

The fourth edition of the Winter School within the International PhD Program Arterial Hypertension and Vascular Biology (ARHYVAB) of the University of Padua, a Joint PhD with the University of Rome Sapienza and the University of Pisa, is now open. Anybody interested in gaining deeper insight into the pathophysiology and treatment of arterial hypertension is welcome! I am proud to present this initiative that, again this year, recruited world-class speakers who have kindly accepted to discuss their innovative views on Arterial Hypertension and related topics in a true international and interdisciplinary environment. This is in line with *Internalization*, which is one leitmotiv of the University of Padua, as underlined over the 800 years of its history by the motto *Universa Universis Patavina Libertas*.

A session will be devoted to the successful EU funded MINDSHIFT program (*Mechanistic Integration of vascular and endocrine pathways for Subtyping Hypertension: an Innovative network approach for Future generation research Training*), a network that has its basis also in the ARHYVAB. The Past ARHYVAB Coordinator Prof. Gian Paolo Rossi will retrace the 20 years of the PhD Program and will explain how it was the basis to conceive a European School on the Hypertension research. The members of the MINDSHIFT Network Committee will describe the aims of the Network, which involves the leading Universities of Maastricht, Glasgow, Paris and Madrid, and then they will discuss the targets reached and what is urgent to do to constitute a postgraduate EU program in Hypertension.

My sincere thanks to all Members of the Faculty Board for their invaluable support to the ARHYVAB PhD Program. My gratitude is expressed to the University of Padua and the Department of Medicine–DIMED, which generously supported the Winter School.

Hoping that the ARHYAB Winter School will be the fourth of a long successful series, I look forward to seeing from you in Bozen.

Teresa M. Seccia

Coordinator of the PhD Program Arterial Hypertension and Vascular Biology, University of Padua

Venue:

Waaghaus (Casa della Pesa), Laubengasse, 19A Via Portici 19A
39100 Bozen -Bolzano

Who can apply

PhD students and Postdocs, members of the EU MINDSHIFT Program, EU MSCA-COFUND Program, residents in Internal Medicine, Nephrology and Radiology, students of the Course in Medicine, and anybody interested to the topic. Attendance is restricted to 35 people. Registration fee: 250 euros (200 euros for students of the Course in Medicine).

Registration at <https://www.sabiwork.it/evento/winter-school/>

Deadline for registration: February 28th, 2025

Accommodation can be arranged by yourself. There are several hotels and hostels in Bozen.

Scientific contacts: teresamaria.seccia@unipd.it; brasilina.caroccia@unipd.it.

Organizing Secretary: segreteria@sabiwork.it.

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2025 Winter School in Arterial Hypertension

International PhD Program in Arterial Hypertension and Vascular Biology (ARHYVAB) University of Padua

A Joint PhD Program with the University of Rome Sapienza and University of Pisa

**‘Shaping a World-class University’
Bozen, March 24th – 28th, 2025**



Coordinator: Teresa M. Seccia



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DEGLI STUDI
DI PADOVA**



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DAY 1 – March 24thth

04:00-07:00 p.m.

Teresa M. Seccia (Padua) *Welcome and Introduction to the Winter School*

Gian Paolo Rossi (Padua) *ESC Guidelines for the treatment of elevated blood pressure: the novelties*

Ana Briones (Madrid) *Inflammation in obesity and hypertension*

Dario Gregori (Padua) *Artificial Intelligence: what tools could be useful for your project*

Loira Leoni (Padua) *Electrical cardioversion in the hypertensive patient with atrial fibrillation*

Discussion

DAY 2 – March 25th

09:00-10:15 a.m.

Michel Burnier (Lausanne) *Adherence of physicians to the guidelines: how it is relevant in hypertension*

Anthony Heagerty (Manchester) *The choice of the appropriate journal: why you should avoid the paper mills*

Discussion

10:15-12:00 a.m.

Gian Paolo Rossi (Padua)

The PhD Course in Arterial Hypertension and Vascular Biology (ARHYVAB) at the University of Padua: A long 20 year history

The European Network MINDSHIFT (*M*echanistic *I*ntegration of vascular aND endocrine pathways for *S*ubtyping *H*ypertension: an *I*nnovative network approach for *F*uture generation research *T*raining): An excellence in hypertension

Thomas Unger (Maastricht) *Unmet needs in hypertension research and the advantage of an inter-disciplinary EU network*

Koen Reesink (Maastricht) *MINDSHIFT: From the conception to the results and remaining questions*

MINDSHIFT ESRs: *The personal contributions to the MINDSHIFT project*

Discussion

12:15-05:00 p.m. Networking, groupwork and leisure time

04:30-07:00 p.m.

Reinhold Kreutz (Berlin) *Treatment of arterial hypertension in older people: slaloming through guidelines*

Thomas Unger (Maastricht) *A cuddle hormone's contribution to the stress response*

Matthias Barton (Zurich) *The Endothelins' system*

Michel Paques (Paris) *Retinal damage in hypertension*

Casper Schalkwijk (Maastricht) *Methylglyoxal in arterial hypertension*

Discussion

DAY 3 – March 26th

09:00-11:30 a.m.

Jan Danser (Rotterdam) *The novel antihypertensive drugs*

Jordi Heijman (Graz) *Inflammation in atrial fibrillation.*

Abraham Kroon (Maastricht) *Renal denervation in arterial hypertension: an update*

Jun Yang (Monash) *Diagnosing primary aldosteronism: why and how?*

Discussion

11:30-04:00 p.m. Networking, groupwork and leisure time

04:00-06:30 p.m.

Celso Gomez-Sanchez (Mississippi, MS) *Immunochemical techniques: what we can still learn from these tools*

Giorgia Pallafacchina (Padua) *Calcium measurement and tracking in living cells: why they are relevant*

Vanessa Checchetto (Padua) *Potassium channels: an overview*

Discussion

DAY 4 – March 27th

09:00-11:15 a.m.

Jan Danser (Rotterdam) *The renin-angiotensin-aldosterone system: an update*

Maria-Christina Zennaro (Paris) *Genetics of Primary Aldosteronism*

Sonali Shah (Monash) *An update on low-renin hypertension*

Elena Poggio (Padua) *Cell-cell fusion assays: split-proteins come into play*

Cristina Chimenti (Rome) *Left ventricular hypertrophy: from hypertension to cardiomyopathies*

Discussion

11:15-04:00 p.m. Networking, groupwork and leisure time

04:00-05:00 p.m.

Mikel Garcia Marcos (Boston) *How to interrogate GPCR with a biosensor platform*

Giacomo Strapazzon (Bozen) *Mechanisms of blood pressure regulation at high altitude*

05:30-07:00 p.m. Terza missione

Meeting and aperitif with the citizens of Bozen

(Italian language)

DAY 5 – March 28th

09:00-12:00 a.m.

Leon Schurgers (Maastricht) *Mechanisms of vascular calcification*

Alexandre Persu (Louvain) *Fibromuscular dysplasia: what is new?*

Andrea Cignarella (Padua) *The interaction between the pharmacologist and the hypertension specialist. Interactive discussion on clinical cases.*

Margherita Morpurgo (Padua) *Phage display technique: advantages and caveats*

Contributions from the participants (feedback, poster and/or presentations)

Teresa M. Seccia (Padua) *Closing session and adjourn*