

SCIENTIFIC ORGANIZING COMMITTEE

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GENERAL INFORMATION



Aula Magna, Dept. of Pharmacy, Via Bonanno Pisano 12, Pisa



22nd November, 2024

Registration: Registration is free, but it is necessary to send an e-mail to Dr. Andrea Stocco: andrea.stocco@unipi.it

Ageing and Cardiovascular System: A Multidisciplinary Approach



Interdepartmental Research Center of Biology and Pathology of Ageing
Department of Translational Research and of New Surgical and Medical Technologies

University of Pisa

22nd November 2024

**Aula Magna, Department of Pharmacy
Via Bonanno Pisano, 12 - Pisa**



RATIONALE AND OBJECTIVES

Addressing the ageing of the general population is a global challenge that involves both developed and developing countries. It is therefore crucial to ensure healthy, active and sustainable ageing for national health systems by keeping the elderly population in optimal health and preventing the onset of cardiometabolic diseases. Ageing, oxidative stress (OS) and inflammation play a key role in the development of cardiovascular diseases (CVD), the main cause of morbidity and mortality worldwide. The concept of “Oxi-Inflamm-Aging” is based on the observation that low-grade oxidative and inflammatory processes, commonly seen in the elderly and others, contribute to CV risk. Furthermore, perivascular adipose tissue (PVAT), which is in close physical contact with the vessel, is crucial in preserving healthy vascular function. Its premature ageing is associated with tissue metabolic dysfunction and pro-inflammatory phenotype. Understanding the mechanisms linking inflammation and ageing, as well as those implicated in endothelial dysfunction, OS, genomic instability and PVAT alteration could reveal new therapeutic targets to sustain cardiovascular “health” and provide options for addressing the ageing population worldwide. The conference, with the participation of leading experts, aims to examine and understand the key processes of ageing at the cardiovascular and metabolic levels and to identify pharmacological strategies to prevent and slow them down.

FACULTY

VALERIE B. SCHINI-KERTH
Full Professor of Pharmacology, Faculty of Pharmacy, *University of Strasbourg*
Head of UR 3074 Translational CardioVascular Medicine, Centre de Recherche en Biomédecine de Strasbourg (CRBS), INSERM - Strasbourg (France)
Founder and Co-director of the International Master of Biomedicine (IMBM), *University of Strasbourg*
Chair of the International Union of Basic and Clinical Pharmacology (IUPHAR) Natural Products Section

ALMA MARTELLI
Associate Professor of Pharmacology, Department of Pharmacy, *University of Pisa*
Director of the School of Specialisation in Hospital Pharmacy, *University of Pisa*
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**Ageing and Cardiovascular System:
A Multidisciplinary Approach**

Programme	Friday, 22 nd November 2024
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- h. 2:30 PM
Welcoming reception
- h. 2:45 PM
Introduction and Institutional Greetings
Moderators: *Dr. Eugenia Belcastro and Pr. Gabriella Cavallini, University of Pisa*
- h. 3:15 PM
Targeting Senescent Endothelial Cells to Improve Vascular Health
Pr. Valérie B. Schini-Kerth, University of Strasbourg
- h. 3:45 PM
Metformin-Isothiocyanate (Met-ITC): A New Multitarget Pharmacological Approach in the Prevention of Endothelial Dysfunction Associated with Diabetes
Pr. Alma Martelli, University of Pisa
- h. 4:15 PM
Coffee Break
- h. 4:30 PM
Ageing of Perivascular Tissue Associated with Meta-Inflammatory Shifts
Dr. Alessandro Mengozzi, University of Pisa
- h. 5:00 PM
Discussion and Conclusions