

Curriculum Vitae of Dr. Giovanni Maga

Citizenship: Italian. Born May/30/1965 in Pavia (Italy); Married.

Working address:

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Scientific Interests:

Dr. Giovanni Maga has been working since his graduation on the enzymology of genome duplication and repair. 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 as well as in protozoa parasites. He is also interested in the biochemical pathways involved in coupling the DNA replication and repair machineries to cell cycle regulation in normal vs. tumoral human cells. 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.

Presently he is head of the DNA Enzymology and Molecular Virology Unit at the IGM-CNR, Pavia. His main lines of research are:

-Enzymology of genome replication and repair in eukaryotic cells and viruses

-Novel targets and drugs for antiviral and anticancer chemotherapy

Dr. Giovanni Maga is also responsible of a technological platform for the identification and characterization of targets and inhibitors for anticancer and antiviral therapy, which can offer support for all the initial steps of drug discovery, from target identification, cloning and expression, functional tests implementation, screening of small molecules and mechanism of action and cytotoxicity determination.

Curriculum:

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| Degree in Biological Sciences at the University of Pavia | 1985-1989 |
| Master in Genetics at the University of Pavia | 1990 |
| PhD degree in Applied Genetics at the University of Pavia | 1991-1993 |
| 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 |
| Permanent Researcher at the Institute of Molecular Genetics-CNR, Pavia | since Dec. 2001 |
| First Researcher at the Institute of Molecular Genetics-CNR, Pavia | Dec. 2005 - Oct. 2018 |
| Research Director at the Institute of Molecular Genetics-CNR, Pavia | Oct. 2018 - April 2019 |
| Director of the Institute of Molecular Genetics-CNR, Pavia | since May 2019 |
| Head of the DNA Enzymology & Molecular Virology Section | since June 2006 |
| Contract Professor of Molecular Biology, University of Pavia | since Sept. 2011 |

Editorial/Academic boards activities:

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| Academic Editor PLoS ONE (2011-present) | |
| Guest Editor of Current Drug Metabolism | (ISSN 1389-2002) |
| Guest Editor of Current Pharmaceutical Biotechnology | (ISSN: 1389-2010) |
| Editorial Advisor of The Biochemical Journal - London (2005-present) | (ISSN 0264-6021) |
| Former Editorial Board Member of the Journal of Biological Chemistry (2010-2015) | (ISSN 0021-9258) |

Member of The Biochemical Society (London) (2005-2016)
Member of the American Society for Biochemistry and Molecular Biology (2010-2015)
Member of the International AIDS Society (2016 - 2018)
Member of the Italian Association of Biophysics and Molecular Biology (2010-present)

Dr. Maga is a reviewer for international journals such as Nature, Nature Comm., Nucleic Acids Research, Journal of Medicinal Chemistry, The Biochemical Journal, etc. He is also member of the grant reviewing panels of the Italian Ministry of Research, the Belgium National Research Foundation, the Poland National Science Center and acted as grant evaluator for the Wellcome Trust Fund and the Institute Pasteur.

Funding

Dr Maga has been Partner (Research Unit head) in the following European Projects:

1. STREP FP6 EXCELLENT-HIT: Exploiting Cellular Export of Nuclear Transcripts as HIV Innovative Therapy. Contract LSHP-CT-2006-037257. Duration 24 months. Amount granted: € 138 316. Validity: 2007-2008.
2. IP FP6 TRIOH: Targeting Replication and Integration of HIV. Contract LSHB-CT-2003-503480. Duration 36 months. Amount granted € 354250. Validity: 2004-2006.
3. IP FP5: REPBIOTECH: DNA replication and biotechnological applications. Contract QLK3-CT-2002-02071. Duration 36 months. Amount granted: € 236570. Validity: 2003-2005.

In addition, Dr. Maga has been/is holder of the following national grants:

As Principal Investigator:

1. Coordinator Project PRIN " Exploiting synergy in molecular targeted anticancer chemotherapy". Contract: 2017SA5837. Duration: 36 mesi. Project total budget: €774560. Amount granted to the Unit: €184488. Validity: 2019-2022.
2. AIRC "RNA processing meets DNA stability: RNsseH2, helicase DDX3X, DNA polymerases beta, lambda and eta responding to genotoxic stress". Contract IG20762. Duration: 72 months. Amount granted €530 000. Validity: 2018-2022.
3. AIRC " RNA-in-DNA: specialized DNA polymerases in the establishment and (in)stabilit of a hybrid genome ". Contract IG15868. Duration 36 months. Amount granted € 300 000. Validity: 2015 - 2017.
4. AIRC "Role of specialized DNA polymerases in promoting survival of tumor cells". Contract IG12084. Duration 36 months. Amount granted € 220 000. Validity: 2012 - 2014.
5. AIRC " Specialized DNA polymerases in post-replicative repair of oxidative DNA damage in normal and tumor cells " Contract IG4538. Duration 36 months. Amount granted €150 000 Validity: 2008 - 2010
6. ISS- Programma Nazionale AIDS "Targeting the HIV-1 cellular cofactor human DEAD-box helicase DDX3 to stop the viral infection and overcome drug resistance" Contract 40H.26. Duration 24 months. Amount granted € 60 000. Validity: 2006 - 2007
7. ISS- Programma Nazionale AIDS "Functional role of the HIV-1 protein Vif in the retrotranscription process". Contract 40G.36 Duration 12 months. Amount granted € 20 000. Validity: 2007

As head of a Research Unit (partner):

1. Progetto CARIPOLO - RICERCA BIOMEDICA 2011 "Basi molecolari delle sindromi respiratorie gravi da influenza virus di tipo A (pandemico e stagionale): studio dell'evoluzione virale ed identificazione di marcatori genetici prognostici". Duration 36 months. Amount granted € 127 000. Validity: 2012 - 2014
2. Progetto PRIN2010W2KM5L_007 "*Bloccare la replicazione di HIV-1 attraverso un approccio rivolto verso diversi bersagli molecolari*". Duration 36 months. Amount granted € 101.000. Validity: 2013 - 2015
3. Progetto PRIN2007N7KYCY_004 "*Sviluppo e caratterizzazione di nuovi inibitori di tirosine chinasi cellulari con attività antiproliferativa e antiangiogenica nei confronti di differenti tumori*". Duration 24 months. Amount granted € 57 145. Validity: 2009 - 2010

Meetings Organization

Scientific and Organizing Committee member and Chairman of the international meeting "Evolving DNA polymerases: Chemistry meets Biology", 9-4 May 2010, Ascona, Switzerland.

Scientific and Organizing Committee member and Chairman of the national meeting "'R3, Replication, Recombination, Repair", 30 Jun - 2 Jul 2010, San Miniato (PI), Italy.

Principal Organizer and Scientific Committee member and Chairman of the international meeting "TRIoH General Assembly Meeting", 30 Nov - 2 Dec Pavia, Italy.

Principal Organizer and Scientific Committee member and Chairman of the international meeting "REPBIOTECH - 3rd Progress Report Meeting", 23-24 April 2004, Pavia, Italy.

Tutoring

Since 1998, Dr. Maga has been the supervisor of 50 experimental thesis for the appointment of the Bach. Sci. (Laurea Triennale) or Master Degree (Laurea Specialistica) and of 12 PhD thesis.

Publications

Since 1990, Dr. Maga is author/co-author of **242** publications in international peer-reviewed journals, which obtained **10616** citations and a H-index of **53** (Google Scholar).