

LEMBO GIUSEPPE

Professore Ordinario

Settore scientifico disciplinare di riferimento (MED/50)

Ateneo

Università degli Studi di ROMA "La Sapienza"

Struttura di afferenza

Dipartimento di MEDICINA MOLECOLARE

Recapiti

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Curriculum

Brief curriculum vitae of prof. Giuseppe Lembo

EDUCATION

1992 PhD in Cardiovascular Physiopathology, "Sapienza" University of Rome.

1987 Specialization in Cardiovascular System Diseases, final mark 70/70 cum laude, "Federico II" University of Naples.

1984 Degree in Medicine and Surgery, "Federico II" University of Naples.

CURRENT POSITIONS

2010- Full professor of Applied Medical Technology at the Department of Molecular Medicine of "Sapienza" University of Rome.

2002- Associate Medical Director of II level of the UOC of Neurological Complications of Internal Diseases at IRCCS Neuromed, affiliated to "Sapienza" University of Rome – Molise Section.

1995- Coordinator of the Research Department of Angiocardioneurology and Translational Medicine - IRCCS Neuromed/Sapienza University of Rome

1995- PI of several phase II and III Clinical Trials in the field of cardiovascular diseases, sponsored by various pharmaceutical industries, i.a. Novartis, Sanofi-Aventis, Bayer, Merck Sharp & Dohme, Servier, etc.

PREVIOUS POSITIONS AND FELLOWSHIPS

2009-2010 Full professor of Applied Medical Technology at the Department of Experimental Medicine of "Sapienza" University of Rome.

2006-2009 Associate Professor of Applied Medical Technology at the Department of Experimental Medicine of "Sapienza" University of Rome.

2006-2009 Director of the Department of Rehabilitation and Specialized Medicine of IRCCS NEUROMED.

2001-2006 Associate Professor of Internal Medicine at the Department of Experimental Medicine and Pathology of "Sapienza" University of Rome.

2000 Eligibility to the role of University Professor of II category – scientific disciplinary sector of Internal Medicine (University of Sassari)

2000-2001 Head Physician of the Complex Operating Unit of Neurological Complications of Internistic Diseases at IRCCS NEUROMED.

1995-1999 MD assistant at the Department of Angiocardioneurology, IRCCS Neuromed.

1993-1994 Researcher at the laboratory of technologies applied to cardiovascular sciences directed by Prof. Kenneth R. Chien, Department of Medicine and Center for Molecular Genetics, University of California at San Diego.

1992-1993 Research activity at the laboratory of genetic technologies directed by Dr M. G. Persico, Istituto

Internazionale di Genetica e Biofisica”, CNR, Naples.

1990 National Fellowship of the Italian Society of Arterial Hypertension for research activity about arterial hypertension.

1986-1987 Research activity at the laboratory of pharmacology directed by Prof. Carlo Patrono, Dept. of Pharmacology, Cattolica University of Rome.

DIDACTIC AND INSTITUTIONAL RESPONSIBILITIES

2014- Faculty member, PhD in Translational Medicine, Faculty of Medicine, Unimol University

2008-2014 Dean of the “U” Degree Course in Nursing Sciences of “Sapienza” University of Rome.

2005-2009 Dean of the Degree Course in Nursing Sciences of “Sapienza” University of Rome, Molise Section

2003- Member of the PhD Board for the course of PhD in Pharmacological Sciences and Respiratory Physiopathology of the “Seconda Università degli Studi di Napoli”.

1995- Professor of several academic courses at the faculties of Nursing Sciences (learning centers of Pozzilli and Isernia), Biomedical Laboratory Technician, Physiotherapy, Biotechnologies of “Sapienza” University of Rome

1995-1998 Professor on contract of Cardiorespiratory Physiopathology in the Specialization School of Cardiology at the “Federico II” University of Naples

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

In my career, I have trained many young investigators who are now well established in many academic and research institutions. Examples are Carmine Vecchione, Guido Iaccarino, Giulio Selvetella, Carmine Morisco, Daniela Carnevale, etc.

MEMBERSHIPS OF NATIONAL AND INTERNATIONAL COMMISSIONS

2016- Member of the Novartis ACZ885 Advisory Board – “CANTOS” Trial

2011- Member of several Examination Boards in various Universities (i.a. “La Sapienza” University of Rome; “Seconda Università degli Studi” of Naples; Università degli Studi of Cagliari; Università degli Studi “Magna Græcia” of Catanzaro, etc.)

2010- Member of the National Commission for Health Research of the Italian Ministry of Health. Involved in the advisory scientific board of several Site Visits for the confirmation various Scientific Institutes for Research, Hospitalization and Health Care.

2011-2012 Member of the Team Work “Research and Development” – AIFA.

2007- Member of the Board of Consulting Editors of Cardiovascular Research

2003-2005 Member of the Editorial Board of Journal of Hypertension

MAJOR COLLABORATIONS

- Prof. David Harrison, University of Vanderbilt, Nashville, USA

Immune mechanisms in hypertension

- Prof. Andreas Habenicht, University of Munich, DE

Neuroimmune mechanisms in atherosclerosis

- Prof. Mara Brancaccio, University of Turin, Turin, Italy

Role of Melusin in cardiac remodeling

- Prof. Francesco Rossi and Prof. Libero Berrino, Second University of Naples – SUN, Naples, Italy

Role of Sirtuins in cardiovascular pathologies

- Prof. Giorgio Maria Bressan, University of Padua, Padua, Italy

Role of Emilin proteins in the regulation of tissue bioavailability of TGF β

- Prof. Emilio Hirsch, University of Turin, Turin, Italy

Role of PI3K γ in cardiovascular diseases

- Prof. Massimo Federici, Tor Vergata University, Rome, Italy

Role of tissue inhibitor of metalloproteinases in metabolic and immune aspects of cardiovascular diseases

- Prof. Berislav Zlokovic, Zilkha Neurogenetic Institute, University of California, LA, USA

Mechanisms of regulation of the neurovascular unit

RESEARCH ACTIVITY AND PUBLICATIONS

My research activity has led to more than 150 publications (Impact Factor=IF 2015 JCR Science Edition

Total Impact Factor: > 1900; Total citations: > 7500; h-index: 46) in major international peer-reviewed multidisciplinary journals or in the leading journals of the subject categories in which I am active (cardiac and cardiovascular systems; peripheral vascular diseases; cerebrovascular diseases).

FINANCED RESEARCH PROJECTS

2017 - PI of the Program of Scientific Research PRIN 2015 (MIUR) “Characterization of adaptive or maladaptive influences of innate immune system on cardiac hypertrophic remodeling in response to pressure overload.”

2014- PI of the Project PON03PE_00060_7 “Sviluppo preclinico di nuove terapie e di strategie innovative per la produzione di molecole ad azione farmacologica” within the 2007-2013 National Operating Program PON-Research and Competitiveness

2013- PI of the Research Program “Characterization of novel molecular targets in the human vascular wall”, granted by Regione Molise within the PSN 2006-2008.

2013-2016 PI and National Coordinator of the Project PRIN 2010-2011 “Novel interplays among molecular pathways favoring adaptive cardiac remodeling in cardiomyopathy of overload”, granted by MIUR.

2013-2015 PI of the Project “Cognitive dysfunction in carotid stenosis: determinants and therapeutical opportunities” University funding for scientific research – year 2013, “Sapienza” University of Rome.

2012-2015 Scientific Coordinator of the IRCCS Neuromed Operating Unit in the Project “MODelli in VIVO di Patologie umane - MOVIE”, within the Regional Operating Program POR Campania 2007/2013.

2012-2015 Scientific Coordinator of the IRCCS Neuromed Operating Unit in the Project “Biotecnologie integrate per terapie innovative e personalizzate di malattie oncologiche e cardiovascolari – OCKEY”, within the Regional Operating Program POR Campania 2007/2013.

2011-2015 PI of the Project PON01_01227 “SIRT-IN: development of Sirtuin modulators as a novel therapeutic approach in neurodegenerative, oncologic and cardiovascular pathologies” within the 2007-2013 National Operating Program PON-Research and Competitiveness

2011-2015 Head of Unit in the Project PON01_00829 “Innovative technologic platforms for tissue engineering” within the 2007-2013 National Operating Program PON-Research and Competitiveness

2011-2015 Operating Unit Responsible of the FIRB-MERIT Project “Approccio integrato clinico e sperimentale allo studio dell’invecchiamento cerebrale e delle malattie neurodegenerative: basi molecolari, epidemiologia genetica, neuroimaging multimodale e farmacogenetica.”, granted by the Italian Ministry of Education, University and Research (MIUR).

2011-2013 PI of the Project “Utilizzo della microscopia confocale per la caratterizzazione di molecole responsabili del legame fisiopatologico tra infiammazione ed ipertensione arteriosa.”, granted by “Sapienza” University of Rome within the grant for the acquisition of medium and large scientific equipments.

2011-2012 PI of the Project “Characterization of molecular mechanisms of cognitive decline ascribable to the Alzheimer disease in arterial hypertension” granted by the Italian Society of Arterial Hypertension (SIIA).

2010-2012 Operating Unit Responsible of the PRIN Project “Terapia genica con melusina in modelli animali di insufficienza cardiaca”, granted by MIUR.

2010-2012 PI of the Project “Imaging in vivo su piccoli animali per la caratterizzazione degli effetti di terapie cellulari”, granted by “Sapienza” University of Rome within the grant for the acquisition of medium and large scientific equipments.

2009-2012 PI of the Project “Type 2 diabetes mellitus: disease mechanisms and macrovascular complications” granted by Fondazione Roma.

2008-2011 Operating Unit Responsible of the Finalized Project “Novel combined molecular and stem cell therapeutical approach to treat heart failure” granted by Italian Ministry of Health.

2008-2011 Responsible of the Finalized Project “Development of tissue-engineered blood vessel for patients candidate to arterial revascularization” granted by Italian Ministry of Health.

2008-2010 PI of the Finalized Project “Mechanisms of intracellular signalling responsible for protection against heart failure” granted by Italian Ministry of Health.

2008-2009 Operating Unit Responsible of the Project “Terapie Innovative nello scompenso cardiaco. I

micro-RNA: biologia ed applicazioni terapeutiche nell'ipertrofia, nella malattia coronarica e nello scompenso" granted by Italian Ministry of Health.

2008-2009 Operating Unit Responsible in the Strategic Program "La valutazione della fattibilità e dell'impatto di un modello organizzativo di continuità assistenziale basato sull'attivazione di una rete (Territorio-ospedale ed interospedaliera) nei pazienti con scompenso cardiaco cronico" granted by Italian Ministry of Health.

2007-2010 Operating Unit Responsible of the Finalized Project "Identificazione di nuovi target molecolari nel trattamento delle malattie cerebrovascolari" granted by Italian Ministry of Health.

2007-2009 PI of the PRIN Project "Meccanismi di segnalazione intracellulare responsabili della protezione dall'insufficienza cardiaca" granted by MIUR.

2007-2008 PI of the Project "Strategie per la somministrazione cardiaca di melusina ricombinante", granted by Bi.P.Ca.

2006-2010 PI of the Project FIRB-Internazionalizzazione "Proteine chaperone nell'ipertrofia e nell'insufficienza cardiaca" granted by the Italian Ministry of Education, University and Research (MIUR).

2006-2009 Operating Unit Responsible of the Finalized Project "Alterazioni cardiovascolari in pazienti parkinsoniani trattati con dopamino-agonisti" granted by Italian Ministry of Health.

2006-2009 Operating Unit Responsible of the Finalized Project "Role of the signalling pathway PI3Kgamma - Rac1 - oxygen free radicals in the organ damage due to arterial hypertension and hyperglycemia" granted by Italian Ministry of Health.

2005-2008 PI of the Progetto "Messa a punto di servizi di natura medico-diagnostica nell'area GAL", financed within the Program Leader + by Regione Molise, Contado di Molissi - Parco Rurale d'Europa, granted by Moli.G.A.L.

2004-2007 Operating Unit Responsible of the Finalized Project "Determinanti molecolari della disfunzione endoteliale: possibili target terapeutici" granted by Italian Ministry of Health.

2003-2005 Operating Unit Responsible of the PRIN Project "Caratterizzazione di nuovi bersagli molecolari coinvolti nel processo di rimodellamento ipertrofico del ventricolo sinistro mediante l'uso di topi transgenici" granted by MIUR.

2003-2007 Operating Unit Responsible of the FIRB "Future in Research" Project "Identificazione e caratterizzazione funzionale di nuove proteine di segnalazione intracellulare coinvolte nelle malattie cardiovascolari", granted by the Italian Ministry of Education, University and Research (MIUR)

2002-2005 PI of the Finalized Project "Identificazione di nuovi target molecolari nel danno cerebrale da ipertensione arteriosa mediante l'uso di topi transgenici" granted by Italian Ministry of Health.

2002-2005 PI of the Finalized Project "Basi cardiovascolari delle malattie neurologiche" granted by Italian Ministry of Health.

2001-2004 Operating Unit Responsible of the PRIN Project "Ruolo di egr-1 nel rimodellamento cardiaco" granted by MIUR.

2001-2004 PI of the Finalized Project "Terapia genica nello scompenso cardiaco" granted by Italian Ministry of Health.

2001-2004 PI of the Finalized Project "Modifiche dello stile di vita e danno vascolare" granted by Italian Ministry of Health.

2000-2003 PI of the Finalized Project "Target patogenetici molecolari nella terapia dell'insufficienza cardiaca. Studio dei meccanismi molecolari coinvolti nella fase di transizione dall'ipertrofia ventricolare sinistra all'insufficienza cardiaca" granted by Italian Ministry of Health.

1995-1998 PI of the Finalized Project "Predisposizione genetica all'aterosclerosi carotidea: analisi del polimorfismo di geni candidati" granted by Italian Ministry of Health.

ADVISOR ACTIVITY

Reviewer for more than 30 international scientific journals (i.a. *Antioxidants & Redox Signaling*, *Cardiovascular Research*, *Circulation*, *Circulation Research*, *Diabetes*, *Journal of Clinical Investigation*, etc.)

INVITED PRESENTATIONS FOR NATIONAL AND INTERNATIONAL MEETINGS

I was invited to give more than 100 lectures in international meetings or Universities throughout the world.

Among these, I can quote: American Heart Association Scientific Sessions, American Heart Association Council on Hypertension, European Society of Diabetes, etc.

HONOURS, AWARDS, PATENTS

2010 International Patent 1404379 “Eterocicli ad attività antiipertensiva”

2010 International Patent TO2010A000397 “Recombinant melusin fusion protein as pharmacological agent in the treatment of heart pathologies and compositions thereof”.

2002 International Patent WO 2004/056176 A1 “Melusin, A Muscle Specific Protein, As A Drug Target For Prevention And Treatment Of Heart Failure And Applications Thereof”

2000 Hypertension specialist of the European Society of Hypertension

1992 Giulio Muiesan Award by the Italian Society of Arterial Hypertension for research activity about arterial hypertension to be carried out in a foreign laboratory.

1989 Research award in Internal Medicine by the Italian Society of Internal Medicine.

ACTIVITY OF SCIENTIFIC-TECHNOLOGICAL DEVELOPMENT

2006 Business Partner and Co-Founder of the “Target Heart Biotech”, an industrial spin-off finalized to the development of innovative pharmaceuticals against heart failure, through the modulation of the activity of “Melusin” protein, discovered by the co-founders. The spin-off takes advantage of the collaboration of public (University of Turin) and private authorities (Canavese Bioindustry Park and Eporgen Venture).