To the ESC Council on Hypertension

With this letter I would like to express my will to apply for the position of Treasurer within the nucleus of the ESC Council on Hypertension.

I have a 15-year experience in clinical activity and research in the field of hypertension in Italy and then in France. In the last 4 years, I covered the position of Communication Coordinator within the nucleus of the ESC Council on Hypertension, a stimulating experience, and I participated and organized many related activities, including Webinars and Scientific Documents. I thus acquired a considerable experience in the organizational aspects of the life of the Council, which I would like to exploit in a role of greater responsibility such as that one of the Treasurer. I would be eager to support the new Chair in novel activities and to ensure that the assigned budget is efficiently used.

I kindly ask the Council to consider my application for the position of Treasurer and I join 5 relevant publications. I sincerely hope to continue to actively contribute to the life of the ESC Council on Hypertension.

Yours sincerely

Rosa Maria Bruno

List of 5 relevant publications:


CURRICULUM VITAE Rosa Maria BRUNO

Birth date : 17/06/1979 in Italy (Empoli, FI)
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Education :
28/11/2003 : Degree in Medicine and Surgery (MD) magna cum laude (110/110), University of Pisa, Italy.
22/10/2009 : Internship in Internal Medicine, University of Pisa, Italy.
01/10/2013: PhD in Physiopathology and Clinical Pharmacology, University of Pisa, Italy. Thesis: Imaging biomarkers of vascular structure and function in humans.

Work experience :
01/09/2022-present: Full professor in Pharmacology at Université Paris Cité (Paris, France)
01/09/2019 – 30/08/2022: Researcher at INSERM U970, Paris Cardiovascular Research Center (PARCC, Paris, France) ; lecturer at the Université de Paris, nominated Full Professor in Clinical Pharmacology (effective from September 2022).
2018 – present: Member of the Council of the PhD school in Clinical and Translational Sciences, University of Pisa, Italy.
04/01/2016-31/08/2019 : Assistant Professor in Internal Medicine, University of Pisa, Italy. Director of the day-service of the ESH Excellence Center of Hypertension at the University Hospital of Pisa (Italy).
16/03/2012-16/09/2015!: Researcher at Institute of Clinical Physiology – CNR, Pisa, Italy!

Languages :
Mother tongue!: italian. Other languages!: English (Level C2 CEFR). In 04/03/2015 she obtained the Cambridge English Certificate in Advanced English Exam (CAE) with the votation of 205 (Grade A - Proficiency level – C2). French (Level C1 CEFR).

Research interests:
Rosa Maria Bruno is primarily involved in research on the pathophysiology of hypertension, particularly the role of vascular function, structural changes and adrenergic activation. In the field of hypertension, she is particularly interested in resistant hypertension, renovascular hypertension (especially fibromuscular dysplasia) and hypertension in women, in a pathophysiological and pharmacotherapeutic approach. She has expertise in the evaluation of functional and structural alterations in micro- and macrovasculature, as well as their application in risk stratification in patients with cardiovascular risk factors and in diseases not primarily cardiovascular and their treatment. She is particularly involved in the evaluation of cardiovascular drugs and has been involved at different levels of responsibility (investigator, principal investigator) in several drug clinical trials.

Clinical Research protocols – Principal Investigator
- WP Leader in the VITAL project - HORIZON-HLTH-2023-TOOL-05-03 (1000K euro)
- WP Leader in the STIMULUS project - HORIZON-EIC-2022-PATHFINDERCHALLENGES-01-04 (400K euro)
- WP Leader in the EPIVASCAGE project – ANR-France (150K euro)
- COVID-19 effects on arterial stiffness and vascular aging (CARTESIAN) study (100k Euro)
- Vascular phenotyping in systemic sclerosis by ultrahigh frequency ultrasound: development of a machine learning classifier for hand vascular involvement (30K euro)
- Leader of the Working Group "Registries and big data" in the COST Action VascAgeNet (CA18216) (500K euro)
- Working Package Leader for the Tune-Beam project – Progetto Salute Regione Toscana (150K euro)
- Founding Member of the N2Lab (Microneurography and Neurostimulation Lab) in Pisa, Italy
- National coordinator of the Italian Fibromuscular Displasia Registry (included in the European FMD Registry).
- FUCHSIA: “Very high-Frequency Ultrasonography for arterial phenotyping in patients with Cervico-Cerebral Artery Dissection (CCeAD), Hypertension, Spontaneous Coronary Artery Dissection (SCAD) and FibroMuscular Dysplasia (FMD)”.
- **STAPLE**: “Effect of black Tea on blood Pressure, vascular function and renin-angiotensin-aldosterone system in untreated pre-hypertensive or grade 1 hypertensive subjects without concomitant risk factors.”
- **FMD-confirmatory**: “Impatto della supplementazione con ubiquinolo sulla funzione endoteliale in soggetti a rischio di sviluppare patologie cardiovascolari: studio in doppio cieco, randomizzato, controllato verso placebo, a gruppi paralleli, multicentrico, confermatorio”. (60K euro)

**Clinical Research Protocols – Co-PI or sub-investigator**
- **MINISMINDSHIFT** (MSCA-ITN)(2021-present)(700K euro)
- **CVVENT**: risk assessment of plaque rupture and future cardiovascular events by multi-spectral photoacoustic imaging (H2020-ICT-29-2016)(700K euro)
- **InSiDe**: Integrated Silicon photonics for Cardiovascular Disease monitoring (H2020-ICT-2018-2020) (700K euro)
- **FUCHSIA-FR**: étude des propriétés artérielles dans la dysplasie fibromusculaire et le Syndrome d’Ehlers-Danlos vasculaire par échographie à très haute fréquence
- **DAPA-BP**: “Effect of dapagliflozin on flow-mediated dilation and blood pressure (DAPA-BP): a phase III, randomized, open-label, parallel group study in hypertensive patients with controlled type 2 diabetes”. (120K euro)
- "Integrated vascular phenotyping in cerebral dissections and aneurysms: exploring the FMD spectrum", PRA 2018 (University of Pisa) (45K euro)
- **SERAVC** study (Effects of exposure to aircraft noise on sleep and cardiovascular endpoints), PRA 2015 (University of Pisa) (40K euro)
- "Acute systemic inflammation and endothelial dysfunction after periodontal decontamination", PRA 2016 (University of Pisa) (40K euro)
- "Life changes and life quality; health, urban environment, and political participation", PRA 2016 (University of Pisa) (40K euro)
- ** IUVO Project**: (Robot Cognitivo Indossabile per assistenza motoria funzionale degli arti inferiori), Fondazione Pisa (2012-2016) (180K euro)
- **Train the Brain Project**, Fondazione Pisa (2012-2015) (400K euro)
- **SHARE** (Stations at High Altitude for Research on the Environment) project, funded by Ev-K2-CNR
- Résumont2 (P.O. Coopération Territoriale Européenne Italie-France (ALPES) 2007-2013 ALCOTRA.
- **CL3-05153-006** (Servier)
- **MK1242-001_Vericiguat VICTORIA** (Merck)
- **EMPEROR - Preserved** 1245.110 and –Reduced 1245.121 (Boehringer Ingelheim)

**Awards**
- AHFRE Travel Award for Patient-Oriented or Clinical Research in Hypertension - Hypertension 2017 Scientific Sessions. Winner of Best Clinical Case Award - SIIA Meeting (2009)
- Winner of Best Poster Award - ESH Meeting (2010)
- Winner of Young Investigator Award - High Blood Pressure Research Sessions (2012)
- Winner of the 1st prize for the Best Career Development Lecture at Artery 15 Meeting (2015)
- Winner of the AHFRE Travel Award for Patient-Oriented or Clinical Research in Hypertension (2017) at the Hypertension 2017 Scientific Sessions.
- Winner for a least 5 consecutive years of Travel Awards for ESH Meetings and SIIA meetings.

**Other scientific activities**:  
**Faculty**:
- Local organizer of the First Working Group Meeting of the European COST action VascAgeNet (CA182116) (19-21 February 2020, Paris, France)
- Local Organizing Committee of the Artery 17 Meeting (10-12 October 2017, Pisa, Italy) and of the Artery 21 Meeting (21-23 October 2021, Paris, Italy)
- Organizing Committee of the Meetings ”Novità nello studio dell’aterosclerosi e delle sue complicanze. Incontro tra giovani ricercatori. Spring meeting dei Giovani Ricercatori SIMI, SIIA, SISA “ (Rimini, 6-7 Aprile 2018; Roma 7-8 Aprile 2017; Rimini 11-12 March 2016, Italy ).
- Organizing Committee of Meeting DIASTOLE DISEASED "DD – 2016" (Pisa, Italy, 03-05 March 2016)
- Educational Course "Dal sintomo alla diagnosi nelle patologie toraciche e abdominali" (28/06/2016, Lucca, Italy)
- ESC Congress 2019, 2020, 2021
- ESH Meeting 2019, 2021
- Educational Course of the Italian Society of Arterial Hypertension (SIIA) (08/05/2019 Pisa; 12/06/2019, Milan; 29/05/2019, Roma, Italy): "Ipertensione Resistente: il percorso dalla corretta identificazione del paziente fino alla procedura di denervazione renale”.

Scientific societies:
- Executive Committees
  - Member of the Council of Hypertension (ESC).
  - Ordinary member of the Executive Committee of the Artery Society (2018-present).
  - Chair of the ESH Working Group on Vascular Function and Structure (2022-present).
  - Chair of the Artery Society Young Investigator Network (2017-2019).
  - Member of the Regional Board of the Italian Society for the Study of Atherosclerosis (SISA) (2017-2019).
- Working Groups
  - Member of the ESH Working Group “Hypertension and the Kidney”.
  - Member of the ESC-ACCA Study Group on Spontaneous Coronary Artery Dissection and of the ESC-EORP SCAD Registry.
  - Member of the ESC Working Group on Aorta and Peripheral Vascular Disease.
  - Member of the “Reference Values for Arterial Measurements Collaboration”.
- Memberships
  - Professional member of the European Society of Cardiology (ESC) since 2016.

Scientific referee for International, Peer Review Journals
- European Heart Journal; The Journal of Physiology; Nutrition, Metabolism and Cardiovascular Diseases; Cardiovascular Ultrasound; High Blood Pressure & Cardiovascular Prevention; Clinical and Experimental Rheumatology; Journal of the American Heart Association; Diabetology & Metabolic Syndrome; The Journal of Clinical Hypertension; BMC Nephrology; Sleep Medicine; EHJ-Cardiovascular Imaging; Frontiers in Cardiovascular Medicine; Blood Pressure.

Member of Editorial Board of International, Peer Review Journals
- Artery Research, Hypertension, Hypertension Research

Publications:

She is author of 276 publications, with a H-index of 35 and >4900 citations (Source Web of Science 04/09/2023), among which 162 full articles on Pubmed-indexed peer-reviewed international journals (https://www.ncbi.nlm.nih.gov/myncbi/1nCJlpmiKxgkH/bibliography/public/) and of 8 book chapters.

Peer-reviewed articles:


Book chapters


