

Curriculum vitae **Silvia Biocca**

Prof. Silvia Biocca, Associate Professor of Clinical Biochemistry
Dpt. Systems Medicine, University of Roma "Tor Vergata"
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Education, employment and research experience

1995-now Group leader of a cell biology research laboratory at the University of Roma "Tor Vergata"
2004-now Associate Professor of Clinical Biochemistry, University of Roma, School of Medicine.
1992-2003.1 Staff Scientist, University of "Tor Vergata"
1981-92 Staff Scientist, University "La Sapienza", Dpt. Biochemistry.
1980-87 Research Associate at the Institute of Neurobiology, CNR, Roma
1978-79 Research Associate, Washington University, St. Louis, Mo, USA.
1976-77 Research fellow at the Institute of Cell Biology, CNR, Roma.
1976 Assistant Professor in Applied Biochemistry, University of Roma.
1975 Degree in Biology with honours, University of Roma "La Sapienza".
1976

Selected grants awarded:

1998-2000 CEE Biotechnology grant (BIO CT 972285) "Intracellular Antibodies"
1999-2000 CEE Biotechnology grant (BIO4-98-0203) "A mouse model for regulatable, site specific integration and expression of introduced genes."
2001-2003 CEE Biotech. grant (QLRT-1999-30345) "Development of novel gene expression and genome modification strategies"
2002-2003 MURST Project from the Istituto Superiore della Sanità
2004-2006 FIRB Project "Neurodegenerative diseases as a consequence of altered processing of neuronal proteins: animal and cellular models."
2008-2010 PRIN "Role of LOX-1 gene and its isoforms"
2019-2021 PRIN "Development of a biotechnological nanoparticle platform for the delivery of antitumor therapies using Patient Derived-Organoid library of Breast Cancer"

Patents and honours:

1991 International Patent (ENEA-CNR) N° 91A000474 titled: "Plasmidic vectors for the expression of immunoglobulins in plants"
1997 Honoured with the "Steven Newburgh Prize" for Medicine.

Reviewer of the following scientific Foundations and Journals:

The Wellcome Trust (Grant Application) - Israel Science Foundation - United States-Israel Binational Science Foundation - National Science Center, Poland - National Research, Development and Innovation Strategy, Romania - FEBS Letter - Analytical Biochemistry - European Journal of Biochemistry - Biochimica and Biophysica Acta - The American Journal of Pathology - Science - EMBO J. - Biochem. J. - J. Biol. Chem. - Immunotherapy - Traffic - BMC Biology - PEDS - J. Neurochemistry - Cancer Immunology - Expert opinion - PlosOne - Therapeutic delivery - BBA-Proteins and Proteomics - Bioanalysis - NanoLIFE- Process Biochemistry- Scientific Report - Biochem. Biophysics Report - Faseb J - EMBO Molecular Medicine - Cellular & Molecular Biology Letters - Cardiovascular Research - Journal of Functional Foods - International Journal of Molecular Sciences - Journal of Molecular Modeling - Biomedical Spectroscopy and Imaging -

Silvia Biocca leads a group of a cell biology research laboratory in the Department of Systems Medicine. She has extensive experience in all aspects of cell biology, cellular biochemistry, immunotechnology. She was responsible of the first demonstration that recombinant antibodies can be expressed and targeted in intracellular compartments of mammalian cells, further contributing on the developing of the intrabody technology. In the last years SB scientific work has focussed on the molecular mechanisms of the ligand binding activity of the scavenger receptor LOX-1 in endothelial cells. More recently, she is involved in the use of DNA to build nanostructures of different size and shape to be used for biomedical applications.

Author of 84 publications, 61 on International peer-reviewed journals, 22 as first author, 28 as last name, 22 book chapters and Editor/Author of 1 Springer-Verlag book. H-index: 29.