

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:

- 1) Gerds E, Sudano I, Brouwers S, Borghi C, **Bruno RM**, Ceconi C, Cornelissen V, Diévert F, Ferrini M, Kahan T, Løchen ML, Maas AHEM, Mahfoud F, Mihailidou AS, Moholdt T, Parati G, de Simone G. [Sex differences in arterial hypertension](#). *Eur Heart J*. 2022 Dec 7;43(46):4777-4788. doi: 10.1093/eurheartj/ehac470.
- 2) Barbato E, Azizi M, Schmieder RE, Lauder L, Böhm M, Brouwers S, **Bruno RM**, Dudek D, Kahan T, Kandzari DE, Lüscher TF, Parati G, Pathak A, Ribichini FL, Schlaich MP, Sharp ASP, Sudano I, Volpe M, Tsioufis C, Wijns W, Mahfoud F. [Renal denervation in the management of hypertension in adults. A clinical consensus statement of the ESC Council on Hypertension and the European Association of Percutaneous Cardiovascular Interventions \(EAPCI\)](#). *Eur Heart J*. 2023 Apr 17;44(15):1313-1330. doi: 10.1093/eurheartj/ehad054.
- 3) Spronck B, Terentes-Printzios D, Avolio AP, Boutouyrie P, Guala A, Jerončić A, Laurent S, Barbosa ECD, Baulmann J, Chen CH, Chirinos JA, Daskalopoulou SS, Hughes AD, Mahmud A, Mayer CC, Park JB, Pierce GL, Schutte AE, Urbina EM, Wilkinson IB, Segers P, Sharman JE, Tan I, Vlachopoulos C, Weber T, Bianchini E, **Bruno RM**; Association for Research into Arterial Structure and Physiology (ARTERY), the European Society of Hypertension Working Group on Large Arteries, European Cooperation in Science and Technology (COST) Action VascAgeNet, North American Artery Society, ARTERY LATAM, Pulse of Asia, and Society for Arterial Stiffness—Germany-Austria-Switzerland (DeGAG). [2024 Recommendations for Validation of Noninvasive Arterial Pulse Wave Velocity Measurement Devices](#). *Hypertension*. 2024 Jan;81(1):183-192. doi: 10.1161/HYPERTENSIONAHA.123.21618. Epub 2023 Nov 17.
- 4) **Bruno RM**, Marais L, Khettab H, Lorthioir A, Frank M, Jeunemaitre X, Laurent S, Boutouyrie P, Azizi M. [Deep Vascular Phenotyping in Patients With Renal Multifocal Fibromuscular Dysplasia](#). *Hypertension*. 2019 Feb;73(2):371-378. doi: 10.1161/HYPERTENSIONAHA.118.12189. PMID: 30624987
- 5) Laurent S, Chatellier G, Azizi M, Calvet D, Choukroun G, Danchin N, Delsart P, Girerd X, Gosse P, Khettab H, London G, Mourad JJ, Pannier B, Pereira H, Stephan D, Valensi P,

Cunha P, Narkiewicz K, **Bruno RM**, Boutouyrie P; SPARTE Investigators. [SPARTE Study: Normalization of Arterial Stiffness and Cardiovascular Events in Patients With Hypertension at Medium to Very High Risk](#). *Hypertension*. 2021 Sep;78(4):983-995. doi: 10.1161/HYPERTENSIONAHA.121.17579. Epub 2021 Aug 30.

CURRICULUM VITAE Rosa Maria BRUNO

Birth date : 17/06/1979 in Italy (Empoli, FI)

Work address : Centre de Recherche Cardiovasculaire de Paris – PARCC, INSERM U970
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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: “EffectS 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, confermatario”. (60K euro)

Clinical Research Protocols – Co-PI or sub-investigator

- MINDSHIFT (MSCA-ITN)(2021-present)(700K euro)
- CVENT: 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)
- SERACV 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) (4000K euro)
- SHARE (Stations at High Altitude for Research on the Environment) project, funded by Ev-K2-CNR
- Résamont2 (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)
- Best Poster Presentation on Blood Pressure at the 19th Meeting of the European Council for Cardiovascular Research Annual Meeting (2015)
- 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)
- Scientific Committee of the 1st Symposium of Ultra High Frequency Ultrasound in Translational Research (Paris, France, 10-11/09/2020)
- 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 March2016, 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 addominali" (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).
 - Secretary of the Young Investigator Group of the Italian Society of Essential Hypertension (SIIA) (2013-2017).
 - 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.
 - Member of the Italian Society of Essential Hypertension (SIIA) (2008-2019), of the American Heart Association (AHA) since (2008-2016), of the European Association of Cardiovascular imaging – EACVI 2012-2016, of the Artery Society since 2015, of the Italian Society for the Study of Atherosclerosis (SISA) (2015-2018), of the European Society of Hypertension (ESH) and the International Society of Hypertension (ISH) from 2017, of the Italian Society of Internal Medicine (SIMI) (2018-2020).

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/1nCJlpmiKxqkH/bibliography/public/>) and of 8 book chapters.

Peer-reviewed articles:

1. Climie RE, Alastruey J, Mayer CC, Schwarz A, Laucyte-Cibulskiene A, Voicehovska J, Bianchini E, **Bruno RM**, Charlton PH, Grillo A, Guala A, Hallab M, Hametner B, Jankowski P, Königstein K, Lebedeva A, Mozos I, Pucci G, Puzantian H, Terentes-Printzios D, Yetik-Anacak G, Park C, Nilsson PM, Weber T. Vascular ageing: moving from bench towards bedside. Eur J Prev Cardiol. 2023 Aug 21;30(11):1101-1117. doi: 10.1093/eurjpc/zwad028.
2. **Bruno RM**, Varbiro S, Pucci G, Nemcsik J, Lønnebakken MT, Kublickiene K, Schluchter H, Park C, Mozos I, Guala A, Hametner B, Seeland U, Boutouyrie P. Vascular function in hypertension: does gender dimension matter? J Hum Hypertens. 2023 Aug;37(8):634-643. doi: 10.1038/s41371-023-00826-w.

3. Moriconi D, Mengozzi A, Duranti E, Cappelli F, Taddei S, Nannipieri M, **Bruno RM**, Viridis A. The renal resistive index is associated with microvascular remodeling in patients with severe obesity. *J Hypertens.* 2023 Jul 1;41(7):1092-1099. doi: 10.1097/HJH.0000000000003434.
4. Alastruey J, Charlton PH, Bikia V, Paliakaite B, Hametner B, **Bruno RM**, Mulder MP, Vennin S, Piskin S, Khir AW, Guala A, Mayer CC, Mynard J, Hughes AD, Segers P, Westerhof BE. Arterial pulse wave modeling and analysis for vascular-age studies: a review from VascAgeNet. *Am J Physiol Heart Circ Physiol.* 2023 Jul 1;325(1):H1-H29. doi: 10.1152/ajpheart.00705.2022.
5. Bianchini E, Guala A, Golemati S, Alastruey J, Climie RE, Dalakleidi K, Francesconi M, Fuchs D, Hartman Y, Malik AEF, Makūnaitė M, Nikita KS, Park C, Pugh CJA, Šatrauskienė A, Terentes-Printizios D, Teynor A, Thijssen D, Schmidt-Trucksäss A, Zupkauskienė J, Boutouyrie P, **Bruno RM**, Reesink KD. The Ultrasound Window Into Vascular Ageing: A Technology Review by the VascAgeNet COST Action. *J Ultrasound Med.* 2023 May 6;. doi: 10.1002/jum.16243.
6. Sale A, Noale M, Cintoli S, Tognoni G, Braschi C, Berardi N, Maggi S, Maffei L. Long-term beneficial impact of the randomised trial 'Train the Brain', a motor/cognitive intervention in mild cognitive impairment people: effects at the 14-month follow-up. *Age Ageing.* 2023 May 1;52(5). doi: 10.1093/ageing/afad067.
7. Barbato E, Azizi M, Schmieder RE, Lauder L, Böhm M, Brouwers S, **Bruno RM**, Dudek D, Kahan T, Kandzari DE, Lüscher TF, Parati G, Pathak A, Ribichini FL, Schlaich MP, Sharp ASP, Sudano I, Volpe M, Tsioufis C, Wijns W, Mahfoud F. Renal denervation in the management of hypertension in adults. A clinical consensus statement of the ESC Council on Hypertension and the European Association of Percutaneous Cardiovascular Interventions (EAPCI). *Eur Heart J.* 2023 Apr 17;44(15):1313-1330. doi: 10.1093/eurheartj/ehad054.
8. Barbato E, Azizi M, Schmieder RE, Lauder L, Böhm M, Brouwers S, **Bruno RM**, Dudek D, Kahan T, Kandzari DE, Lüscher TF, Parati G, Pathak A, Ribichini FL, Schlaich MP, Sharp ASP, Sudano I, Volpe M, Tsioufis C, Wijns W, Mahfoud F. Renal denervation in the management of hypertension in adults. A clinical consensus statement of the ESC Council on Hypertension and the European Association of Percutaneous Cardiovascular Interventions (EAPCI). *EuroIntervention.* 2023 Mar 20;18(15):1227-1243. doi: 10.4244/EIJ-D-22-00723.
9. Podrug M, Koren P, Dražić Maras E, Podrug J, Čulić V, Perissiou M, **Bruno RM**, Mudnić I, Boban M, Jerončić A. Long-Term Adverse Effects of Mild COVID-19 Disease on Arterial Stiffness, and Systemic and Central Hemodynamics: A Pre-Post Study. *J Clin Med.* 2023 Mar 8;12(6). doi: 10.3390/jcm12062123.
10. Moriconi D, Nannipieri M, Armenia S, Boutouyrie P, Taddei S, **Bruno RM**. Morbid obesity is associated with hypertrophic outward remodeling and increased stiffness of small conduit arteries: An ultra-high frequency ultrasound study. *Nutr Metab Cardiovasc Dis.* 2023 Feb;33(2):408-415. doi: 10.1016/j.numecd.2022.11.002.
11. Parati G, Goncalves A, Soergel D, **Bruno RM**, Caiani EG, Gerdtts E, Mahfoud F, Mantovani L, McManus RJ, Santalucia P, Kahan T. New perspectives for hypertension management: progress in methodological and technological developments. *Eur J Prev Cardiol.* 2023 Jan 11;30(1):48-60. doi: 10.1093/eurjpc/zwac203.
12. Gerdtts E, Sudano I, Brouwers S, Borghi C, **Bruno RM**, Ceconi C, Cornelissen V, Diévarf F, Ferrini M, Kahan T, Løchen ML, Maas AHEM, Mahfoud F, Mihailidou AS, Moholdt T, Parati G, de Simone G. Sex differences in arterial hypertension. *Eur Heart J.* 2022 Dec 7;43(46):4777-4788. doi: 10.1093/eurheartj/ehac470.
13. Park JB, Sharman JE, Li Y, Munakata M, Shirai K, Chen CH, Jae SY, Tomiyama H, Kosuge H, **Bruno RM**, Spronck B, Kario K, Lee HY, Cheng HM, Wang J, Budoff M, Townsend R, Avolio AP. Expert Consensus on the Clinical Use of Pulse Wave Velocity in Asia. *Pulse (Basel).* 2022 Dec;10(1-4):1-18. doi: 10.1159/000528208.
14. **Bruno RM**, Pépin JL, Empana JP, Yang RY, Vercamer V, Jouhaud P, Escourrou P, Boutouyrie P. Home monitoring of arterial pulse-wave velocity during COVID-19 total or partial lockdown using connected smart scales. *Eur Heart J Digit Health.* 2022 Sep;3(3):362-372. doi: 10.1093/ehjdh/ztac027.
15. Adham S, Legrand A, **Bruno RM**, Billon C, Dalens V, Boutouyrie P, Mazzella JM, Gueguen S, Frank M, Mirault T, Jeunemaitre X. Assessment of arterial damage in vascular Ehlers-Danlos syndrome: A retrospective multicentric cohort. *Front Cardiovasc Med.* 2022;9:953894. doi: 10.3389/fcvm.2022.953894.
16. Boutouyrie P, Fayol A, Fortier C, Khettab H, Cristian R, Gencer U, Fouassier E, Mousseaux E, Derobertmeasure A, Leguy C, **Bruno RM**. Impact of 60 days of head-down bed rest on large arteries. *J Hypertens.* 2022 Oct 1;40(10):2058-2067. doi: 10.1097/HJH.0000000000003235.
17. Saladini F, Mancusi C, Bertacchini F, Spannella F, Maloberti A, Giavarini A, Rosticci M, **Bruno RM**, Pucci G, Grassi D, Pengo M, Muiesan ML. Differences in Diagnosis and Management of Hypertensive Urgencies and Emergencies According to Italian Doctors from Different Departments Who Deal With Acute Increase in Blood Pressure-Data from Gear (Gestione Dell'emergenza e Urgenza in ARea Critica) Study. *J Clin Med.* 2022 May 25;11(11). doi: 10.3390/jcm11112986.
18. Boutouyrie P, Climie RE, **Bruno RM**. Type 2 Diabetes Mellitus, Interaction Between Left Ventricle and Large Arteries. *Am J Hypertens.* 2022 May 10;35(5):388-390. doi: 10.1093/ajh/hpac007.
19. Meiburger KM, Marzola F, Zahnd G, Fata F, Loizou CP, Lainé N, Carvalho C, Steinman DA, Gibello L, **Bruno RM**, Clarenbach R, Francesconi M, Nicolaidis AN, Liebgott H, Campilho A, Ghotbi R, Kyriacou E, Navab N, Griffin M, Panayiotou AG, Gherardini R, Varetto G, Bianchini E, Pattichis CS, Ghiadoni L, Rouco J, Orkisz M, Molinari F. Carotid Ultrasound Boundary Study (CUBS): Technical considerations on an open multi-center analysis of computerized measurement systems for intima-media thickness measurement on common carotid artery longitudinal B-mode ultrasound scans. *Comput Biol Med.* 2022 May;144:105333. doi: 10.1016/j.combiomed.2022.105333.
20. Justin J, Fayol A, **Bruno RM**, Khettab H, Boutouyrie P. International Guidelines for Hypertension: Resemblance, Divergence and Inconsistencies. *J Clin Med.* 2022 Apr 1;11(7). doi: 10.3390/jcm11071975.
21. Álvarez-Bueno C, Cavero-Redondo I, **Bruno RM**, Saz-Lara A, Sequí-Dominguez I, Notario-Pacheco B, Martínez-Vizcaino V. Intima Media Thickness and Cognitive Function Among Adults: Meta-Analysis of Observational and Longitudinal Studies. *J Am Heart Assoc.* 2022 Mar;11(5):e021760. doi: 10.1161/JAHA.121.021760.

22. Saz-Lara A, **Bruno RM**, Cavero-Redondo I, Álvarez-Bueno C, Notario-Pacheco B, Martínez-Vizcaíno V. Association Between Arterial Stiffness and Blood Pressure Progression With Incident Hypertension: A Systematic Review and Meta-Analysis. *Front Cardiovasc Med*.2022;9:798934. doi: 10.3389/fcvm.2022.798934.
23. Persu A, Dobrowolski P, Gornik HL, Olin JW, Adlam D, Azizi M, Boutouyrie P, **Bruno RM**, Boulanger M, Demoulin JB, Ganesh SK, J Guzik T, Januszewicz M, Kovacic JC, Kruk M, de Leeuw P, Loeys BL, Pappaccogli M, Perik MHAM, Touzé E, Van der Niepen P, Van Twist DJL, Warchoł-Celińska E, Prejbisz A, Januszewicz A. Current progress in clinical, molecular, and genetic aspects of adult fibromuscular dysplasia. *Cardiovasc Res*. 2022 Jan 7;118(1):65-83. doi: 10.1093/cvr/cvab086
24. Bikia V, Fong T, Climie RE, **Bruno RM**, Hametner B, Mayer C, Terentes-Printzios D, Charlton PH. Leveraging the potential of machine learning for assessing vascular ageing: state-of-the-art and future research. *Eur Heart J Digit Health*. 2021 Dec 29;2(4):676-690. doi: 10.1093/ehjdh/ztab089. Epub 2021 Oct 18. PubMed PMID: 35316972; PubMed Central PMCID: PMC7612526.
25. van der Bruggen M, Spronck B, Bos S, Heusinkveld MHG, Taddei S, Ghiadoni L, Delhaas T, **Bruno RM**, Reesink KD. Pressure-Corrected Carotid Stiffness and Young's Modulus: Evaluation in an Outpatient Clinic Setting. *Am J Hypertens*. 2021 Aug 9;34(7):737-743. doi: 10.1093/ajh/hpab028.
26. Laurent S, Agabiti-Rosei C, **Bruno RM**, Rizzoni D Microcirculation and Macrocirculation in Hypertension: A Dangerous Cross-Link? Hypertension. 2022 Jan 5:HYPERTENSIONAHA12117962. doi: 10.1161/HYPERTENSIONAHA.121.17962.
27. Gopcevic KR, Gkaliagkousi E, Nemcsik J, Acet Ö, Bernal-Lopez MR, **Bruno RM**, Climie RE, Fountoulakis N, Fraenkel E, Lazaridis A, Navickas P, Rochfort KD, Šatrauskienė A, Zupkauskienė J, Terentes-Printzios D. Pathophysiology of Circulating Biomarkers and Relationship With Vascular Aging: A Review of the Literature From VascAgeNet Group on Circulating Biomarkers, European Cooperation in Science and Technology Action 18216. *Front Physiol*. 2021 Dec 14;12:789690. doi: 10.3389/fphys.2021.789690. eCollection 2021.
28. Latosinska A, **Bruno RM**, Pappaccogli M, Bacca A, Beauloye C, Boutouyrie P, Khettab H, Staessen JA, Taddei S, Toubiana L, Vikkula M, Mischak H, Persu A. Increased Collagen Turnover Is a Feature of Fibromuscular Dysplasia and Associated With Hypertrophic Radial Remodeling: A Pilot, Urine Proteomic Study. *Hypertension*. 2022 Jan;79(1):93-103. doi: 10.1161/HYPERTENSIONAHA.121.18146. Epub 2021 Nov 17.
29. Laurent S, Chatellier G, Azizi M, Calvet D, Choukroun G, Danchin N, Delsart P, Girerd X, Gosse P, Khettab H, London G, Mourad JJ, Pannier B, Pereira H, Stephan D, Valensi P, Cunha P, Narkiewicz K, **Bruno RM**, Boutouyrie P; SPARTE Investigators.SPARTE Study: Normalization of Arterial Stiffness and Cardiovascular Events in Patients With Hypertension at Medium to Very High Risk. *Hypertension*. 2021 Sep;78(4):983-995. doi: 10.1161/HYPERTENSIONAHA.121.17579.
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