

## Short Curriculum Vitae

Giovanni Maga  
Born 30/05/1965 in Pavia  
Lives in Pavia  
Married

### Current position:

Director of the Department of Biomedical Sciences of the CNR

### Scientific Interests:

Dr. G. Maga has been working since his graduation on the enzymology of DNA replication. His research has focused on the characterization of different enzymatic systems responsible for nucleotide metabolism and the duplication of the genetic information in human cells and viruses. His interest is devoted both towards the elucidation of basic molecular processes and to the exploitation of novel enzymatic targets for antiviral and anticancer chemotherapy.

Currently, he is interested in: i) Elucidating the biochemical pathways involved in coupling the DNA replication and repair machinery in human cancer cells, with particular emphasis on the role(s) of specialized DNA polymerases. ii) Understanding the host-virus molecular interactions in order to develop broad spectrum antiviral drugs.

Presently his main lines of research are:

Enzymology of DNA replication and repair in eukaryotic cells

Novel antiviral strategies against human viruses (HIV, HCV, influenza, arboviruses, SARS-CoV-2)

Novel targets and drugs for anticancer chemotherapy

Dr. Maga coordinates the technological platform for drug screening at the IGM-CNR, which offers services of target identification, cloning, expression and purification of cellular and viral proteins, enzymatic assays setup and optimization, screening of small molecules in vitro and in cell culture, mechanism of action determination.

### Education and work

Degree in Biological Sciences at the University of Pavia	1989
Master in Genetics at the University of Pavia	1990
PhD degree in Applied Genetics at the University of Pavia	1993
Postdoctoral fellow at the Institute of Veterinary Biochemistry, University of Zürich	1993–1996
Postdoctoral Fellow at the Institute of Molecular Genetics-CNR, Pavia (ICGEB Fellowship, ISS-AIDS Fellowship)	1997-1999
Contract Researcher at the Institute of Molecular Genetics-CNR, Pavia	2000-2001
Researcher at the Institute of Molecular Genetics-CNR, Pavia	2001-2005
First Researcher at the Institute of Molecular Genetics-CNR, Pavia	2005-2018

Head of the DNA Enzymology &Molecular Virology Section	2006-present
Contract Professor of Molecular Biology, University of Pavia	2011-present
Research Director at the Institute of Molecular Genetics-CNR, Pavia	2018-2019
Director of the Institute of Molecular Genetics-CNR, Pavia	2019-2023
Director of the Department of Biomedical Sciences CNR	2023-present

### **Scientific coordination**

Principal Investigator in several European (FP6) and National (MIUR, Ministero Salute, AIRC, Istituto Superiore Sanità, CARIPLO) Projects

He is currently being funded by a 5-years AIRC Investigator Grant, a 3-years PRIN grant and two 1-year grants from private foundations (Fondazione Banca del Monte di Lombardia, Fondazione San Paolo)

### **Editorial Activities**

Author of the Book "DNA polymerases" World Scientific Press (2010)

Author of the Book "Human DNA Polymerases" World Scientific Press (2017)

Editor of the Book "DNA Replication Repair and Recombination"

Research Signpost, 2008 (ISBN 978-81-308-0253-4)

Academic Editor of PLoS ONE (2012 – present)

Academic Editor of the International Journal of Molecular Sciences (2018-present)

Editorial Board Member of the Journal of Biological Chemistry (2010-2015)

Editorial Advisory Board member of The Biochemical Journal (2005-2015)

Guest Editor of Current Drug Metabolism

Guest Editor of Current Pharmaceutical Biotechnology

### **Memberships**

American Society for Biochemistry and Molecular Biology (2010 – 2015)

American Society of Microbiology (USA) (2014-2015)

Biochemical Society (London) (201-2015)

International AIDS Society (2016)

Società Italiana di Biofisica e Biologia Molecolare (2010-present)

Member of the Covid-19 Advisory Committee to the CNR General Director (2020-present)

CNR representative within the EU- G6 working group on pandemic preparedness (2021-2022)

CNR representative within the National Bioethics Committee (2022 - present)

Member of the National Ethics Committee for Clinical Studies (2022-present)

### **Publications**

Dr. Maga is author/co-author of 276 publications in international peer-reviewed journals, his H-index is 54 with 10657 citations (Scopus).

### **Dissemination activity to the public**

Dr. Maga wrote several popular science books for the Italian audience: "Occhio ai Virus" (Zanichelli, 2014, 2<sup>nd</sup> ed. 2021) awarded with the National Prize for Popular

Science in the health sciences category; “AIDS: la verità negata” (Il Pensiero Scientifico Editore, 2015), awarded with the Literary Prize Franz Kafka in the essays category and “Batteri spazzini e virus che curano: come le biotecnologie riscrivono la vita” (Zanichelli, 2016). “Quando la cellula perde il controllo” (Zanichelli, 2019). “Pandemia e Infodemia” (Zanichelli 2022). Dr. Maga is active in science popularization through mass media (newspapers, magazines, radio and TV broadcasts) and often gives lectures in secondary schools about virology and biotechnology.

Pavia, 30/06/2023

Dr. Giovanni Maga

A handwritten signature in black ink, appearing to read 'G. Maga', with a stylized, cursive script.