



ARTERY
22

19-22 October 2022
Centre de Congrès Prouvé
Nancy, France
www.arterysociety.org



WEDNESDAY 19 OCTOBER 2022

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| | Registration |
| 16.00 - 18.00 | Master classes |
| | The management of patients with heart failure: the present and the future, Faiez Zannad |
| | Discovery and translationnel science in atherosclerosis, Jean-Baptiste Michel |
| | Methodological approaches of arterial stiffness in humans, Rosa-Maria Bruno |
| 16.00 | Executive Committee Meeting |
| 17.00 | Scientific Council meeting |
| 18.00 | Resolution of vascular inflammation, resolvin pathways, Magnus Bäck |
| 18.30 | Break & exhibition viewing |
| 18.45 | Editorial Board Meeting Artery Research |

THURSDAY 20 OCTOBER 2022

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| 07.30 | Registration |
| 08.30 | COST Action VascAgeNet |
| 09.30 | Special session: Position paper: PWV in clinical practice |
| | Athanase Protogerou / Charalambos Vlachopoulos / Thomas Weber |
| 10.30 | Break & exhibition viewing |
| 11.00 | Welcome address |
| 11.15 | Novel molecular pathways for discovering stiffness-targeted drugs, Pierre Boutouyrie |



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| 11.45 | Oral Session I (Young investigator award 1) |
| | 1.1 Microstructural deterioration drives progressive functional loss in Marfan syndrome aneurysms, Cristina Cavinato |
| | 1.2 Impaired β 2-adrenergic endothelium-dependent vasodilation is reversed by phosphodiesterase inhibition in patients previously hospitalized with COVID-19, Luca Faconti |
| | 1.3 How does mechanical stress affect gene expression in human aortic smooth muscle cells? Claudie Petit |
| | 1.4 Pentosan polysulfate, an aggrecanase inhibitor modulates arterial stiffness in spontaneously hypertensive rats, Aleksandra Klosinska |
| | 1.5 Radial-digital pulse wave velocity: stiffness of small conduit arteries increases after nitroglycerin administration, Catherine Fortier |
| | 1.6 Portable and low-cost ultrasound device for real-time carotid pulse wave velocity, Kiran V Raj |
| 12.45 | Role of perivascular adipose tissue on arterial function and structure, Marisol Fernandez-Alfonso |
| 13.15 | Lunch |
| 13.45 | Facilitated poster and exhibition viewing |
| 14.30 | Relationships between components of blood pressure and cardiovascular events in patients with chronic coronary syndromes and Hypertension: Does arterial stiffness explain the J-curve? Emmanuelle Vidal Petiot |
| 15.00 | Career development lectures |
| | Agne Laucyte-Cibulskiene, Froso Sophocleous, Ryan Pewowaruk |
| 16.00 | Refreshments, poster and exhibition viewing |
| 16.00 | ARTERY Young Investigator business meeting |
| 16.30 | Joint Session with LATAM Artery, North American Artery, Pulse of Asia, Alexandre Vallee |
| 17.00 | Artificial intelligence and vascular hemodynamics |
| | Coronary artery disease diagnosis by artificial neural networks, to be confirmed |
| | Machine learning for assessment of vascular ageing, Vasiliki Bikia |
| | Estimating PWV from the radial waveform using AI & Machine learning, to be confirmed |



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| 17.30 | Sex-specific differences in the outcomes of abdominal aortic aneurysms, Janet Powell |
| 18.00 | Moderated poster session 1 and welcome networking reception - science and wine |
| 20.00 | ARTERY Young investigator networking evening |

FRIDAY 21 OCTOBER 2022

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| 07.00 | ARTERY22 Run |
| 07.00 | Registration |
| 08.00 | Refreshments, poster and exhibition viewing |
| 09.00 | Oral session II (joint ECCR/ARTERY) |
| | 2.1 New approach in the design of a human tissue engineered vascular graft and preliminary studies in arterial bypass models in the pig, Reine El Omar |
| | 2.2 Inhibition of atherosclerotic plaque calcification by Omega-3 polyunsaturated fatty acids through the resolvin E1 receptor ChemR23, Hildur Arnardottir |
| | 2.3 Reduced micromechanical stiffness of large diameter Abdominal Aortic Aneurysm (AAA) wall tissue, Riaz Akhtar |
| | 2.4 To be confirmed |
| | 2.5 To be confirmed |
| | 2.6 To be confirmed |
| 10.00 | Moderated poster session 2 |
| 10.45 | Refreshments, poster and exhibition viewing |
| 11.15 | Lecture in memory Nico Westerhof |
| | Personal memories, Nikolaos Stergiopoulos |
| | Modeling of the arterial circulation: A primer for non-bioengineers, Patrick Segers |



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| 11.45 | Oral session III (Young investigator award 2) |
| | 3.1 Reservoir-wave parameters and cardiovascular prediction: Analysis of the population-based CARTaGENE cohort, Louis-Charles Desbiens |
| | 3.2 Raised arterial stiffness at 24-26 weeks of gestation is associated with the development of hypertension in pregnancy, Pritika Dutta |
| | 3.3 C-C chemokine ligand 5 from subcutaneous adipose tissue has a central role in vascular aging, Laura Le Pelletier |
| | 3.4 Cardiovascular risk in adolescents translates into lower carotid intima-media thickness and better distensibility in young adults - The KiGGS2-cohort, Karsten Königstein |
| | 3.5 Evaluation of skin microvascular dysfunction with Laser Speckle Contrast Analysis in prediabetes, Stamatina Lamprou |
| | 3.6 Arterial stiffness assessment by pulse arrival time: An in silico proof of concept, Jingyuan Hong |
| 12.45 | Lunch & exhibition viewing |
| 13.15 | Young Investigator session |
| 14.15 | Oncology and CV complications |
| | Targeting cytokines and immune checkpoints in cancer patients, Hafid Ait-Oufella |
| | Cardiac metabolism in cancer survivals, Margaret Cunningham |
| | Oncology and CV complications, to be confirmed |
| 15.15 | Refreshments, poster and exhibition viewing |
| 15.45 | Oral session IV |
| | 4.1 Prevalence and determinants of vascular aging: the LEAD study, Kathrin Danninger |
| | 4.2 Hydrochlorothiazide, but not chlortalidone nor furosemide, enhances vascular calcification in CKD rats with mineral bone disorder, Mohsen Agharazii |
| | 4.3 Relationships between excessive daytime sleepiness, arterial stiffness, and physical activity. The Atherosclerosis Risk in Communities (ARIC) Study, Michelle Meyer |
| | 4.4 Greater intrinsic arterial wall stiffness and its unfavourable trajectory over time in type 2 diabetes, Kunihiko Aizawa |
| | 4.5 The bidirectional longitudinal relationships between arterial stiffness and hypertension and those between arterial stiffness and diabetes mellitus, Hirofumi Tomiyama |
| | 4.6 Characterization of the sex-specific pattern of angiogenesis and lymphangiogenesis in aortic stenosis, Lara Matilla Cuenca |



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| 16.45 | Focus update: The gut-stiffness axis |
| | Clinical overview of Crohn disease - new concepts-new immuno-treatments, Laurent Peyrin Biroulet |
| | Vascular alterations in inflammatory bowel diseases, Veronique Regnault |
| 17.15 | Neutrophil extracellular traps and thrombosis, Kimberley Martinod |
| 17.45 | ARTERY Annual Business Meeting |
| 19.00 | Break |
| 20.00 | ARTERY Conference Dinner with award ceremony |

SATURDAY 22 OCTOBER 2022

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|--------------|--|
| 08.15 | Registration |
| 08.30 | Refreshments, poster and exhibition viewing |
| 09.00 | Update: Cuffless BP monitoring: ready for prime time ? |
| | Validation of an optical bracelet, Gregoire Wuerzner |
| | The bioengineer's view, Alberto Avolio |
| | The validation process, George Stergiou |
| | Discussion |
| 10.15 | Focus update: Young investigators |
| | Telomeres : Basic and clinical point of view, Simon Toupance |
| | The ageing aorta: Endothelium dysfunction, Sofie De Moudt |
| | Cardiorenal syndrome, Natalia Lopez-Andres |
| 10.45 | Refreshments, poster and exhibition viewing |



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| 11.15 | Oral session V |
| | 5.1 Arterial stiffness predicts sustained hypertension in patients with high normal blood pressure/grade 1 hypertension, Enrique Rodilla |
| | 5.2 Awareness and perceptions of health care providers and researchers on vascular ageing: Quantitative Survey Results, Chloe Park |
| | 5.3 Excessive pulsatile energy in carotid arteries is associated reduced cognitive function: Pulsatile and steady state arterial hemodynamics in two community-based cohorts, Hao-min Cheng |
| | 5.4 Early vascular aging associated with sympathetic hyperactivity in obese hypertensive individuals with moderate to severe obstructive sleep apnea, Mario Neves |
| | 5.5 Acute vasopressin neutralization with the aptamer NOX-F37 improves immediately cardiac but not peripheral endothelial dysfunction in rats with chronic heart failure, Paul Mulder |
| | 5.6 Hypertensive aortic remodelling as induced by adrenergic receptor activation versus renin-angiotensin-aldosterone system activation in mice, Bart Spronck |
| 12.15 | McDonald Lecture, Peter Nilsson |
| 12.45 | Lifetime Achievement Award, Alberto Avolio |
| 13.05 | Concluding remarks and close of conference |
| 13.20 | Light lunch |
| 14.15 | End of Conference |