

## PERSONAL INFORMATION

## ALDO MANZIN



📍 University of Cagliari  
Department of Biomedical Sciences  
Microbiology and Virology Unit  
Azienda Ospedaliero-Universitaria  
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| Enterprise                                       | University  | EPR  |
|--|---|--|
| <input type="checkbox"/> Management Level        | <input checked="" type="checkbox"/> Full professor  | <input type="checkbox"/> Research Director and 1st level Technologist /<br>First Researcher and 2nd level Technologist /<br>Principal Investigator |
| <input type="checkbox"/> Mid-Management Level    | <input type="checkbox"/> Associate Professor  | <input type="checkbox"/> Level III Researcher and Technologist   |
| <input type="checkbox"/> Employee / worker level | <input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII<br>level / Technical collaborator | <input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII<br>level / Technical collaborator  |

## WORK EXPERIENCE

- 2006-present **Full Professor of Microbiology and Clinical Microbiology**  
**University of Cagliari, Italy**
- **Head of the Microbiology and Virology Unit of Dept. Biomedical Sciences**
- 1989-2006 Medical Assistant at the Laboratory of Virology, Azienda Ospedaliero-Universitaria Ospedali Riuniti Ancona, Italy
- 1982-1989 Resident medical doctor at the Laboratory of Virology, Institute of Microbiology, University of Ancona Medical School, Azienda Ospedaliero-Universitaria Ospedali Riuniti Ancona

Business or sector Head of research units and diagnostic laboratory; Lectured in Microbiology and Virology in graduate and postgraduate courses, and in Ph.D school

## EDUCATION AND TRAINING

- 1988-1991 Specialization in Microbiology at the University of Genova Medical School
- 1984-1987 Specialization in Hygiene and Preventive Medicine at the University of Ancona Medical School
- 1983 Medical degree at the University of Ancona Medical School
- 1976 School leaving certificate with a mark of 58/60 (Liceo Classico "C. Rinaldini", Ancona)

- Basic and advanced microbiology and virology techniques
- Molecular biology and sequencing techniques
- New diagnostic strategies in medical microbiology and virology
- Development of quantitative molecular methods for the study of viral activity *in vivo*
- Molecular epidemiology of nosocomial infections
- Molecular epidemiology and characterization of antimicrobial resistance
- Role of emerging and zoonotic pathogens as cause of infectious diseases in humans
- Metagenomic analysis of human microbiome and virome in physiological and pathological conditions
- Dissection of humoral and cellular immune response against viral infections (including SARS-CoV-2)
- *In vitro* evaluation of the antiviral activity of natural and synthetic molecules
- Dissection of humoral and cellular immune responses to viral infections (including SARS-CoV-2)
- Neurodegenerative diseases of infectious origin: study of the protein misfolding process of the prion protein for the development of new strategies for the early diagnosis and therapy of transmissible (prion diseases) and non-communicable (Alzheimer's, Parkinson's, etc.) neurodegenerative proteopathies

**WORK ACTIVITIES** Professor Aldo Manzin, MD, is head of the Microbiology and Virology Unit, Department of Biomedical Sciences, University of Cagliari, Italy. In addition, Prof. Manzin is the Head of the Operational Unit of Applied Microbiology, AOU "D. Casula" of Cagliari.

He is a Full Professor of Microbiology and Virology at the Faculty of Medicine of the University of Cagliari and currently heads a laboratory active in clinical microbiology and virology, study of pathogen-host interplay, use of molecular tools in the diagnosis of infectious diseases, and study of the human virome and microbiome. He also has experience in the *in vitro* evaluation of the antiviral activity of natural and synthetic molecules and in the understanding of how enveloped viruses enter the target cell (early step in infection - focusing on highly transmissible respiratory viruses). He also has experience in the field of microbiology and clinical and diagnostic virology, having in recent years been interested in the molecular and clinical epidemiology of zoonoses and the study of diseases caused by emerging pathogens. The Microbiology and Virology Laboratories at the Department of Biomedical Sciences include the BSL2 Laboratories of Virology, Molecular Biology, Protein Misfolding, and the BSL3 Laboratory, all equipped with instruments dedicated to the detection and phenotypic and genotypic characterization of microorganisms in biological samples and to experimental procedures related such as cell cultures, biological and molecular assays for the isolation, purification, and characterization of microorganisms (eg, molecular cloning, qPCR), protein expression (eg, western-blot) and enzyme immunoassays (eg, ELISA).

He is the Director of the Specialisation School of Microbiology and Virology at the University of Cagliari, Past Regional Delegate of the Italian Clinical Microbiologists Association (AMCLI), and a Member of the Board of Directors of the Italian Society of Microbiology (SIM). He has authored nearly 135 scientific manuscripts on various aspects of basic and clinical microbiology and infectious diseases with more than 4300 citations and an h-index of 36. Scientific papers have been published in major journals in the fields of medical microbiology, virology, and medicinal chemistry.

**Editorial activity** Reviewer for international journals (including Journal of Hepatology, Microbes and Infection, Clinical Microbiology and Infection, Journal of Viral Hepatitis, Journal of Medical Virology, Recent Patent Reviews on Anti-infective Drug Discovery). Member of the Editorial board (Virology Section) of The Scientific World Journal

Author of chapters included in textbooks of Microbiology and Virology adopted in Medicine Courses

**Invited presentations** Speaker, moderator and / or organizer at numerous regional, national and international Congresses on topics of Microbiology and Clinical Virology

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English (C1)

Job-related skills Coordinator of the School of Specialization in Microbiology and Virology of the Faculty of Medicine and Surgery of the University of Cagliari, Italy;  
Past Regional Delegate of the Italian Clinical Microbiologists Association (AMCLI);  
Member of the Board of Directors of the Italian Society of Microbiology (SIM).

Digital skills Academic skills of writing and speaking; R programming; Macintosh and IOS; Microsoft Office; Scientific Databases search (PubMed, Scopus, Google Scholar); Manager GraphPad Statistics; Bioinformatics for computational genomics.

## ADDITIONAL INFORMATION

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### Statement of Research Interests

AM is currently leading a lab active in clinical microbiology and virology, study of pathogen-host interplay, use of molecular tools in diagnosis of infectious diseases, and study of the human virome and microbiome. He also has experience in the in vitro evaluation of the antiviral activity of natural and synthetic molecules, and in the understanding of the ways in which enveloped viruses enter the target cell (early step in infection - focusing on highly transmissible respiratory viruses). He also has experience in the field of microbiology and clinical and diagnostic virology, having in recent years been interested in the molecular and clinical epidemiology of zoonoses and the study of diseases caused by emerging pathogens.

### Publications

total number of publications in peer-review journals: 137

total number of citations: 4292

H index (Scopus): 36

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Researchgate <https://www.researchgate.net/profile/Aldo-Manzin/6>

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