



Curriculum Vitae

Name: Paolo MANUNTA, MD PhD

Place of birth: Sassari, Italy.
Birth date: 20th 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*
dec 2023 *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⁺-K⁺-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 Pignoni (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)

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: Annicchiarico 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 elderly: a multi parametric analysis of the FRASNET population”. Student: Federico Doti (6/2022)

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

- “Ouabaina endogena-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'onconefrologia: 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)

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
(total IF 1231,027 / about 12000 citations h-index: 46 (Scopus) - 44 (WOS)

- 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 13th International SHR Meeting (invited speaker)
- 2008 University of Maryland (Baltimore, USA), invited speaker at the Seminar “Link between salt and hypertension: role of Na⁺/Ca²⁺ exchanger gene and endogenous ouabain in hypertensive patients”
- 2009 European Society of Hypertension, ESH (Top poster presentation)
- 2010 HSR retreat (Top oral presentation)
- 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 Divulgation

Organization of the following scientific events:

30th October 2015 (Milan, Italy): *Il Rene Policistico (ADPKD)*

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

24th 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
- Karlish 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

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

Fondazione di Sardegna – Role: Proponent

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

Duration: 3 years (to be defined)

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

Past projects

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

Director, School of Nephrology, Università "Vita-Salute" San Raffaele, Milan, Italy (from November 2007)

Full Professor, Chair of Nephrology, Università "Vita-Salute" San Raffaele, Milan, Italy (from December 2023)

Director, Genetics of Kidney Diseases and Hypertension Unit, Scientific Department/Clinical Area, San Raffaele Scientific Institute, Milan, Italy (from October 2010)

Director, Unit of Research and Tutoring Programs in Nephrology and Dialysis, San Raffaele Scientific Institute, Milan, Italy (from November 2007)

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, 10th March 2024

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>
(total IF 1231,027 / about 12000 citations h-index: 46 (Scopus) - 44 (WOS))

1. MADEDDU 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.
2. MADEDDU P, OPPE M, SORO A, DESSI'-FULGHERI P, GLORIOSO N, BANDIERA F, **MANUNTA P**, RUBATTU S, RAPPELLI A. The effects of aprotinin, a kallikrein inhibitor, on renin release and urinary sodium excretion in mild essential hypertensives. *J Hypertens* 1987; 5:581-586.
3. MADEDDU P, OPPE M, SORO A, DESSI'-FULGHERI P, GLORIOSO N, BANDIERA F, **MANUNTA P**, RUBATTU S, TROFFA C, TONOLO G, COCCO G, RAPPELLI A. Natriuretic effect of acute nifedipine administration is not mediated by renal kallikrein-kinin system. *J Cardiovasc Pharmacol* 1987; 9:536-540.
4. TONOLO G, **MANUNTA P**, MC MILLAN M, POLONIA J, MONTORSI P, MALAVASI A, GLORIOSO N, RICHARDS AM. Effects of alpha-human natriuretic peptide (a-hANP) on microhaematocrit in normal subjects, essential hypertensives and patients with end stage chronic renal failure. *J Hypertens* 1987;5(suppl. 5):S79-S81.
5. GLORIOSO N, **MANUNTA P**, TROFFA C, PAZZOLA A, SORO A, PALA F, MELIS MG, MADEDDU P, TONOLO G. Effects of nitrendipine on blood pressure, renin-angiotensin system, and kidney function in essential hypertension. *J Cardiovasc Pharm* 1988; 12(suppl. 4):S142-S145.
6. MADEDDU P, **MANUNTA P**, SORO A, OPPE M, GLORIOSO N, RUBATTU S, RAPPELLI A. Antihypertensive effect of orally administered pig pancreatic kallikrein. *Curr Ther Res* 1989; 46:223-229.
7. TONOLO G, **MANUNTA P**, RICHARDS AM, SORO A, MADEDDU P, MAIOLI M, GLORIOSO N. No changes in plasma insulin and cortisol during ANF infusion in essential hypertension. *Am J Hypertension* 1989;3:584-587.
8. MADEDDU P, TROFFA C, GLORIOSO N, PAZZOLA A, SORO A, **MANUNTA P**, TONOLO G, DEMONTIS MP, VARONI MV, ANANIA V. Effect of endothelin on regional hemodynamics and renal function in awake normotensive rats. *J Cardiovasc Pharm* 1989; 14:818-825.
9. TONOLO G, RICHARDS AM, **MANUNTA P**, TROFFA C, PAZZOLA A, MADEDDU P, TOWRIE A, FRASER R, GLORIOSO N. Low-Dose infusion of atrial natriuretic factor in mild essential hypertension. *Circulation* 1989; 80:893-902.
10. GLORIOSO N, TROFFA C, TONOLO G, MELIS MG, **MANUNTA P**, SORO A, MADEDDU P, PAZZOLA A, PALA F. Stimulation of plasma inactive renin by dexamethasone in the cat. *Am J Physiol* 1989;257:E879-E884.
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