



## Curriculum Vitae

**Name:** Paolo MANUNTA, MD PhD

**Place of birth:** Sassari, Italy.

**Birth date:** 20<sup>th</sup> October 1960

**Citizenship:** Italian

**Marital Status:** Married

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### **Educational Background:**

1985 **Degree: Medical Doctor**, University of Sassari

1989 **Speciality in Cardiology**, University of Sassari

2000 **Speciality in Nephrology**, University of Milan

### **Work History:**

1983 - 1985 *Student*, Division of Internal Medicine, University of Sassari

1985 - 1989 *Residency* in Cardiology at University of Sassari

1986 - 1990 *"Emergency On call Service"* for Sassari Hospital

1990 - 1993 *"Post Doctoral Research Fellow"* Department of Physiology, School of Medicine, University of Maryland, Baltimore, Maryland, USA.

1994 *Cardiologist* for the "Cardiology Service" in Sardinia

1994 - 2007 *Clinical Assistant* at the Division of Nephrology, Dialysis and Hypertension San Raffaele Hospital, Milan.

1995 - 2000 *Residency in Nephrology* at University of Milan

2002 – Nov 2023 *Associate Professor of Nephrology*

2007 – 2025 *Director*, School of Nephrology, Università "Vita-Salute" San Raffaele, Milan, Italy

Dec 2023 - *today* *Full Professor of Nephrology*

Clinical Responsibilities at the Division of Nephrology, Dialysis and Hypertension of San Raffaele Hospital (HSR), Milan:

Full Time Senior Clinical Assistant

Coordinator of Hypertension Center

Assistant at Dialysis service

On-call service for the dialysis service

**Research Interests:**

- Nephro-vascular hypertension
- Physiology and pharmacology of cardiovascular and renal systems with particular reference to hypertension disease
- Cellular physiology, membrane ion transports, cellular volume regulation, and cellular membrane biochemistry in essential and genetic hypertension
- Physiology and pathophysiology of Na<sup>+</sup>-K<sup>+</sup>-ATPase inhibitor with particular reference to Endogenous Ouabain
- Genetics of Human Essential Hypertension
- Cardiovascular complication of renal failure
- Pharmacogenomics
- Genetics of End Stage Renal Disease

Principal Investigators in many clinical trials related to kidney diseases and hypertension (ICH-GCP certified).

**Teaching Appointments:**

- *Supervisor* of student of the Medical School of University of Baltimore
- Tutor to students of the School of Nephrology/University "Vita-Salute" San Raffaele (Milan) attending the Division of Nephrology and Dialysis/San Raffaele Scientific Institute (Milan)
- Teacher in integrated courses of the University "Vita-Salute" San Raffaele:
  - Nephrology (chair of Nephrology since 2007)
  - Medical Therapy
  - Cardiology
  - Endocrinology
  - Urology
  - Nephrology, International MD Program
- Active member of University "Vita-Salute" San Raffaele Committees monitoring student admission, national and international mobility, technical-pedagogical updating of educational programs
- Referent of University "Vita-Salute" San Raffaele for CRUI (Conference of Deans of Italian Universities) involved in CHEER (Consolidating Higher Education Experience of Reform in Italy) project.

**Supervisor and co-supervisor of numerous degree theses in Medicine and Surgery, Università Vita Salute San Raffaele, Milan:**

- "Beta-adducin polymorphisms in the progression of chronic glomerulopathies". Student: Carlo Maria Rossi (7/2008)
- "Variabilità della risposta alla dieta iposodica nell'ipertensione arteriosa essenziale: effetto terapeutico e farmacogenomica". Student: Guido, Matteo Gatti (7/2009)
- "Genomica della progressione dell'insufficienza renale cronica". Student: Francesco Trevisani (7/2009)
- "Studio fenotipico e genotipico della citraturia nella nefrolitiasi calcica". Student: Gabriella Lauriero (9/2009)
- "Farmacogenomica dell'ACE inibitore: approccio geni candidati e genome wide scan". Student: Simona Pozzoli (7/2010)
- "I polimorfismi genetici dell'adducina e dell'ACE nell'espressione fenotipica della malattia policistica renale". Student: Serena Antonioli (7/2010)
- "Ruolo dei polimorfismi genetici nella riduzione della funzione renale e raggiungimento del target pressorio: studio di follow up a lungo termine". Student: Stefano Tentori (9/2011)
- "Ruolo del gene dell'uromodulina nei meccanismi di regolazione del bilancio del sodio e della pressione arteriosa". Student: Agnese Binaggia (10/2011)
- "Influenza dei geni dell'alfa-adducina e dell'uromodulina sull'andamento della funzione renale nella malattia del rene policistico dell'adulto". Student: Marina Nuzzo (7/2012)
- "Studio delle calcificazioni vascolari nei pazienti con insufficienza renale cronica mediante DEXA eradiologia convenzionale: valore predittivo di rischio cardiovascolare". Student: Lorenza Macrina (7/2013)

- “Ipertensione arteriosa e sale: determinanti genetici della capacità di adattamento alle variazioni acute e croniche del bilancio salino nei pazienti ipertesi essenziali”. Student: Chiara Maria Maggioni (7/2013)
- “The role of ouabain in a model of renal ischemia-reperfusion injury in rats”. Student: Cesare Regina (2/2014)
- “Exploring the effect of adducins genetic variability on cognition in schizophrenia”. Student: Alessandro Piloni (2/2014)
- “Alterazione del citoscheletro e danno renale: ruolo del polimorfismo del gene dell’alfa adducina nell’insorgenza e nella progressione di insufficienza renale cronica nella malattia del rene policistico autosomico dominante dell’adulto”. Student: Giancarlo Joli (9/2014)
- “A link between salt sensitivity and renal damage: role of Klotho genetic polymorphisms”. Student: Simone Fontana (9/2016)
- “Valutazione dello spessore corticale osseo nella pratica clinica”. Student: Irene Cirella (7/2017)
- “Ruolo della medicina di precisione nello screening dell’ipertensione arteriosa e dell’obesità in una coorte monocentrica”. Student: Laura Mallia (10/2018)
- “Insufficienza renale acuta in pazienti sottoposti a trattamento con inibitori dei checkpoint immunitari e inibitore di pompa protonica”. Student: Pietro Ferrario (10/2020)
- “Predittori di insufficienza renale acuta in corso di sepsi e shock settico”. Student: Camilla Visconti (6/2020)
- “Marcatori precoci di danno renale acuto post-operatorio”. Student: Lorenzo Cocchini (7/2021)
- “Salt sensitivity and hypertensive nephropathy: a link to be discovered”. Student: Giulio Amadei (7/2022)
- “The role of 24-hours blood pressure monitoring in the diagnosis of sodium sensitivity”. Student: Anna Rosa Di Cosola (7/2023)
- “Ruolo dei polimorfismi genetici della sodio sensibilità nei disordini ipertensivi in gravidanza”. Student: Carola D’Agostino (7/2023)
- “The role of pharmacogenetics of diuretic therapy in the treatment of essential hypertension”. Student: Veronica Ferri (2/2024)

**Supervisor of degree theses in Medicine and Surgery, International Medicine Program (IMD), Università Vita Salute San Raffaele, Milan:**

- “Pulmonary impairment in Autosomal Dominant Polycystic Kidney Disease”. Student: Luigi Tuccillo (7/2019)
- “Role of SLC8A1/NCX1 and Klotho gene polymorphisms in the development of kidney damage: a retrospective study”. Student: Annicchiario Rebecca (7/2020)
- “Reliability of Acute Salt Load Test in Salt Sensitivity in Human Hypertension”. Student: Ravi Guido Mathew Kalapurackal (9/2020)
- “Gut dysbiosis, inflammation and salt-sensitive hypertension: a review of literature”. Student: Hadir Ismail (9/2021)
- “Clinical utility and limitations of bioelectrical impedance analysis for estimating body composition and water distribution in patient affected by ADPKD”. Student: Maria Vittoria Vergani (6/2022)
- “Hypertension in elderlies: a multi parametric analysis of the FRASNET population”. Student: Federico Doti (6/2022)
- “Heterogeneity of clinical response to low salt diet in naïve essential hypertensive patients: phenotypic and genotypic characterization”. Student: Ahmad El Saadi (6/2024)

**Supervisor of degree thesis in Molecular and Cellular Medical Biotechnologies, Università Vita Salute San Raffaele, Milan:**

- “Identificazione dei pathways cellulari attivati dall’overespressione di uromodulina in un modello murino di ipertensione e malattia renale cronica”. Student: Anna Creatore (3/2013)
- “Studio di associazione genetica volto alla ricerca di varianti implicate nella severità di malattia in pazienti affetti da Sclerosi Multipla”. Student: Martina Tosi (1/2020)

**Supervisor of degree thesis in Physiotherapy, Università Vita Salute San Raffaele, Milan:**

- “Ruolo della valutazione della sarcopenia e delle prove fisiche nella definizione di fragilità nel soggetto anziano. Un approccio multidisciplinare attraverso lo studio FrasNet”. Student: Davide Ciceri (11/2018)
- “Valutazione della composizione corporea e delle prove fisiche per determinare il rischio di caduta nei soggetti anziani: un approccio multidisciplinare attraverso lo studio FRASNET”. Student: Riccardo Palamenghi (11/2019)
- “Progetto FRASNET: approccio multidisciplinare per determinare le relazioni tra composizione corporea, attività e performance fisica nell’anziano”. Student: Dario Polli (11/2020)
- “Sarcopenia e insufficienza renale nell’anziano: analisi dello studio FRAS-NET”. Student: Roberto Ratto (4/2022)

**Supervisor of degree thesis in Nursing and Midwifery, Università Vita Salute San Raffaele, Milan:**

- “L’utilizzo di un diario e di un pedometro per l’aderenza alle terapie nei pazienti affetti da malattia policistica renale autosomica dominante ed insufficienza renale cronica: uno studio randomizzato controllato”. Student: Federica Maugeri (11/2024)

**Supervisor of Diploma theses of the School of Specialization in Nephrology, Università Vita Salute San Raffaele, Milan:**

- “Ouabaina endogenous-genes modifiers nella malattia policistica renale autosomica dominante”. Specializzando: dr.ssa Luisa Persichini (4/2007)
- “Identification of glomerular progenitor cells”. Resident: Susanna Valentini (6/2007)
- “Associazione tra il genotipo del gene CaSR e la nefrolitiasi calcica nei pazienti con iperparatiroidismo primitivo”. Resident: Vera Paloschi (11/2008)
- “La fistola arterovenosa per emodialisi: analisi di sopravvivenza e ruolo dei geni dell’adducina nella pervietà”. Resident: Cristina Tantardini (11/2008)
- “Ruolo predittivo della sodio sensibilità e dei geni ad essa correlati nella risposta la beta-bloccante in pazienti ipertesi essenziali: un altro passo verso la farmacogenomica?”. Resident: Maria Bracale (11/2008)
- “Nefrite lupica: presentazione di una casistica italiana e valutazione dei geni candidati”. Resident: Giovanna Bonavida (11/2009)
- “Relationship between blood pressure and volume status in chronic hemodialysis patients”. Resident: Maria Luisa Querques (11/2010)
- “Biohumoral and enetic risk models predicting postoperative acute kidney injury”. Resident: Marco Simonini (7/2012)
- “Link between chronic kidney disease and heart failure in an African American population: role of Endogenous Ouabain”. Resident: Irene Maria Botticelli (7/2012)
- “Epidemiology and renal outcomes of multiple myeloma: the experience of two European centers”. Resident: Francesco Rainone (3/2013)
- “The NEPTUNE digital pathology protocol: a novel methodology for evaluation of nephritic syndrome”. Resident: Lino Merlino (7/2014)
- “Molecular and clinical biomarkers of chronic kidney disease and hypertension following radical nephrectomy for renal carcinoma”. Resident: Francesco Trevisani (5/2015)
- “Hypertension in hemodialysis patients: dialysis techniques, hormonal regulation and genetic background”. Resident: Guido, Matteo Gatti (5/2015)
- “Role of genetic predisposition and Endogenous Ouabain (EO) level in the development of acute kidney injury (AKI)”. Resident: Simona Pozzoli (7/2016)
- “Hypertension in high school students. Genetic and environmental factors: the HYGEF study”. Resident Stefano Tentori (7/2017)
- “Lanosterol Synthase genetic variant rs2254524 (V642L) a new susceptibility factor for podocyte injury and kidney damage”. Resident: Lorenza Macrina (9/2019)
- “Correlazione genotipo - fenotipo nella malattia del rene policistico autosomico dominante dell'adulto: ricerca e scoperta di nuove mutazioni patogeniche”. Resident: Giancarlo Joli (11/2019)
- “Risposta al test di carico salino acuto come fattore predittivo dello sviluppo di danno cardiovascolare in pazienti con ipertensione arteriosa essenziale”. Resident: Ermira Cuka (9/2020)
- “Renal Progenitor Cells in Lupus Nephritis”. Resident: Paola Casanova (11/2020)

- “Ipercalciuria e polimorfismi dei geni NKAIN3, SLC8A1, SLC24A3 e Klotho”. Resident: Giulia Magni (11/2020)
- “The Adolescents Healthy Lifestyle Score: A new perspective in evaluating hypertensive children and adolescent”. Resident: Chiara Maria Maggioni (2/2021)
- “Nuovi orizzonti nell'oncologia: ruolo di Klotho nello sviluppo di complicanze renali in corso di chemioterapia in pazienti ematologici”. Resident: Simone Fontana (1/2022)
- “Polimorfismi genetici ed eterogeneità fenotipica nella malattia del rene policistico autosomico dominante dell'adulto”. Resident: Marta Vespa (1/2022)
- “Assessment of safety and efficacy of expandend hemodialysis using medium cut-off dialyzer in comparison to hemodiafiltration”. Resident: Matteo Marcello (11/2022)
- “Klotho e Irisina nei pazienti nefropatici: relazione con l'attività fisica e la funzione renale”. Resident: Monica Avino (11/2022)
- “Emodialisi incrementale: revisione della letteratura ed esperienza in ASST Valle Olona”. Resident: Paolo Betti (11/2023)
- “Influenza dei polimorfismi genetici sulla risposta al tolvaptan nella malattia del rene policistico autosomico dominante dell'adulto”. Resident: Romina Bucci (11/2023)
- “Monitoraggio e sorveglianza dell'accesso vascolare in emodialisi: il ruolo del nefrologo”. Resident: Marta De Filippo (11/2023)
- “Correlazione tra parametri genetici, metabolici e infiammatori e fenotipo clinico nei pazienti con ADPKD”. Resident: Arianna Bologna (1/2025)
- “Analisi real-life delle caratteristiche cliniche dei pazienti con nefropatia IgA”. Resident: Alessandro Barruscotti (1/2025)
- “Lo stato volêmico nel paziente in dialisi peritoneale: dati clinici e strumentali a confronto nel follow-up ambulatoriale”. Resident: Davide Raimondo (1/2025)
- “Renal prognosis in ADPKD: the role of the alpha-adducin polymorphism beyond PKD genotype “. Resident: Martina Catania (11/2025)
- “Gamma-delta T Cells in a Murine Model of Glomerulosclerosis”. Resident: Lorenzo Cocchini (11/2025)
- “La fistola artero venosa da emodialisi: valutazione clinica ed ecografica per il confezionamento e la diagnosi e prevenzione delle complicanze”. Resident: Luca D'Urbano (11/2025)
- “Declino renale e risposta alla terapia con Tolvaptan nella malattia del rene policistico autosomico dominante dell'adulto: ruolo dell'interazione epistatica tra genotipo PKD e polimorfismo del gene dell'alfa-adducina”. Resident: Liliana I. De Rosa (11/2025)
- “Livelli sierici di Klotho nei disordini ipertensivi in gravidanza: un potenziale biomarcatore?”. Resident: Francesca Tunesi (11/2025)

**Member of the Research Doctorate Commission in Molecular Medicine / Experimental Neurology Program, Università Vita Salute San Raffaele, Milan:**

- “An SLC9A9 variant influences the disease activity in interferon-treated multiple sclerosis patients”. Doctoral student: Melissa Sorosina (4/2014)
- “Role of genetic predisposition and Endogenous Ouabain in acute kidney injury”. Doctoral student: Rossella Iatrino (7/2017)
- “Lss knock-in mouse model of salt-sensitive hypertension and renal glomerular damage” Doctoral student: Sipontina Faienza (4/2023)

**Supervisor of degree theses in Medicine and Surgery, Katholieke Univesiteit Leuven, Belgium:**

- “Relationship of candidate genes with blood pressure and related phenotypes in two different populations”. Student: Jiguang Wang (2003)
- “Context-dependency of renin-angiotensin-aldosterone system genes in relation to left ventricular structure”. Student: Tatiana Kuznetsova (2004)

**Supervisor of Diploma theses of the School of Specialization in Internal Medicine, Università degli Studi di Udine, Italy:**

- “Polimorfismi genetici dell'ACE e dell'alpha-adducina: ruolo nella risposta nefroprotettiva ai farmaci bloccanti il sistema renina angiotensina nel danno renale da ipertensione arteriosa “. Resident: Marileda Novello (9/2006)

## ***Publications and Academic Honours & Awards***

Author or co-author of many publications on international and national scientific journals

WoS ID: ABH-5476-2020

ORCID: 0000-0003-3976-9696

Scopus Author ID: 7004391832

- 1992 American Heart Association (Council of Hypertension).
- 1996 Italian-American Nephrology Society
- 2000 SIN Italian Nephrology Society (Top poster presentation)
- 2004 SIN Italian Nephrology Society (5 Tops oral presentation).
- 2004 *European Hypertension Specialist of the European Hypertension Society*
- 2005 SIN Italian Nephrology Society (Top poster presentation)
- 2008 ERA/EDTA Congress (Top oral presentation)
- 2008 13<sup>th</sup> International SHR Meeting (invited speaker)
- 2008 University of Maryland (Baltimore, USA), invited speaker at the Seminar “Link between salt and hypertension: role of Na<sup>+</sup>/Ca<sup>2+</sup> exchanger gene and endogenous ouabain in hypertensive patients”
- 2009 European Society of Hypertension, ESH (Top poster presentation)
- 2010 HSR retreat (Top oral presentation)
- 2010 The Hebrew University of Jerusalem “Interactions of cardiac steroids and the Na<sup>+</sup>, K<sup>+</sup>-ATPase: molecular, physiological and pharmacological implications” (invited speaker))
- 2013 SIN “Accademia delle idee”: 1° premio miglior idea da sviluppare in Nefrologia
- 2013 ERA/EDTA, European Renal Association/European Dialysis and Transplantation Association Congress (Top oral presentation)
- 2020 AHA Hypertension: High Impact Paper for Spring 2020 in the category of population science  
Article: Hypertension in High School Students: Genetic and Environmental Factors  
*Hypertension* 2020; 75:71–78
- 2020 AHA American Heart Association – Hypertension Scientific Session
  - a. Paul Dudley White International Scholar Award to the authors with the “highest ranked abstract from Italy” (abstract P118: Antihypertensive treatment guided by genetics: PEARL-HT, the randomized proof-of-concept trial comparing Rostafuroxin with Losartan. Authors: Citterio L, Bianchi G, Cusi D, Ferrandi M, Lanzani C, Chiang CE, Ferrari P, Manunta P)
  - b. News press release on the research “HBP - Blood Pressure De-regulation And Renal Function Are Main Determinants Of Covid-19 Mortality”. Authors: Lanzani C, Simonini M, Messaggio E, Arcidiacono T, Bucci R, Betti P, Rovere Querini P, Conte C, Vezzoli G, Manunta P.
- 2020 “Best of American Society of Nephrology (ASN) Journals” session:  
Klotho gene (KL) in human salt-sensitive hypertension: a link between salt and renal ageing?  
Citterio L et al. *CJASN* March 2020, 15 (3) 375-383

## **January 2018**

Evaluation of the **Scientific Advisory Board (SAB)** of the Division of Genetics and Cell Biology/IRCCS San Raffaele Scientific Institute:

### ***Overall assessment: Excellent***

1. Research productivity: Excellent
2. The quality of research program including future plans: Excellent
3. The significance of research in the Institution: Excellent
4. Vitality and organisational capability: Excellent

(SAB Commission: Chair: Michael Caplan, Chair of the Department of Molecular and Cellular Physiology, Yale, USA; Manuela Zaccolo, Deputy Director of the Department of Physiology, Anatomy and Genetics, Oxford, UK; Michele Solimena, Director of the Paul Langerhans Institute, Dresden, Germany)

▪ Membership:

*Italian Society of Hypertension*

*Italian Society of Nephrology*

*Italian Society of Experimental Biology*

*Collegio dei Nefrologi Accademici, 2010 to present*

*Scientific Committee of ASL Città di Milano (2001-2003 and 2008-2010): Hypertension: guidelines*

*European Hypertension Society/International Society of Hypertension: Clinical Hypertension Specialist of European Society of Hypertension (nomination 2004)*

*Scientific Committee of the Italian Society of Nephrology, 2014*

*Accademia delle Idee of the Italian Society of Nephrology, 2013-2014*

▪ Editorial Board:

*Giornale Italiano di Nefrologia*

*Journal of Hypertension*

*World Journal of Hypertension*

*The Scientific World Journal*

*Journal of Nephrology*

*Journal of Nephrology Research*

*Austin Journal of Nephrology and Hypertension*

*International Journal of Chronic Diseases & Therapy*

*International Journal of Molecular Sciences*

▪ Reviewer Activity:

Referee for international peer-review journals including:

- Hypertension
- Journal of Hypertension
- Biochimica et Biophysica Acta
- Kidney International
- Nephrology, Dialysis and Transplantation
- Journal of Nephrology
- Journal American Society Nephrology (JASN)
- PloS One
- Circulation
- Circulation Research

**Scientific Divulcation**

Organization of the following scientific events:

**30<sup>th</sup> October 2015** (Milan, Italy): *Il Rene Policistico (ADPKD)*

**20<sup>th</sup> January 2018** (Milan, Italy): *1<sup>st</sup> International Course: Hypertension in Nephrology and ADPKD*

**24<sup>th</sup> September 2019** (Milan, Italy): *Dalla resilienza alla fragilità in medicina, in psicologia e nella filosofia*

**International and national scientific collaborations:**

- Bianchi S, Nephrology ASL 6 Toscana, Italy
- Bigazzi R, Div. Nephrology Spedali Riuniti Livorno, Italy
- Bignami E, Anesthesiology, University of Parma, Italy
- Blaustein M, School of Medicine, University of Maryland, USA
- Campese V, Division of Nephrology, Department of Medicine, University of Southern California, Los Angeles, California, USA
- Capasso G, Dip. Scienze Mediche Università Federico II, Napoli, Italy
- Capuccio F, Mental Health and Wellbeing University of Warwick, Coventry, UK
- Cusi D, Dip. Medicine and Surgery, Università degli Studi di Milano, Italy
- Dominiczak A, University of Glasgow, UK

- Fornoni A, Div Nephrology School of Medicine, Miami University, Florida, USA
- Gervasini Rodriguez G, University of Extremadura, Dept. Medical-Surgery Therapeutics, Badajoz, Spain
- Glorioso N, Dep. Medicine, Surgery University of Sassari, Italy
- Hamlyn JM, School of Medicine University of Maryland, USA
- Karlsh S, Dep. of Biological Chemistry, Weizmann Institute of Science, Rehovot, Israel
- Kuznetsova T, Research Unit of Hypertension and Cardiovascular Epidemiology, Dep. of Cardiovascular Sciences, University of Leuven, Leuven, Belgium
- Manfredi A, Università Vita Salute San Raffaele, Milano, Italy
- Nobuaki I, University of Tokyo Hospital, Tokyo, Japan
- Rampoldi L, School of Medicine Division of Genetics and Cell Biology, San Raffaele Scientific Institute, Milan, Italy
- Samani N, University of Leicester, Leicester, UK
- Staessen J, Dep. of Cardiovascular Sciences, University of Leuven, Leuven, Belgium
- Turner ST, Mayo Clinic, Rochester, Minnesota, USA
- Wang JG, Shanghai Institute of Hypertension, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, China

## FINANCIAL RESOURCES

### Ongoing projects

#### **Fondazione di Sardegna – Role: Proponent**

*La fragilità nell'anziano: ruolo dell'invecchiamento renale e della sarcopenia*

Duration: 2024-2027

### Past projects

#### **EU - Piano Nazionale di Ripresa e Resilienza (PNRR 2022- Missione 6-Salute) – Role: PI**

**PNRR-MAD-2022-12376413** - *Dissecting novel pathways associated with hypertension and related kidney damage*

Duration: 2023-2025

#### **Italian Ministry of Health/Ricerca Finalizzata BANDO 2016 – Role: Participant (PI: Dr. L. Rampoldi, IRCCS San Raffaele Scientific Institute, Milan)**

*RF-2016-02362623* - *Dissection of new pathways linking renal sodium handling and hormonal control of blood pressure. A pharmacogenetics approach for personalized treatment.*

Duration: 2018-2023

#### **Bando Cariplo 2016 – Role: PI**

*2016-0980* - *Renal ageing-sarcopenia network: a combined genetic, immunological and psychological approach to dissect frailty (FRAS-NET project)*

Duration: years 2017-2020

#### **Italian Ministry of Health/Ricerca Finalizzata BANDO 2011-2012 – Role: PI**

*RF-2011-02347356* - *Pharmacogenomics of hypertension: a new approach for a personalized medicine.*

Co-funded by Regione Lombardia (Euros 81,072)

Duration: years 2014-2018

#### **Italian Ministry of Health/Ricerca Finalizzata BANDO 2011-2012 – Role: Participant (PI: Prof. R. Bigazzi, ASL Livorno)**

*PE-2011-02346986* - *Hypertension in high school students: genetic and environmental factors.*

Duration: years 2014-2018

#### **Italian Ministry of Health/Ricerca Finalizzata 2008 – PI: prof. P. Manunta**

*RF-2008-1141719* - *Genetic biomarkers for a personalized therapy preventing cardiovascular complications in diabetic nephropathy.*

Duration: years 2010-2013

#### **Italian Ministry of Research/COFIN 2008 - Role: PI**

*2008W5AZEC* - *Pharmacogenomics of human salt-sensitive hypertension: diuretic or ACE inhibitor treatment, individualized therapy comparison.*

Duration: years 2009 – 2012

#### **Italian Ministry of Health/Ricerca Finalizzata 2008 – Role: Participant (PI: dr.ssa A. Boletta, IRCCS San Raffaele Scientific Institute, Milan)**

*Left ventricular hypertrophy (LVH) and other cardiovascular manifestations in ADPKD: a translational study.*

Duration: years 2010-2012

#### **European Community – Role: Participant**

*LSMH-CT-2006-037093* - *InGenious HyperCare: Integrating Genomics, Clinical Research and Care in Hypertension*

Duration: years 2007-2010

### ***Current Position***

- Full Professor, Chair of Nephrology, Università "Vita-Salute" San Raffaele, Milan, Italy (from December 2023)
- Director, Genomics of Renal Diseases and Hypertension Unit, Scientific Department/Clinical Area, San Raffaele Scientific Institute, Milan, Italy (from October 2010)
- Co-chief, Division of Nephrology and Dialysis, San Raffaele Scientific Institute, Milan (from November 2007)

**Address:** IRCCS San Raffaele Scientific Institute, OU Nephrology and Dialysis, Via Olgettina 60, 20132 Milan, Italy

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

Milan, 25<sup>th</sup> May 2026

A handwritten signature in black ink, appearing to read 'P. Manunta', written over a light blue horizontal line.

Prof. Paolo Manunta

## PUBLICATIONS

Full list of scientific publications of Prof. Paolo Manunta is available on web site <http://www.ncbi.nlm.nih.gov/pubmed>

1. MAEDDU P, OPPE M, SORO A, **MANUNTA P**, RUBATTU S, GLORIOSO N, DESSI'-FULGHERI P, RAPPELLI A. Renal and Humoral effects of short and medium-term nifedipine treatment in essential hypertensives. *Curr Ther Res* 1987;41:589-598.
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