Viruses* **2024**, *16*, 1869. <https://doi.org/10.3390/v16121869>
 6. Giovanni Cochetti, Michele Del Zingaro, Giuseppe Maiolino, Alessio Paladini, Matteo Mearini, Riccardo Schiavina, Lorenzo Bianchi, Lorenzo De Angelis, Mattia Panciarola, **Barbara Camilloni**, Eugenio Brunocilla, Ettore Mearini. SARS-CoV-2 in semen: a multicenter prospective study and literature review. *Basic Clin. Androl.* **34**, 24 (2024). <https://doi.org/10.1186/s12610-024-00236-z>
 7. Bicchieraro G, Ciurnelli R, Graziani A, Wong AYW, **Camilloni B**, Mencacci A, Spaccapelo R. SARS-CoV-2 Molecular Evolution: A Focus on Omicron Variants in Umbria, Italy. *Microorganisms.* 2024 Jun 29;12(7):1330. doi: 10.3390/microorganisms12071330. PMID: 39065097; PMCID: PMC11279337.
 8. Graziani A, Bozza S, Borghi M, Mencacci A, **Camilloni B**. Circulation and Seasonality of Respiratory Viruses in Hospitalized Patients during Five Consecutive Years (2019-2023) in Perugia, Italy. *Viruses.* 2024 Aug 30;16(9):1394. doi: 10.3390/v16091394. PMID: 39339870; PMCID: PMC11437418.
 9. Garbuglia AR, Koja G, Villano U, Minosse C, Equestre M, Pauciuolo S, Coppola A, Madonna E, Picchi G, Di Biase J, Dalessandro M, Rughetti A, Casinelli K, **Camilloni B**, Mariani R, Grimaldi A, Ciccaglione AR, Bruni R. HEV-3 subtypes and strains detected in cases of HEV infection in central Italy from 2015 to 2023. *Infection.* 2024 Sep 10. doi: 10.1007/s15010-024-02348-0. Epub ahead of print. PMID: 39254751.
 10. E. Schiaroli, A. Gidari, G. Brachelente, G. Bicchieraro, R. Spaccapelo, S. Bastianelli, S. Pierucci, C. Busti, C. Pallotto, L. Malincarne, **B. Camilloni**, F. Falcinelli, GV De Socio, A. Villa, A. Mencacci, D. Francisci. Impaired neutralizing antibody efficacy of tixagevimab-cilgavimab 150+150 mg as pre-exposure prophylaxis against Omicron BA.5. A real-world experience in booster vaccinated immunocompromised patients. *Journal of Clinical Virology* 168 (2023) 105584
 11. Bozza S, Graziani A, Borghi M, Marini D, Duranti M, **Camilloni B**. Case report: *Coxiella burnetii* endocarditis in the absence of evident exposure. *Front Med (Lausanne).* 2023 4;10:1220205. doi: 10.3389/fmed.2023.1220205.
 12. Farzad Beikpour, Monica Borghi, Eleonora Scoccia, Teresa Vicenza, Andrea Valiani, Simona Di Pasquale, Silvia Bozza, **Barbara Camilloni**, Loredana Cozzi, Piero Macellari, Vito Martella, Elisabetta Suffredini, Silvana Farneti, "High Prevalence and Genetic Heterogeneity of Genotype 3 Hepatitis E Virus in Wild Boar in Umbria, Central Italy", *Transboundary and Emerging Diseases*, 2023, Article ID 3126419, 9 pages, 2023. doi.org/10.1155/2023/3126419
 13. Tedeschini E, Pasqualini S, Emiliani, Marini E, Valecchi A, Laoreti C, Ministrini, S, Camilloni B, Castronari R, Patoia L, Merante F, Baglioni S, De Robertis E, Pirro M, Mencacci A and Pasqualini L. Monitoring of indoor bioaerosol for the detection of SARS-CoV-2 in different hospital settings. *Frontiers in Public Health* 2023, Vol. 11 doi: 10.3389/fpubh.2023.1169073
 14. Stefanelli P, Trentini F, Petrone D, Mammone A, Genomic SARS-CoV-2 National Surveillance Working Group; Italian Integrated Surveillance of COVID-19 Study Group; **Italian Integrated Surveillance of COVID-19 Study Group; Genomic SARS-CoV-2 National Surveillance Working Group**. Tracking the progressive spread of the SARS-CoV-2 Omicron variant in Italy, December 2021 to January 2022. *Euro Surveill.* 2022 Nov;27(45):2200125. doi: 10.2807/1560-7917.ES.2022.27.45.2200125.
 15. Stefanelli P, Trentini F, Guzzetta G, Marziano V, Mammone A, Sane Schepisi M, Poletti P, Molina Grané C, Manica M, Del Manso M, Andrianou X, Ajelli M, Rezza G, Brusaferro S, Merler S; **COVID-19 National Microbiology Surveillance Study Group**. Co-circulation of SARS-CoV-2 Alpha and Gamma variants in Italy, February and March 2021. *Euro Surveill.* 2022 Feb;27(5):2100429. doi: 10.2807/1560-7917.ES.2022.27.5.2100429.
 16. Mencacci A, Gili A, **Camilloni B**, Bicchieraro G, Spaccapelo R, Bietta C, Stracci F. Immediate reinfection with Omicron variant after clearance of a previous SARS-CoV-2 infection. *J Infect Public Health.* 2022 Sep;15(9):983-985. doi: 10.1016/j.jiph.2022.07.013. Epub 2022 Jul 28. PMID: 35963101; PMCID: PMC9330370.
 17. Riccardo Paggi, Elio Cenci, Giuseppe Vittorio De Socio, Alessandra Belati, Daniele Marini, Alessio Gili, **Barbara Camilloni** and Antonella Mencacci. Accuracy and Impact on Patient Management of New Tools for Diagnosis of Sepsis: Experience with the T2 Magnetic Resonance Bacteria Panel. *Pathogens* 2021, 10, 1132. <https://doi.org/10.3390/pathogens10091132>
 18. Francesco Menichetti, **TSUNAMI Study group** et al. Effect of High-Titer Convalescent Plasma on Progression to Severe Respiratory Failure or Death in Hospitalized Patients With COVID-19 Pneumonia: A Randomized Clinical Trial. *JAMA Netw Open* 2021 Nov 1;4(11):e2136246. doi: 10.1001/jamanetworkopen.2021.36246.

19. Antonella Mencacci, Alessio Gili, Anna Gidari , Elisabetta Schiaroli, Carla Russo, Elio Cenci, **Barbara Camilloni**, Alessandro Graziani, Arduino Melelli-Roia, Daniela Francisci and Fabrizio Stracci. Role of Nucleocapsid Protein Antigen Detection for Safe End of Isolation of SARS-CoV-2 Infected Patients with Long Persistence of Viral RNA in Respiratory Samples. J. Clin. Med. 2021, 10, 4037. [https://doi.org/ 10.3390/jcm10184037](https://doi.org/10.3390/jcm10184037)
20. Funk Tjede, and **COVID study groups**. Characteristics of SARS-CoV-2 variants of concern B.1.1.7, B.1.351 or P.1: data from seven EU/EEA countries, weeks 38/2020 to 10/2021. Euro Surveill. 2021;26(16);pii=2100348. <https://doi.org/10.2807/1560-7917.ES.2021.26.16.2100348>Antonella
21. Mencacci, Maria Cristina Vedovati, **Barbara Camilloni**, Elio Cenci, Cecilia Becattini. Diagnosis of infection by SARS-COV-2: Is one molecular test enough? Eur J Intern Med, 2021 May;87:109-111. doi: 10.1016/j.ejim.2021.02.005. Epub 2021 Feb 12

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.