

Domenico Palombo

Curriculum vitae

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1. General informations

1.1 Personal Data

- ◆ Place of birth: Termoli (CB), 09/10/1950
- ◆ Citizenship: Italian
- ◆ Address (work): Via Cairoli 4/2, 16100 Genoa, Italy
- ◆ Address (home): Fraz. Chantignan 30, 11020 Quart (AO), Italy
- ◆ Current position: Full professor of Vascular Surgery (MED/22)
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1.2 Bibliometrical Data

Publication on peer-reviewed journals: 97

H index: 17

1.3 Academic position

- ◆ From 2005 – October 2014: **Associate Professor** of Vascular Surgery (MED/22) School of Medical and Pharmaceutical Sciences, Department of Integrated Diagnostic and Surgical Sciences (DISC), Genoa University
- ◆ From October 2014: Full Professor of Vascular Surgery (MED/22), School of Medical and Pharmaceutical Sciences, Department of Integrated Diagnostic and Surgical Sciences (DISC), Genoa University

1.4 Hospital Career

- ◆ From 1989 - today **Chief** of Vascular and Endovascular Surgery Unit
- ◆ From September 2003 – today **Chief of** Vascular and Endovascular Surgery Unit at Azienda Ospedaliera Universitaria IRCCS San Martino – IST Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy
- ◆ From 2005 to 2010 – **Chief of Integrated Care Department of Surgery** at Azienda Ospedaliera Universitaria San Martino, Genoa, Italy

- ◆ From June 2012 – today **Chief of Integrated Care Department of Surgery** at IRCCS Azienda Ospedaliera Universitaria San Martino – IST Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy

1.5 Qualifications

- ◆ **High School Degree - Classical Studies** in 1968
- ◆ **Medical Degree** July 1974, with top marks and honors, at the Sacred Heart Catholic University of Rome, with a thesis of Experimental Vascular Surgery
- ◆ **Licensed to Medicine, in February 1975, at the Sacred Heart Catholic University of Rome**
- ◆ **Specialization in Vascular Surgery, July 1977, cum laude, from the Catholic University of the Sacred Heart in Rome**
- ◆ In 1983 Graduated from “Collège Français de Chirurgie Vasculaire”
- ◆ **Declared eligible for the role of Chief of General Surgery and Chief of Vascular Surgery in 1983**
- ◆ **Graduated in 2002** from European Board of Surgery Qualification in Vascular Surgery

1.6 Training abroad

- ◆ Stage, January 1977, at Hopital Cardio-Vasculaire de Lion (Cardiac Surgery Unit, Prof. P. Marion)
- ◆ Stage, September-October 1978, at Hopital Salpêtrière de Paris – Vascular Surgery Unit, Prof. J. Natali
- ◆ Research fellow, for three months in 1979, sustained by the French foreign office, (Hôpital de La Salpêtrière – Paris), Vascular Surgery Unit, Prof. J. Natali
- ◆ Résident Etranger des Hôpitaux Salpêtrière de Paris, October 1981 - September 1982, Vascular Surgery Unit, Prof. J. Natali
- ◆ Stage, September 1982, Montpellier, l'Unité de Chirurgie Thoracique et Cardio-Vasculaire - Prof. A. Thevenet
- ◆ Stage, May 1984, London, St. Mary Hospital Medical School, Cardiovascular Unit - Prof. A. Nicolaides
- ◆ Stage, September 1984, New York, Vascular Surgery Unit, Englewood Hospital (N.I.) - Prof. H. Dardik
- ◆ Stage, September 1984, Houston, Texas Heart Institute, St. Luke's Episcopal Hospital - Prof. D. Cooley
- ◆ Stage, May 1985, London, Surgical Vascular Unit, St. Bartholemew's Hospital - Prof. J.S.P. Lumley

- ◆ Stage, November 1985, Paris, Hopital Salpêtrière de Paris – Vascular Surgery Unit, Prof. J. Natali
- ◆ Stage, September 1986, Sheffield, Angio-radiology Unit, Prof. D. Cumberland
- ◆ Stage, June 1988, Glasgow, Prof. J. Pollock
- ◆ Stage, November 1989; May 1998; January 1999, Paris, Vascular Surgery Unit - Prof. E. Kieffer
- ◆ Stage, January – July 1994 Cardiovascular Surgery Unit, CHU Nord de St. Etienne, Prof. X. Barral

1.7 Clinical Activities

- In 1978: appointed Consultant in Vascular Surgery at Regional Hospital of Aosta, entitled to perform as outpatient specialist
- In 1979: Fellow of the French Foreign Ministry at the Unit of Vascular Surgery, directed by Prof. J. Natali, 'Hôpitaux de Paris Salpetriere
- In 1979: appointed Assistant of General Surgery at the Surgical Division of the Regional Hospital of Aosta, directed by Prof. E. Spagliardi
- In 1980: he won the nomination to "Résident Etranger des Hôpitaux de Paris", at the Unit of Vascular Surgery of Prof. J. Natali, Salpetriere Hôpitaux de Paris. The assignment lasted until the end of 1982, and included surgical activity and taking part in a program of experimental research of new prosthetic materials in experimental animal models.
- In October 1982: appointed Independent Consultant in Vascular Surgery at the Regional Hospital in Aosta, winning the contest for residency in December 1983
- In 1984: appointed, with the title of Assistant chief, at the Departmental Unit of Vascular Surgery and Angiology of the Regional Hospital of Aosta
- In January 1989: appointed Chief of Vascular Surgery Unit at the Regional Hospital in Aosta
- From January 1989: established and organized the Laboratory of Vascular Diagnostics, with photoplethysmograph, continuous wave Doppler with analog spectrum analyzer, Doppler ultrasound, transcranial Doppler, Brain Imager for brain mapping, connected to the management of hospitalized patients.
- In 1990: creation of a Laboratory of Vascular Biology, operative in basic research on the subject of "Atheromatous plaque, growth factors and metalloproteinases"
- In January 1997: appointed Head of the Department of Vascular Surgery at Hospital Mauritian Umberto I in Turin, organizing Day Hospital and ultrasound diagnostic services
- In 1998: creation of a service of Vascular Surgery, with surgical, outpatient and diagnostic ultrasound activities, at the Hospital Mauritian in Lanzo Torinese and Valenza networked with headquarters in Turin
- In January 1998: appointed consultant to start a unit of Vascular Surgery at the ASL of Ivrea (maintained the function up to 2000)

- In April 1998: appointed Director of the Department of Heart and Vascular Disease at the Mauritian Hospital of Turin
- In 2003: called to serve as the Director of the Vascular and Endovascular Surgery Unit at the University Hospital San Martino of Genoa
- With resolution dated 24.12.2003 : appointed Consultant in Matter of Vascular Surgery at the Hospital of the Valle d'Aosta, with the task of overseeing the activities of Vascular Surgery Unit of the Hospital Regional of Valle d'Aosta, by agreement between the Hospital San Martino di Genova and the Local Health Authority of Aosta valid until December 2005.
- In 2005: reach the qualification of Associate Professor of Vascular Surgery at the University of Genoa (with leave period from 30/12/2005 to 30/06/2008)
- Since 2008 is confirmed Director of Vascular and Endovascular Surgery Unit (merged between University and Hospital wards) of the University Hospital San Martino.
- Since 2009: appointed consultant for Vascular Surgery at the Istituto Giannina Gaslini. by agreement between the University Hospital "San Martino" and the Istituto Giannina Gaslini in Genoa, starting from 1.12.2009 and ending on 31.12 .2012
- From 2005 to 2010: Director of the Department of Integrated Dealership (DAI) Surgery Specialist at the University Hospital San Martino di Genova
- From June 2012 to date has been the Director of the Department of Integrated Surgical Care (DAI) at University Hospital IRCCS San Martino - IST National Institute for Cancer Research
- From January 2013 to February 2014 Head of Kidney transplantation Unit of 'IRCCS University Hospital San Martino - IST National Institute for Cancer Research

2. Activities of organization and coordination

2.1 Research groups

Since 2005, as Associate Professor at the University of Genoa, he is the coordinator of a research group called Clinical and Experimental Vascular Biology and Surgery and head of the Laboratory of Clinical and Experimental Vascular Biology (Department of Integrate Surgical Sciences (DISC)). The interdisciplinary team includes PhD students and trainees with different backgrounds, biologists, engineers, pharmacists and vascular surgeons. Detailed below are the collaborations and related research projects coordinated by Domenico Palombo:

- ◆ Cooperation with the Unit of Cardiology, Department of Internal Medicine and Medical Specialties (DIMI) of the University of Genoa for the realization of a research project on the evaluation of the inflammatory state in patients with abdominal aortic aneurysm.
- ◆ Cooperation with the Unit of Medical Clinic 1 of the Department of Internal Medicine and Medical Specialties (DIMI) of the University of Genoa and with the Division of Cardiology, Foundation for Medical Researches, Department of Medical Specialties, University of Geneva - Switzerland for the realization of a research project on the inflammatory state, both local (carotid atheromatous plaque) and systemic, in patients with symptomatic and asymptomatic carotid stenosis
- ◆ Cooperation with the Unit of Nuclear Medicine, Department of Health Sciences (DISSAI) conducting research projects focused on preoperative imaging of abdominal aortic aneurysms.

- ◆ Cooperation with the Department of Civil, Chemical and Environmental Engineering, (DICCA) of the Faculty of Engineering of the University of Genoa for the realization of a research project on the study of in vivo flow fields abdominal aortic aneurysms, in order to identify the possible site of rupture, and in the creation of a research project for the study of the stiffness of the aortic wall after endovascular treatment in patients with abdominal aortic aneurysm.
- ◆ Cooperation with the Department of Civil, Chemical and Environmental Engineering, (DICCA) of the University of Genoa in the realization of a research project "Evaluation of the effects of natural antioxidant compounds acting as vaso-protective new strategy for the treatment and prevention of vascular diseases".
- ◆ Cooperation with the Unit of Medical Oncology at University Hospital IRCCS San Martino - IST National Institute for Cancer Research, in the realization of a research project "Evaluation of carotid myointimal thickness and aortic diameter in postmenopausal women, with physiological hormonal situation, and with total estrogenic block from treatment with aromatase inhibitors for breast cancer".
- ◆ Cooperation with the Clinic of Internal Medicine - Immunological Disease, Department of Internal Medicine and Medical Specialties (DIMI), and with the Dermatology Clinic of the Department of Health Sciences (DISSAL) of the University of Genoa, for the realization of a research project "Evaluation myointimal carotid thickness-in patients with psoriasis and psoriatic arthritis. Comparison between two populations: patients treated with conventional therapy and patients treated with TNF-alpha"
- ◆ Cooperation with the Department of Mechanical and Aerospace of the *Politecnico di Torino* and the Department of Health Sciences, University of Piemonte Orientale "Amedeo Avogadro", Novara, for the realization of a research project "Study in vitro and in vivo for the creation of biodegradable vascular bio-prosthesis with pro-endothelial and anti-calcification activities"
- ◆ Cooperation with the Laboratory of Oncology of IRCCS Gaslini Hospital in Genoa for the realization of a research project "Telomere Length and Oxidative Stress in vascular diseases"
- ◆ Cooperation with the Genoa branch of Esaote for the realization of a research project "Abdominal Aortic Aneurysms (AAA): multidisciplinary study on the possible risk and the site of rupture, fluid dynamics, mechanical and histopathological aspects"
- Founder of the Interdepartmental Centre "RESEARCH CENTER OF ENGINEERING IN VASCULAR Biologically Inspired LONGEVITY AND MEDICINE (BELONG)" for conducting research in science, both medical and engineering, in particular on issues related to the increase in shelf-life and bioavailability of bioactive molecules through techniques of micro- and nano-encapsulation; development of engineered biomaterials; clinical and biological characterization of the molecular processes underlying the onset of vascular diseases; biological evaluation of in vitro and in vivo models of bioactive compounds with a protective action in the context of vascular lesions; research activities in the field of vascular biology, both experimental and clinical.
- Cooperation with the Massachusetts Institute of Technology, Harvard-MIT Health Sciences & Technology, Cambridge, MA, USA for the realization of a research project designed to produce scaffolds with synthetic and natural biodegradable and bio-absorbable polymers, for applications in vascular surgery (grafts). In order to reduce the inflammatory effect of these implants, scaffolds were enriched with antioxidant compounds, respectively micro and nano-encapsulated.

- Cooperation with the 'Institut Agricole Régional Valle d' Aosta' for the realization of a research project "Nutraceuticals in Valle d'Aosta-NUTRALP. Longevity in a sip of apple - The grapewine for Life", aimed at the extraction and characterization of polyphenols from different varieties of apples and grapes and evaluation of their effects on endothelial dysfunction.
- Cooperation with the University of Piemonte Orientale "Amedeo Avogadro" for the realization of a research project "Nanotechnologies for differentiate programs bone development in vessel wall, for the prevention and treatment of diseases associated with ectopic calcification in blood" winner PRIN 2012
- Cooperation with Cardio-Oncology clinic of 'IRCCS San Martino University Hospital IST for the realization of a research project "Prospective study, in vivo and in vitro, to assess the incidence of cardiovascular events in patients with myeloid leukemia in chronic phase treated with Nilotinib "
- Cooperation with the U.O. of Medical Genetics, Department of Neuroscience, rehabilitation, ophthalmology, genetics and maternal and perinatal science (DINOGLMI) of the University of Genoa, for the realization of a research project "Prospective study, in vivo and in vitro, for the evaluation of the role of miRNA markers as predictors of cardiovascular disease "
- Cooperation with the University of Salerno for the realization of a research project "Production of biocompatible scaffolds using supercritical fluids"

2.2 International Scientific Cooperations

- Cooperation with the Massachusetts Institute of Technology, Harvard-MIT Health Sciences & Technology, Cambridge, MA, USA
- Cooperation with the Vascular Surgery Clinic directed by Prof. L. Davidovich, of Dedinje Cardiovascular Institute, School of Medicine, Belgrade University, Belgrade, Republic of Serbia
- Cooperation with the Vascular Surgery Department headed by Prof. A. Giannoukas, University Hospital of Larissa, University of Thessalia, Medical School, Larissa Greece
- Cooperation with the Vascular Surgery Department headed by Prof. V. Treska, the Charles University in Prague, School of Medicine in Pilsen, University Hospital in Pilsen, Czech Republic
- Participate in the International Registry for Penetrating Aortic Ulcer in collaboration with the Vascular Surgery Clinic directed by Prof. L. Davidovich of Dedinje Cardiovascular Institute, School of Medicine, Belgrade University, Belgrade, Republic of Serbia
- Representative of the Italian Vascunct Committee at the European Society for Vascular Surgery (ESVS)
- Examiner for the European Board of Vascular Surgery
- Member of the European Vascular and Endovascular Monitor ("EVEM Panel") for monitoring the results of vascular and endovascular surgery in Europe.

2.3 Department of Surgery

- ◆ March 2010 – July 2012: appointed Head of Communications, Public Relations and Contracts and at the Department of Integrated Diagnostics and Surgical Sciences (DISC) of the University of Genoa.

