

Curriculum vitae

PERSONAL INFORMATION

Armando Magrelli







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PERSONAL STATEMENT

Senior Researcher on Molecular Biology and Bioinformatic, Rare diseases, Rna Biology,

WORK EXPERIENCE

01/03/2013-Present

Member of Scientific Advice Working Party

European Medicines Agency, London (United Kingdom)

The Scientific Advice Working Party (SAWP) is a standing working party with the sole remit of providing scientific advice and protocol assistance. It was established by the Committee for Medicinal Products for Human Use (CHMP).

For human medicines, scientific advice and protocol assistance are given by the Committee for Medicinal Products for Human Use (CHMP) on the recommendation of the Scientific Advice Working Party (SAWP).

The SAWP coordinates the provision of scientific advice and protocol assistance. It brings an integrated view forward to the CHMP and the COMP on:

- quality relating to the development of medicinal products;
- non-clinical and clinical safety and efficacy relating to the development of medicinal products;
- the significant benefit of orphan medicinal products.

01/05/2012

Member of Committee Orphan Medicinal Products

European Medicines Agency

7 Westferry Circus Canary Wharf, E14 4HB London (England)

Examine application for the designation of a medicinal product as an orphan medicinal product which is submitted to it in accordance with the Regulation.

The following represent the priority tasks of the Committee:

Designation Protocol Assistance Marketing Authorisation (Review of Criteria for Maintenance of Orphan Status i.e. prevalence, seriousness, significant benefit when applicable).

Business or sector Regulatory Affairs

01/07/2008

Researcher

Istituto Superiore di Sanità

viale Regina Elena 299, 00161 Rome (Italy)

Studying the role of microRNA in rare diseases; Rare diseases Epidemiology;

Hepatoblastoma; Multiple Exostosis; Hailey-Hailey; Rare Diseases and Oxidative stress; Bioinformatics;

Business or sector Public Health

01/01/2006-30/06/2008

Senior consultant in bioinformatics

Rome Oncogenomic Center -Istituti Fisioterapici Ospitalieri Centro Ricerca Sperimentale Istituto Regina Elena Rome

Via Elio Chianesi 53, 00100 Rome (Italy)

Linking transcriptome to protome: functional oncogenomics for diagnosis and treatment of human

cancers. Develop new bioinformatic approaches in microRNAs predictions and data analysis; we developed a software freely available to the scientific community

(http://www.macinolab.org/Genemir.htm), able to merge different sources on

microRNAs. We also applied this tool in our experimental approaches on CLL

and other pathologies (hepatoblastomas etc..).

Business or sector Research Institution

01/01/2005-01/01/2006

Senior Consultant in BioInformatics and Data Analysis

University of Rome La Sapienza

viale Regina Elena 324, 00161 Rome (Italy)

New Bioinformatic approach to study microRnas, and their targets; System Biology of high throughput data from microRna:

Business or sector Research

01/04/2004-31/12/2007

Computer systems analyst

Con Soluzioni Con Srl

Via Boezio 92, 00100 Rome (Italy)

Main activities were on -System

Administration on Windows, Macintosh and Unix environment. -Internet

environment. -HTML Web Browser scripts. -LAN and WiFi networks planning and

management. -Web design and web publishing. -Web Administration.-Sql Server management. -Microsoft Transact Sql 2003. -Visual Basic. -Microsoft Visual Studio Net. -Software Packages for Web publishing and editing (Macromedia, PHP, Java).-Perl, BioPerl, Perl DBI.

Business or sector Information and communication

01/04/1999-01/04/2004

Researcher

National Council of Research

Via Ramarini 32, 00015 Monterotondo (Italy)

The creation of an animal model, able to show the existence of the "RNA Interference" phenomena in higher

organisms: in other words the presence of a post-transcriptional mechanism that can

abolish gene expression of every mRNA, leaving intact the genome it derives from

.Such project has been carried on in collaboration with Prof. Klaus Rajewsky,

Head of EMBL Mouse Program, obtaining two transgenic mouse lines to be used as an experimental model. -The study of "High Throughput Screening" techniques and setup of a specific lab for "genome wide analysis". To this purpose I attended an

International post lauream course held by EMBL at Heidelberg (Germany), focused on microarrays and high throughput screening techniques. -The in vivo and in vitro characterization of a gene involved in the Juvenile Parkinson, with the relative production of a specific animal model for the study of this pathology

Business or sector Research

01/06/1996-31/03/1999

Senior Researcher

Idi Farmaceutici Spa

Via dei Castelli Romani, 83/85, 00040 Pomezia (Italy)

I have been put in charge of the setup and startup

of the Molecular Biology Lab. Then, since the experimental model used in the Lab wasmade of

primary cultures of human keratinocytes able to produce functional skin, one

of the main issues, and the focus of my work, was the identification of molecular



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markers for epidermal stem cells, with the aim to make more effective the in vitro cell culture, for a subsequent transplant on patients with different pathologies such as bad burnt. Furthermore, as human keratinocytes represent a perfect target for ex-vivo gene therapy, I was involved in a project on the gene transduction in cells derived from patient suffering for epidermolisis bollosa.

Business or sector Pharmaceutical Research on Dermatology

01/10/1993-01/06/1996

Post Doc Scientist

Max-Planck-Institute for Plant Breeding Research Carl-von-Linné-Weg 10, 50829 Cologne (Germany)

Involved in a research project on generation of plants with dwarf phenotype following the infection with Agrobacterium rhizogenes. I achieved knowledge about plants genetic and molecular biology applied to transgenesis and chimerism. In the same period I took the chance to specialize, working at the local Data Elaboration Office, on the management and maintenance of UNIX based networks

Business or sector Research on Plant

21/10/1992-01/10/1993

Professional Consultant

University of Rome La sapienza

Viale Regina Elena 324, 00161 Roma (Italy)

Involved in the National Research Program on Advanced Biotechnologies.

Regarding signal trasduction of blue light in fungi.

Business or sector Research on molecular Biology

EDUCATION AND TRAINING

23/02/2010-23/02/2010

Invited Speaker

Istituto Superiore di Sanità

Viale Regina Elena 299, 00161 Roma (Italy)

International Congress RARE DISEASES AND ORPHAN DRUGS

09/10/2009-09/10/2009

Participant

Istituto Superiore di Sanità

Viale Regina Elena 299, 00161 Rome (Italy)

Congresso Network Italiano Promozione Acido Folico per la Prevenzione Primaria di Difetti Congeniti

23/02/2009-25/02/2009

Participant

Istituto Superiore di Sanità

Viale Regina Elena 299, 00161 Rome (Italy)

5th International Conference on Rare Diseases and Orphan Drugs

23/07/2008-25/11/2008

Participant

Società Italiana di Genetica Umana

Largo Francesco Vito 1,, 00168 Rome (Italy)

XI Congresso Nazionale Società di Genetica Umana 2008 "microRNA and rare tumors: the

hepatoblastoma"

29/10/2008-31/10/2008

Participant

Istituto Superiore di Sanità

Seuropass

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Viale Regina Elena 299, 00161 Rome (Italy)

Workshop. Projects on rare diseases funded within the bilateral agreement Italy and USA on joint

research and development of public health actions

Istituto Superiore di Sanità

Viale Regina Elena 299, 00161 Rome (Italy)

International Meeting Needs and Challenges in Translational Medicine:

filling the gap between basic research and clinical applications

01/12/2005–01/07/2008 training in biotechnological Patents

Studio Ferrario

Via Collina 36, 00187 Rome (Italy) training in biotechnological Patents.

Analysis and draft of Italian patent in biotechnological application and their extension at european and

US level, technical analysis and responses to official patent office reviewers.

05/11/2006-12/11/2006 Bioinformatic Instructor

Rome Oncogenomic Center

Via delle Messi D'oro 156, 00158 Rome (Italy) Bioinformatic analysis of ChIP on chip data

17/10/2005–21/10/2005 Programming in Perl

CINECA

via Magnanelli 6/3, 40033 Casalecchio di Reno (Italy)

Perl For Biologist

New York University

100 Washington Square East, 10003-6688 New York (United States)

Bioinformatic training on microRna algorithms, and High Throughput data analysis. Center for

Genomics & Systems Biology NYU

> Centro Ricerca Sperimentale, Istituto Regina Elena Via delle messi d'oro 156, 00158 Rome (Italy)

Workshop Understanding cancer by high throughput biology Microarray e chip on chip

15/03/2004–30/04/2004 Certificate of attendance

Con Soluzioni Con Srl

Via Boezio 92, 00100 Rome (Italy) Programming in C language

09/02/2004-13/03/2004 Certificate of attendance

Con Soluzioni Con Srl

Via Boezio 92, 00100 Rome (Italy) Web publishing with Dreamweaver



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16/06/2003-21/06/2003

Certificate of attendance

Con Soluzioni Con Srl

Via Boezio 92, 00100 Rome (Italy) Data structure and algorithms

09/06/2003-14/06/2003

Certificate of attendance

Con Soluzioni Con Srl

Via Boezio 92, 00100 Rome (Italy) Theory of relational databases

01/04/2001-01/05/2001

Visiting Scientist

European Molecular Biology Laboratory Meyerhofstraße 1, 69117 Heidelberg (Germany)

Training on bioinformatics and High Throughput technique for molecular biologist.

29/11/2000-10/12/2000

Certificate of attendance

European Molecular Biology Laboratory Meyerhofstraße 1, 69117 Heidelberg (Germany) Genome Analysis by High Throughput Technique.

12/06/2000-12/06/2000

First Certificate in English

Certificate grade C

University of Cambridge

International examination for the First Certificate in English

12/04/1999-15/04/1999

Certificate of attendance

International Centre for Genetic Engineering and Biotechnology

Science Park Padriciano 99, 34149 Trieste (Italy)
Rna structure and Function-19 hours of lectures

01/12/1989–20/10/1992

Graduated M.Sc. in Biology

110/100 summa cum laude

University of Rome La Sapienza P.le Aldo Moro 5, 00185 Rome (Italy)

University course on Biology

PERSONAL SKILLS

Italian

Mother tongue(s)

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B1	B2	B1
A2	A1	A1	A1	A1
A1	A1	A1	A1	A1

English Spanish French

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Common European Framework of Reference for Languages



Job-related skills

Molecular Biology: DNA Purification Techniques, DNA Transformation/Library

Preparation, Southern/Northern Blotting, DNA Sequencing, PCR and related methods, RNA handling, Proteins handling.

Cellular Biology: Primary cell culture (human, plant, mouse); methods of detection and analysis. Routine Culturing of ES Cells, Isolation of primary mouse embryo fibroblasts, mitomycin C treatment of PMEFs, gamma irradiation of PMEF'S, PMEF feeder layer concentration, electroporation of ES cells and isolation of H/R clones, virus infection of fibroblasts, DNA transfection of eukaryotic cells. Immunology: Mono and Polyclonal Antibody, Immunocytochemistry, Immunofluorescence, Confocal Microscopy, Immunohistochemistry, Mouse and human analysis by FACS.

Mouse Biology: DNA Purification for Microinjection, Preparation of DNA from Tail

Biopsies, Robotic DNA Preparation, PCR Analysis of Tail DNA, Transgene Screening, Transgene Expression, Identification of Transgenic Founders, Southern Analysis, Transgenic Analysis.

Bio-informatics: Web Basics; Nucleotide Sequence Databases; Protein

Sequence Databases; Protein Classification Databases; Molecular

Structure Databases; Gene Function Databases: Enzymes, Interactions,

Expression and Pathways; Genomic Centers; Genomic Tools; Pattern and

Domain Databases; Genome and Database Resources, Microarray

Resources and Databases.

Digital competence

Macintosh and IBM OS. -Unix Environment. -Windows Small business

Server. -Microsoft exchange Server. -Microsoft Office package (Word, Excel,

Access, PowerPoint, FrontPage, Publisher, Visio). -LIMS for clinical chemistry

laboratory. -Specialized software for data acquisition, processing and post processing and microarray data analysis.

-Software for molecular biology (Databases, Sequence Analysis, Medline, etc.).

-Software for graphics (Photoshop, Adobe Illustrator, Canvas). -System

Administration on Windows, Macintosh and Unix environment. -Internet

environment. -HTML Web Browser scripts. -LAN and WiFi networks planning and management. -Web design and web publishing. -Web Administration.-Sql Server management. -Microsoft Transact Sql 2003. -Visual Basic. -Microsoft Visual Studio Net. -Software Packages for Web publishing and editing (Macromedia, PHP, Java).

Perl, BioPerl, Perl DBI.

Driving licence

A, B

ADDITIONAL INFORMATION

Publications on international peer reviewed journals

- 1) A.Magrelli, K.Langenkemper, K. Dehio, J.Schell and A. Spena. "Splicing of rol A transcript of Agrobacterium rhizogenes in Arabidopsis;" (1994) Science, 266, 1986-1988. IF 31.37
- 2) P. Ballario, P. Vittorioso, A. Magrelli, C. Talora, A. Cabibbo and G. Macino. "White collar-1, a central regulator of blue light responses in Neurospora, is a zinc finger protein." (1996) EMBO-Journal. 15(7), 1650-1657. IF 10.12
- 3) D. Marazziti, E. Golini, A. Magrelli, R. Matteoni and G.P. Tocchini-Valentini. "Genomic Analysis of GPR37 and Related Orphan G-Protein Coupled Receptor Genes Highly Expressed in the Mammalian Brain". (2001) Current Genomics, 2 (3), 253-260. IF 2.48
- 4) Daniela Marazziti, Elisabetta Golini, Silvia Mandillo, Armando Magrelli, Walter Witke, Rafaele Matteoni, and Glauco P. Tocchini-Valentini Altered dopamine signaling and MPTP resistance in mice lacking the Parkinson's disease-associated GPR37/parkin-associated endothelin-like receptor PNAS 2004 101: 10189-10194. IF 9.77



- 5) Fulci V, Chiaretti S, Goldoni M, Azzalin G, Carucci N, Tavolaro S, Castellano L, Magrelli A, Citarella F, Messina M, Maggio R, Peragine N, Santangelo S, Mauro FR, Landgraf P, Tuschl T, Weir DB, Chien M,Russo JJ, Ju J, SheridanR, SanderC, Zavolan M, Guarini A, Foa R, Macino G. Quantitative technologies establish a novel microRNA profile of chronic lymphocytic leukemia. Blood. 2007 Feb 27; IF 10.55
- 6) Armando Magrelli, Gianluca Azzalin, Marco Salvatore, Mara Viganotti, Fabrizio Tosto, Teresa Colombo, Rita Devito, Alessandra Di Masi, Antonio Antoccia, Stefano Lorenzetti, Francesca Maranghi, Alberto Mantovani, Caterina Tanzarella, Giuseppe Macino, Domenica Taruscio . Altered microRNA Expression Patterns in Hepatoblastoma Patients. Transl Oncol 2009 Aug 18;2(3):157-63. IF 3.39
- 7) Elisabetta Caprini, Cristina Cristofoletti, Diego Arcelli, Paolo Fadda, Mauro Helmer Citterich, Francesca Sampogna, Armando Magrelli, Federica Censi, Paola Torreri, Marina Frontani, Enrico Scala, Maria Cristina Picchio, Paola Temperani, Alessandro Monopoli, Giuseppe Alfonso Lombardo, Domenica Taruscio, Maria Grazia Narducci, Giandomenico Russo (2009) Identification of key regions and genes important in the pathogenesis of sezary syndrome by combining genomic and expression microarrays. Cancer Res. 2009 Nov 1;69(21):8438-46. Epub 2009 Oct 20. IF 8.23
- 8) Cialfi, Oliviero, Ceccarelli, Marchese, Barbieri, Biolcati, Uccelletti, Palleschi, Barboni, De Bernardo, Grammatico, Magrelli, Salvatore, Taruscio, Frati, Gulino, Screpanti, Talora Complex multipathways alterations and oxidative stress are associated with Hailey-Hailey disease. Br J Dermatol. 2010 Mar;162(3):518-26. Epub 2009 Nov 9 IF 4.35
- 9) Maria Grazia Di Certo, Nicoletta Corbi, Georgios Strimpakos, Annalisa Onori, Siro Luvisetto, Cinzia Severini, Angelo Guglielmotti, Enrico Maria Batassa, Cinzia Pisani, Aristide Floridi, Barbara Benassi, Maurizio Fanciulli, Armando Magrelli, Elisabetta Mattei, Claudio Passananti. The artificial gene Jazz, a transcriptional regulator of Utrophin, corrects the dystrophic pathology in mdx mice. Hum Mol Genet. 2010 Mar 1;19(5):752-60. Epub 2009 Dec 4 IF 8.05
- 10) Maranghi F, Lorenzetti S, Tassinari R, Moracci G, Tassinari V, Marcoccia D, Di Virgilio A, Eusepi A, Romeo A, Magrelli A, Salvatore M, Tosto F, Viganotti M, Antoccia A, Di Masi A, Azzalin G, Tanzarella C, Macino G, Taruscio D, Mantovani A. In utero exposure to di-(2-ethylhexyl) phthalate affects liver morphology and metabolism in post-natal CD-1 mice. Reprod Toxicol. 2010 Jul;29(4):427-32. Epub 2010 Mar 20. IF 3.13
- 11) Zuntini M, Salvatore M, Pedrini E, Parra A, Sgariglia F, Magrelli A, Taruscio D, Sangiorgi L. MicroRNA profiling of multiple osteochondromas: identification of disease-specific and normal cartilage signatures. Clin Genet. 2010 Jun 23. [Epub ahead of print] IF 2.94
- 12). A. Di Masi, M. Viganotti, A. Antoccia, A. Magrelli, M. Salvatore, et al. Characterization of HuH6, Hep3B, HepG2 and HLE liver cancer cell lines by beta-catenin pathway, microRNA expression and protein expression profile. Cell Mol Biol, 2010 10:1299-317 IF 0.833
- 13) Salvatore M, Magrelli A, Taruscio D. The Role of microRNAs in the Biology of Rare Diseases. Int J Mol Sci. 2011;12(10):6733-42. Epub 2011 Oct 11. IF 0.94
- 14) Manca S, Magrelli A, Cialfi S, Lefort K, Ambra R, Alimandi M, Biolcati G, Uccelletti D, Palleschi C, Screpanti I, Candi E, Melino G, Salvatore M, Taruscio D, Talora C. Oxidative stress activation of miR-125b is part of the molecular switch for Hailey-Hailey disease manifestation. Exp Dermatol. 2011 Nov;20(11):932-7. Epub 2011 Sep 14. IF 4.15
- 15) Domenica Taruscio , Marco Salvatore , Armando Magrelli , Rosella Tomanin Predictive medicine and biomarkers: the case of rare diseasesPersonalized Medicine, March 2012, Vol. 9, No. 2, Pages 143-146. I.F. 0.9
- 16) D Taruscio, L Agresta, A Amato, G Bernardo, L Bernardo, F Braguti, et al.
- The Italian National Centre for Rare Diseases: where research and public health translate into action. Blood transfusion 12 (Suppl 3), s591-605
- 17) Valeria De Arcangelis, Georgios Strimpakos, Francesca Gabanella, Nicoletta Corbi, Siro Luvisetto, Armando Magrelli et al.Journal of cellular physiology, 2015 DOI: 10.1002/jcp.25075 I.F. 3.45