

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**

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**PERSONAL INFORMATION**

Name

**ROMANELLI, MARIA GRAZIA**

Address

**Laboratory of Applied Biology, Section of Biology and Genetics  
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Nationality

Italian

Date of birth

21, 10, 1960

**PRESENT ACADEMIC TITLE AND  
POSITION**

**ASSOCIATE PROFESSOR OF APPLIED BIOLOGY (BIO13)  
UNIVERSITY OF VERONA**

**EDUCATION BACKGROUND**

1985

**MAGISTRAL DOCTORAL DEGREE IN BIOLOGICAL SCIENCES  
UNIVERSITY OF FERRARA**

1986

**PROFESSIONAL BIOLOGIST QUALIFICATION**

**ACADEMIC AND SCIENTIFIC  
EXPERIENCE**

**May 1985 - October 1987**

**Postgraduate Research fellow**

Institute of Biological Science, University of Verona, Italy

**November 1987**

**Research Associate**

Institute of Biological Science, University of Verona, Italy

**September 1988- September 1990**

**Visiting Research**

Dep. Molecular Genetics and Cellular Biology, Viral Oncology Laboratories, directed by Dr. Bernard Roizman, University of Chicago, USA

**September 1990**

**Permanent Research Associate**

Institute of Biological Science, University of Verona, Italy

**December 1991-January 1992**

**Visiting Associate**

Dep. Molecular Genetics and Cellular Biology, Viral Oncology Laboratories, University of Chicago, USA.

**October 1996**

**Visiting Associate**

Howard Hughes Medical Institute Research Laboratories directed by Dr Gideon Dreyfuss

University of Pennsylvania, USA

January 2011

**Associate Professor of Applied Biology**

Department of Life and Reproduction Science University of Verona, Italy

Jun-July 2016

**Honorary fellow**

Department of Genetics, University of Leicester, UK.

## RESEARCH INTERESTS

**Virology: PRV, HSV, HTLV, HIV**

**Human gene expression regulation.**

### Actual research interests:

- a) **Virus – host interaction, focused on human T-cell lymphotropic virus type 1 and 2 (HTLV-1 and HTLV-2) expressed proteins and their interaction with host factor**
- b) **Post-transcriptional gene expression regulation, focused on alternative splicing regulation mediated by ribonucleoproteins**

## ACADEMIC TEACHING

University of Verona

Professor of Applied Biology and Genetics at School of Medicine, School of Dentistry and Degree courses in health, prevention and rehabilitation,  
Professor of Biology Degree Movement Sciences and Sport

Teacher at Doctoral Program (Ph.D) in Applied Life and Health Sciences

Further details: <http://www.dsnm.univr.it/?ent=persona&id=1117->

## AWARDS AND FUNDING

Awards grants:

- 1991: Italia-USA programs : grant for research activity at the Dep. Molecular Genetics and Cellular Biology, Viral Oncology Laboratories, University of Chicago, USA
- 1995 "Short-term fellowship" CNR program: grant for research activity at the Howard Hughes Medical Institute Research Laboratories, Philadelphia.
- 2015 CooperInt

Research Grants as principal Investigator

- 1995: CNR grants finalized to research in biology and medicine.
- 2001: Grant Consorzio interuniversitario: "Gene epression regulation".
- 2001 Grant IZO "Virus Aujeszky"
- 2011: Programma Operativo F.S.E. Obiettivo Competitività Regionale e Occupazione
- 2012 Joint Project Cancer Biomarkers induced by the HTLV Tax oncoprotein ;
- 2013 Unit P.I. AIRC –Cariverona n. 6599 "Virus -induced lymphoid neoplasms"
- MIUR ex 60%-FUR 1994-2016

Research Grants as research group member:

- 1997 PRIN "Studio di proteine associate all'RNA eterogeneo nucleare"
- 1999 Finanziamento Istituto Superiore Sanità progetto: Influenza della coinfezione da HTLV-II sulla progressione della malattia da HIV-1.
- 2003 PRIN progetto: Studio dei fattori con azione regolatoria sui processi proliferativi ed apoptotici indotti da HTLV nei precursori ematopoietici CD34+ .
- FIRB 2003 Finanziamento: "Malattie complesse".
- 2005 PRIN Studio dell'infezione e delle strategie terapeutiche legate al virus T- linfotropico umano di tipo II (HTLV-II) in coorti italiane e dell'azione trasformante della proteina Tax di HTLV-II
- 2005 Fondazione Cariverona Studio dell'influenza dei retrovirus oncogeni umani "Human T-cell Leukemia Virus" (HTLV) sui processi patogenetici indotti in cellule ematopoietiche e del ruolo del citomegalovirus umano (CMV) sull'insorgenza di adenocarcinomi.
- 2007 PRIN Studio dei processi patogenetici indotti in cellule umane dalla oncoproteina

Tax dei retrovirus leucemogeni umani HTLV-1 e HTLV-2

- 2008 Fondazione Cariverona Studio dell'azione proinfiammatoria delle proteine Tax dei retrovirus linfotropici umani HTLV 2009 Fondazione Cariverona: "Malattie cardiovascolari".
- 2015: "HTLV-1 and HTLV-2 Tax proteins interaction with IKK complexes. Workshop on tumor viruses" Padova 24 September 24
- 2013: "HTLV-1 and HTLV-2 Tax interactions with host factors and their effects on cellular pathways activation" University of Padua, PhD seminars.
- Oncogenic Viruses and Neoplastic Diseases, Napoli 18 October 2013. "HTLV 1 and HTLV -2 Tax interactions with IKK factors and their effect on cellular pathways activation".
- HTLV European Research Network, Dundee, Scotland, 26 May 2012. "Tax-1 interacts with IKKepsilon and modulates IRF-3 dependent promoter activity in transfected cells."
- HTLV European Research Network Verona 2006 "The Tax Protein of HTLV-II Binds to the RelA/P65 Subunit of NF-kB Through Interaction with its Amino-Terminal Region".

## INVITED LECTURESHIPS AND ORAL COMMUNICATIONS TO CONFERENCES

## MEMBERSHIP OF PROFESSIONAL SOCIETIES

Fellow of :  
Associazione Italiana Biologia e Genetica  
Associazione genetica italiana  
RNA society

## POSITIONS OF RESPONSIBILITY

School of Medicine Erasmus Referring

- Member of the Board of Directors of the University of Verona, the Governing Council of the Faculty of Medicine and Surgery, the Finance Committee of the Faculty of Medicine, internal Commission of the Faculty of Medicine and Surgery
- Member of the Board of the Department of Neurosciences, Biomedicine and Movement Sciences
- Member of the College of PhD in Life and Health Applied Sciences
- Proposer and coordinator of the doctorate in Life and Health Applied Sciences
- SUA-CdS referring
- Component of the teaching commission of the Degree course in Nursing, Sport Science.
- University Coordinator of the teaching committee at its headquarters in Vicenza for the Degree Course in Nursing

MGR is co-author of more than 60 peer-reviewed publications with Impact factors in the area of molecular genetics, retrovirology, viruses, cell biology, molecular biology and biochemistry.

Recent publications (last five years)

1. Bergamo E, Diani E, Bertazzoni U, Romanelli MG. A Luciferase Functional Quantitative Assay for Measuring NF-κB Promoter Transactivation Mediated by HTLV-1 and HTLV-2 Tax Proteins. *Methods Mol Biol.* 2017;1582:79-87. doi: 10.1007/978-1-4939-6872-5\_6.
2. Lombardo G, D'Agostino A, Trevisiol L, Romanelli MG, Mascellaro A, Gomez-Lira M, Pardo A, Favero V, Nocini PF. Clinical, microbiologic and radiologic assessment of soft and hard tissues surrounding zygomatic implants: a retrospective study. *Oral Surg Oral Med Oral Pathol Oral Radiol.* 2016 Nov;122(5):537-546. doi: 10.1016/j.oooo.2016.06.011. Epub 2016 Jun 29
3. Serena M, Parolini F, Biswas P, Sironi F, Blanco Miranda A, Zoratti E, Scupoli MT, Ziglio S, Valenzuela-Fernandez A, Gibellini D, **Romanelli MG**, Siccardi A, Malnati M, Beretta A, Zipeto D. HIV-1 Env associates with HLA-C free-chains at the cell membrane modulating viral infectivity. *Sci Rep.* 2017 Jan 4;7:40037. doi: 10.1038/srep40037.
4. Cavallini C, Visco C, Putta S, Rossi D, Mimiola E, Purvis N, Lovato O, Perbellini O, Falisi E, Facco M, Trentin L, **Romanelli MG**, Semenzato G, Ambrosetti A, Gaidano G, Pizzolo G, Cesano A, Scupoli MT. Integration of B-cell receptor-induced ERK1/2 phosphorylation and mutations of SF3B1 gene refines prognosis in treatment naive chronic lymphocytic leukemia. *Haematologica.* 2016 Dec 7. pii: haematol.2016.154450. DOI: 10.3324/haematol.2016.154450

5. Serena M, Giorgetti A, Busato M, Gasparini F, Diani E, **Romanelli MG**, Zipeto D. Molecular characterization of HIV-1 Nef and ACOT8 interaction: insights from in silico structural predictions and in vitro functional assays. *Sci Rep*. 2016 Mar 1;6:22319. doi: 10.1038/srep22319.
6. Ferronato S, Gelati M, Scuro A, Olivato S, Malerba G, **Romanelli MG**, Gomez-Lira M, Setacci C. HDAC9, TWIST1 and FERD3L gene expression in asymptomatic stable and unstable carotid plaques. *Inflamm Res*. 2016 Apr;65(4):261-3. doi: 10.1007/s00011-015-0904-z. Epub 2015 Nov 30.
7. Gomez-Lira M, Ferronato S, Orlandi E, Dal Molin A, Malerba G, Frigerio S, Rodolfo M, **Romanelli MG** Association of microRNA 146a polymorphism rs2910164 and the risk of melanoma in an Italian population. *Exp Dermatol*. 2015 Oct;24(10):794-5. doi: 10.1111/exd.12778.
8. Diani E, Avesani F, Bergamo E, Cremonese G, Bertazzoni U, **Romanelli MG**. HTLV-1 Tax protein recruitment into IKK $\epsilon$  and TBK1 kinase complexes enhances IFN-I expression. *Virology*. 2015 Feb;476:92-9. doi: 10.1016/j.virol.2014.12.005.
9. Pilotti E, Bianchi MV, De Maria A, Bozzano F, **Romanelli MG**, Bertazzoni U, Casoli C. HTLV-1/-2 and HIV-1 co-infections: retroviral interference on host immune status. *Front Microbiol*. 2013 Dec 23;4:372 doi: 10.3389/fmicb.2013.00372.
10. **Romanelli MG**, Diani E, Lievens PM. New insights into functional roles of the polypyrimidine tract-binding protein. *Int J Mol Sci*. 2013 Nov 20;14(11):22906-32 doi: 10.3390/ijms141122906.  
Ferronato S, Gomez-Lira M, Menegazzi M, Diani E, Olivato S, Sartori M, Scuro A, Malerba G, Pignatti PF, **Romanelli MG**, Mazzucco S. Polymorphism -2604G>A variants in TLR4 promoter are associated with different gene expression level in peripheral blood of atherosclerotic patients. *J Hum Genet*. 2013 Dec;58(12):812-4. doi: 10.1038/jhg.2013.98.
11. **Romanelli MG**, Diani E, Bergamo E, Casoli C, Ciminale V, Bex F, Bertazzoni U. Highlights on distinctive structural and functional properties of HTLV Tax proteins. *Front Microbiol*. 2013 Sep 9;4:271. doi: 10.3389/fmicb.2013.00271.
12. Cavallari I, Rende F, Bender C, **Romanelli MG**, D'Agostino DM, Ciminale V. Fine tuning of the temporal expression of HTLV-1 and HTLV-2. *Front Microbiol*. 2013 Sep 2;4:235. doi: 10.3389/fmicb.2013.00235
13. Filippello A, Lorenzi P, Bergamo E, **Romanelli MG** Identification of nuclear retention domains in the RBM20 protein. *FEBS Lett*. 2013 Sep 17;587(18):2989-95. doi: 10.1016/j.febslet.2013.07.018.
14. Turci M, Lodewick J, Di Gennaro G, Rinaldi AS, Marin O, Diani E, Sampaio C, Bex F, Bertazzoni U, **Romanelli MG**. Ubiquitination and sumoylation of the HTLV-2 Tax-2B protein regulate its NF- $\kappa$ B activity: a comparative study with the HTLV-1 Tax-1 protein. *Retrovirology*. 2012 Dec 7;9:102. doi: 10.1186/1742-4690-9-102.
15. Rende F, Cavallari I, **Romanelli MG**, Diani E, Bertazzoni U, Ciminale V Comparison of the Genetic Organization, Expression Strategies and Oncogenic Potential of HTLV-1 and HTLV-2. *Leuk Res Treatment*. 2012;2012:876153. doi: 10.1155/2012/876153
16. Park E, Gong EY, **Romanelli MG**, Lee K. Suppression of estrogen receptor-alpha transactivation by thyroid transcription factor-2 in breast cancer cells. *Biochem Biophys Res Commun*. 2012 May 11;421(3):532-7. doi:10.1016/j.bbrc.2012.04.039.