

## PERSONAL INFORMATION

## Elena Pariani



📍 University of Milan  
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Sex Female | *Date of birth* 13/07/1978 | *Nationality* Italian

## WORK EXPERIENCE

From April 1, 2016  
to now

### Associate professor in hygiene and public health

University of Milan, Department of Biomedical Sciences for Health  
Via Carlo Pascal, 36 – 20133, Milan (Italy)

- I direct and coordinate the regional reference laboratory for influenza and acute respiratory infections surveillance.
- Since January 2020, I direct and coordinate the regional reference laboratory for Covid-19.
- Since February 2020, I participate in the scientific technical committee established by the Lombardy region supporting the coordination of regional laboratories network involved in the diagnosis and sequencing of SARS-CoV-2.

Sector: Academic, Research, Public health

From October, 1 2015  
to March 31, 2016

### Post-PhD researcher

University of Genoa, Inter-University Research Center on influenza and other communicable infectious diseases (CIRI-IT)  
Via Pastore, 1 – 16100, Genoa (Italy)

- I was in charge of the development, validation and execution of molecular, serological and cell-based assays mostly aimed at the isolation and molecular characterization of seasonal and pandemic influenza viruses and other respiratory viruses.

Sector: Academic, Research, Public health

From October, 1 2012  
to September 30, 2015

### Assistant professor in hygiene and public health

University of Milan, Department of Biomedical Sciences for Health  
Via Carlo Pascal, 36 – 20133, Milan (Italy)

- I coordinated the laboratory activities of the regional reference laboratory for influenza and acute respiratory infections surveillance.
- I worked on the development and validation of new diagnostic molecular assays that rapidly detect and identify new viral airborne agents that may pose a public health risk because of their epidemic potential and for which there are no countermeasures (such as potential pandemic influenza viruses of non-human origin, SARS and MERS coronavirus, enterovirus D68).
- I developed sequencing analyses and applied advanced phylogenetic methods to study the molecular evolution of viruses, thus providing information on the origin and spread of epidemics and the appropriate measures for disease prevention and control.

Sector: Academic, Research, Public health

From November, 1 2006  
to September 30, 2012

### Post-PhD researcher

University of Milan, Department of Public Health-Microbiology-Virology  
Via Carlo Pascal, 36 – 20133, Milan (Italy)

- I worked on the development and validation of diagnostic molecular assays to detect and characterize airborne viruses.
- I applied advanced phylogenetic methods to study the molecular evolution of viruses and the introduction of new viral variants in the population are monitored and drug-resistant or vaccine-escape strains are identified, thus contributing to increase the current knowledge on the epidemiological features of circulating respiratory viruses.

- I led and was involved in studies evaluating the efficacy, effectiveness and the immunogenicity of influenza vaccines in high-risk populations for influenza-related complications (such as patients with underlying chronic diseases, immunocompromised individuals and pregnant women).

Sector: Academic, Research, Public health

From March, 1 2006  
to October 31, 2006

#### **Research assistant**

University of Milan, Department of Public Health-Microbiology-Virology  
Via Carlo Pascal, 36 – 20133, Milan (Italy)

- I was in charge of the development of diagnostic methods for the detection and the epidemiological study of respiratory acute infections and molecular characterization of viral isolates from individuals with influenza-like illness vaccinated against influenza.

Sector: Research

## EDUCATION AND TRAINING

From September 1, 2005  
to February 28, 2006

#### **Visiting scientist**

Public Health England, Respiratory virus unit, 61 Colindale Avenue - London (UK)

- Development, validation and execution of molecular, serological and cell-based assays aimed at the isolation and molecular characterization of seasonal and pandemic influenza viruses.

From November 1, 2002  
to October 31, 2005

#### **PhD fellowship in Public health**

University of Milan, Milan (Italy)

- Study of the humoral and cell-mediated immunological memory persistence in subjects vaccinated against hepatitis B more than 10 years before.

From 1997 to 2002

#### **Degree in Biological sciences**

University of Milan, Milan (Italy)

## WORK ACTIVITIES

#### **Awards**

- Abbott Award of the European Society for Clinical Virology (ESCV) for original contribution in the area of viral diagnosis, Athens (Greece) 2018.
- Best poster at the XXXV congress of the Italian association for clinical microbiology (AMCLI), Turin (Italy) 2006.

#### **Editorial activity**

Editorial board member:

- Biomed research international, Hindawi publishing corporation (2012)
- Journal of medical virology, Wiley (2014)
- Microorganisms, MDPI (2018)
- Frontiers in virology (2022)
- Frontiers in public health (2022)

## PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English (Cambridge Advanced C1)

Digital skills

Advanced user of the Microsoft Office (Excel, Word, PowerPoint, Teams); use of Ms Mail and the Internet.

Advanced user of the main bioinformatics softwares (MEGA, ClustalX, BioEdit).

## ADDITIONAL INFORMATION

#### **Statement of Research Interests**

My main scientific interest is the virological surveillance of acute respiratory infections within the framework of the Italian network Influnet&RespVirNet. The laboratory work of the researchers I coordinate incorporates the development, validation and execution of molecular, serological and cell-based assays aimed at the isolation, antigenic and genetic characterization of circulating respiratory viruses. In this setting, through molecular investigations and advanced phylogenetic analyses, the evolution of circulating viruses and the introduction of new viral variants in the population are monitored and drug-resistant or vaccine-escape strains are identified, thus contributing to increase the current knowledge on the epidemiological features of circulating respiratory viruses. My research team has been exploring new diagnostic approaches to rapidly detect and identify new viral airborne agents that

may pose a public health risk because of their epidemic potential and for which there are no countermeasures.

**Publications**    Orcid ID: 0000-0001-5681-3455  
Total number of publications in peer-review journals (Scopus): 119  
Total number of citations (Scopus): 1,514  
H index (Scopus): 21