

CURRICULUM VITAE DR. MARICA ARVIGO

Citizenship: Italian

Place and date of birthday: Genova, 1968, June the 16th

Professional Address: Department of Internal Medicine and Medical Specialties,
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Position: Researcher at the Department of Internal Medicine and Medical Specialities (DIMI) and Center of Excellence for Biomedical Research (CEBR), University of Genova, Italy.

Title of qualification awarded:

- ✓ *Biological degree:* University of Genova, March 1993, 106/110;
- ✓ *PhD:* University of Genova, Endocrinology (1998)

Research fellowship:

- ✓ Post-doc fellowship, DIMI, University of Genova (1998-1999);
- ✓ "Study of IGF system in children with short stature" Department of Pediatric Science, University of Pavia, (2002-2003);
- ✓ "Evaluation of IGF-I plasmatic concentration in rhGH-treated GHD patients", Eli Lilly S.p.A. (2003);
- ✓ "Interrelation between growth factors, neuropeptides and their specific receptors on differentiation and proliferation of normal and neoplastic cell lines", DIMI, University of Genova (2003-2005);
- ✓ "Role of IGF-IGFBP system, somatostatin (SRIF) and specific somatostatin receptor analogues (SSTR1-5) in cell lines and primary cell cultures", DIMI, University of Genova (2005-2007);
- ✓ "Somatostatin (SS) and dopamine (DA) receptors: effect of SS analogues (SSA) and of SS/DA chimeric compounds on receptor dimerization in prostate and lung cancer", DIMI, University of Genova (2008-2009);
- ✓ "Study of the somatostatin system (somatostatin receptors and analogues) on Gastrin Releasing Peptide and its receptors expression in gastro-intestinal tumors (GIST) and in small cell lung cancer (SCLC), DIMI, University of Genova (2008-2009);
- ✓ "Physiopathology of somatostatin receptors in pituitary tumors and new therapeutic prospects", DIMI, University of Genova (2009-2010);
- ✓ "Study of somatostatin and dopamin receptor expression in human prostate cancer tissue and cells: potential role of new bispecific analogs and chimeric molecules in the control of cell proliferation and differentiation", DIMI, University of Genova (2010-2011);
- ✓ "Treatment of neuroendocrine tumors with somatostatin and dopamine agonists, dopastatins, mTOR inhibitors and interferon: impact on the intracellular signal transduction pathways", DIMI, University of Genova (2011-2012);
- ✓ "Advanced technological platforms for the definition of new molecular targets and biomarkers in nanotechnological carriers for the diagnosis and therapy of human neoplasias", DIMI and Center of Excellence for Biomedical Research, University of Genova, (2012-2015).

Research Activity:

1992-1999: research activity, as fellow at the Laboratory of Endocrinology (DIMI, University of Genova), focused on the study of Insulin-Like Growth Factors (IGFs) and their Binding Proteins (IGFBPs) in different normal and neoplastic tissues acquiring experience in the following laboratory methods: chromatographic techniques (gel-filtration chromatography, ionic-exchange chromatography, affinity chromatography); electrophoretic techniques (western and northern blot); cell cultures for the evaluation of the mitogenic and differentiating effects of IGFs and IGFBPs; molecular biology techniques (DNA and RNA extraction, RT-PCR); immunometric techniques for hormone measurements (RIA, IRMA, ELISA); purification of subcellular fractions from tissues and cells; immunohistochemical and “in situ” hybridization techniques.

2000-2002: research activity, as fellow at the Laboratory of Immunology (DIMI, University of Genova), focused on the role of class I MHC molecules in the regulation of CD8+ and Natural Killer cells, acquiring experience in the cytofluorimetric technique.

2002-2009: research activity, as fellow at the Laboratory of Endocrinology (DIMI, University of Genova), focused on the interrelationship between the IGF system, somatostatin (SRIF) and its five receptor subtypes and on the effect of new SRIF analogues (monospecific and bispecific SRIF analogues and SRIF/DA chimeric compounds) on cell proliferation and differentiation.

2009-2012: research activity at the Laboratory of Endocrinology (DIMI, University of Genova), focused on the study of somatostatin receptor pathophysiology and interaction in neuroendocrine tumours (NETs) and in non-neuroendocrine neoplasias such as prostate and lung cancer.

2013-to date: teaching activity (Endocrinology at Medical and Pharmaceutical Biotechnology Course, Faculty of Medicine) and research activity as chief of the Laboratory of Endocrinology (DIMI, University of Genova).

Articles in quoted journals: n. 39; h-index 16 (Scopus)

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Genova, July 14th, 2015

Dr. Marica Arvigo