Emanuela Balestrieri
Date of birth:
Address: Tor Vergata University of Rome, Department of Experimental Medicine
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Education
Degree in Biology Sciences, University of Rome “La Sapienza” (Ita nology, University of Messina (Italy), Specialization in Microbiology and Virology at the University of Rome Tor Vergata

Current positions
2019 Researcher (RtdB) at the Department of Experimental Medicine, University of Rome “Tor Vergata”,

Teaching and mentoring

2009 to date teaching role on course "Immune response to infection" in Degree Course in Therapy of the Neuro and Psychomotor Developmental, University of Rome "Tor Vergata".
2019 to date professor in the Course of “Applied Microbiology” for the Master degree of Science in Human Nutrition Science, University of Rome "Tor Vergata".
2019 professor in the Course of Microbiology for the Degree Course in Medicine, Catholic University “Nostra Signora del Buon Consiglio”, Albania
2019 to date professor in the Course of “Microbiology and Clinical Microbiology” for the Degree Course in in Nursering, branch IRCCS Santa Lucia, University of Rome “Tor Vergata”
2019 is part of the Academic Board of the PhD course in "Microbiology, Immunology, Infectious diseases, organ transplants and related diseases" of the University of Rome "Tor Vergata".
Since 2004 she supervised undergraduate and PhD students

Memberships of scientific societies
2002 to date, member of the Italian Society of Microbiology (SIM).
2004 to date, member of the Italian Society of Medical Virology (SIVIM).

Scientific research activity
Since 1998 she contributed to several research lines including studies of the mechanisms involved in pathogenesis, in apoptosis and in the treatment of viral infections and on antiretroviral activity of nucleoside reverse transcriptase inhibitors on HTLV-1 transmission. Current research is mainly focused on the endogenous retrovirus (HERV) activity in the crosstalk with the innate immune response in the pathogenesis neurodevelopmental diseases and on the role of HERV in cancer. Recently, she was involved in a project for the evaluation of inflammatory cytokines in correlation with of immunephenotype alterations in COVID19 patients.
Since 1999 she participated in several projects, including
- Fellowship Program, Gilead Science, title “HIV reservoir and transcriptional activity of endogenous retroviruses and their correlation with the viro-immunological and clinical response in virologically suppressed patients” PI Claudia Matteucci (2019 to date)
- Fellowship Program, Gilead Science, title: "Preclinical studies on the role of human endogenous retroviruses as markers associated with genetic instability and with biological and clinical prognostic factors in chronic lymphatic leukemia" PI Maria Ilaria Del Principe (2017 to date).
- PRIN Project "OMICS Technologies and Systems Biology for the definition of new strategies aimed at the control of viral infections" (2013-2016) PI Carlo Federico Perno
- ITALIA/USA Project “Genomic and post-genomic era in psychiatric diseases: role of human endogenous retroviruses in autism spectrum disorder" (2010-2011) PI Massimo Ciccozzi
- Project Fondazione Roma “Intracellular protein-protein interactions regulating viral replication as targets for novel antiviral strategies” (2009-2012) PI Prof. Enrico Garaci
- PRIN Project “Biological and antiviral activity of new heterocyclic compounds” (2009) PI Alberto Brandi.

- PRIN Project “Modulation of tolerance in immunity, autoimmunity and transplantation” (2008-2010) PI Paola Sinibaldi Vallebona
- FIRB Project “New cancer therapies based on the use of innovative technologies” (2007-2010) PI Paola Sinibaldi Vallebona
- Oncological Research Project (Ministry of Health) "Innovative therapies of tumors resistant to conventional chemotherapeutic treatments and rare tumors" (2007-2010) PI Paola Sinibaldi Vallebona
- Oncological Research Project (Ministry of Health) " Promotion of clinical research in the field of cancer biological therapies and development of cellular vaccines based on the use of dendritic cells and new cancer antigens " (2007-2010) PI Paola Sinibaldi Vallebona
- Project funded by the Ministry of University and Research "Innovative active immunization and immunomodulation strategies for combined therapy protocols in tumors" (2007-2010) PI Paola Sinibaldi Vallebona
- RSA project "Study of the transcriptional activity of Thymosin alfa 1 for the development of new therapeutic approaches to infections". (2009-2010) PI Claudia Matteucci
- Oncological Research Project funded by Ministry of Health " Development of new anti-tumor therapies based on anti-retroviral HIV protease inhibitors and non-nucleoside reverse transcriptase inhibitors, alone or combined: in vitro and in vivo preclinical studies " (2004-2008) PI Paola Sinibaldi Vallebona
- National AIDS Research Program (ISS) Development of a cell-free method for the in vitro evaluation of the activity of nucleodisic and non-nucleosidic compounds with regard to HIV reverse transcriptase”. (2006) PI Beatrice Macchi
-PRIN project “Stereoselective synthesis and biological evaluation of compounds targeted to antiviral activity” (2005-2007) PI Giovanni Romeo.
- National AIDS Research Program (ISS). “Clinical research and therapy of HIV disease: The partial immunological response (immuno-virological discrepancy) to antiretroviral therapy: pathogenetic aspects and therapeutic strategies. Pilot study with Thymosin alpha-1 ". (2005) PI Antonio Mastino.

She authored of about 80 publications, including 48 research papers, meeting proceeding and reviews. Bibliographic parameters: H-index 20; citations 946 (Scopus)

Peer review activity

Reviewer for Frontiers in Genetics, Frontiers in Pediatrics, Frontiers in Microbiology, Expert Opinion of Molecular Diagnostic, Cell IJMS, PlosOne, Intervirology, Brain Research Bulletin, Brain Behaviour and Immunity, Research in Autism Spectrum.