Internalization is one of the leitmotiv of the University of Padua whose motto over the 800 years of its history has been *Universa Universis Patavina Libertas*. Along this line, the University has allocated some resources to promote several initiatives, including visiting professors and scientist programs, and the Winter Schools.

With over 25 million deaths and at least a similar figure of cardiovascular events, Arterial Hypertension is the leading cause of death and premature disability worldwide. Notwithstanding this, there are no postgraduate programs in Hypertension in EU.

The Winter School on Hypertension has been conceived within the International PhD Program in Arterial Hypertension and Vascular Biology (ARHYVAB), which was established 20 years ago at the University of Padua and has been the basis for starting a European School on Hypertension research. The latter has successfully managed to receive funds from the EU Marie Skłodowska-Curie initiative within the MINDSHIFT program in conjunction with other 5 leading institutions in Europe.

Therefore, we are proud to present this Winter School that has recruited world-class speakers who have kindly accepted to present their innovative views on Arterial Hypertension and related topics in a true international and interdisciplinary environment. Unfortunately, considering the still on-going Covid-19 pandemia, most talks need to be online.

The School is open to all PhD students, residents and medical students who are interested in gaining deeper insight into the pathophysiology and treatment of arterial hypertension, a small number of whom will be in presence.

We would like to express our gratitude to the University of Padua and the Department of Medicine–DIMED and to FORICA-Onlus, which have granted supported the School.

Hoping that the 2022 Winter School will be the first of a long successful series, we look forward to seeing from you in Brixen.

Gian Paolo Rossi and Teresa M. Seccia

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**Venue:**

Gruner Baum Hotels  
Stufels 11 / Via Stufles 11  
39042 Brixen / Bressanone, BZ, Italy

**Who can apply**

PhD students and Postdocs, members of the EU MINDSHIFT Program, residents in Endocrinology, Internal Medicine and Emergency Medicine, students of the Course in Medicine are welcome to apply and participate.

Please note that the attendance *in presence* is restricted to 20 people.

Online attendance is restricted to 50 people, on a first come first served basis.

Participation to the online sessions is free.

Room reservation. We reserved a limited number of rooms have at the Youth Hotel at the costs reported at https://www.ostello.bz/it/bressanone. For availability of the reserved rooms, please contact bressanone@ostello.bz. Alternatively, you can arrange accommodation by yourself.

Scientific and organizing contact: teresamaria.seccia@unipd.it

Deadline for registration: March, 6th 2022

The Winter School has been funded by the University of Padua within the EU Program ‘Shaping a World-class University’, the Department of Medicine – DIMED and FORICA-onlus.

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2022 Winter School  
International PhD Program  
Arterial Hypertension and Vascular Biology (ARHYVAB)  
"Shaping a World-class University"

**Coordinators**  
Gian Paolo Rossi and Teresa M. Seccia

Brixen, March 14th - 18th, 2022
DAY 1 – March 14th
08:30-09:00
Gian Paolo Rossi (University of Padua)
Welcome and Introduction
09:00-09:30 a.m.
Christina Zennaro (University of Paris)
The ENSAT Study: Design and main results
09:30-10:00 a.m.
Marko Poglisch (Attoquant Diagnostics GmbH, Wien)
New technological tools: a diagnostic gain or unduly excess of complexity?
10:00-10:30 a.m.
Livia Lenzini (University of Padua)
Genetics of hypertension
04:00-04:30 p.m. Clinical case and discussion
04:30-05:00 p.m.
Giulio Ceolotto (University of Padua)
NGS: a tool for identifying new and unknown mutations

DAY 2 – March 15th
08:00-08:30 a.m.
Thomas Unger (University of Heidelberg)
Treatment of hypertension: What can we learn from recent Hypertension Guidelines?
08:30-09:00 a.m.
Carla Scaroni (University of Padua)
Cushing disease
09:00-09:30 a.m.
Abraham A. Kroon (University of Maastricht)
Renal artery stenosis
05:00-05:30 p.m.
Rosario Rizzuto (University of Padua)
Mitochondria and cardiovascular diseases
05:30-06:00 p.m. Clinical case and discussion

DAY 3 – March 16th
08:00-08:30 a.m.
Matthias Barton (University of Zurich)
Endothelium as a target of arterial hypertension
08:30-09:00 a.m.
Andrea Frustaci (University La Sapienza Rome)
Cardiac damage in arterial hypertension: insight from myocardial biopsies
09:30-10:00 a.m.
Gian Paolo Rossi (University of Padua)
Primary hypertension: a fake entity?
10:00-10:30 a.m.
Agatella Barchitta (University Hospital Padua)
Assessment of coronary sinus for estimating congestion
05:00-05:30 p.m.
Andrea Cignarella (University of Padua)
Anticancer drugs and hypertension
04:00-04:30 p.m.
Marcello Rattazzi (University of Padua)
Vascular calcification in arterial hypertension
04:30-05:00 p.m.
Anand Vaidya (Brigham and Women's Hospital, Harvard University, Boston)
Primary aldosteronism
05:00-05:30 p.m.
Jens Marc Titze (University of Singapore)
Novel views on salt metabolism and implications for cardiovascular diseases
06:00-06:30 p.m.
Giacomo Rossitto (University of Padua)
Interstitium and lymphatics in cardiovascular disease
06:30-07:00 p.m.
Luis Rios-Nogales (Rational Vaccines Inc., Boston; CureVac AG., Tubingen)
The drug development process: what is needed for a successful drug

DAY 4 – March 17th
09:00-09:30 a.m.
Ana Briones (University of Madrid)
Vascular damage in arterial hypertension
09:30-10:00 a.m.
Teresa M. Seccia (University of Padua)
Atrial fibrillation, arterial hypertension and aldosterone: The triple trouble
09:00-09:30 a.m.
Out of the ivory tower: The experts answer to the questions on arterial hypertension.
Italian language
09:00-10:00 a.m.
Closing session and adjourn

DAY 5 – March 18th
08:00-08:30 a.m.
Gian Paolo Rossi (University of Padua)
Clinical research in arterial hypertension: clinical trials
09:00-10:00 a.m.
Out of the ivory tower: The experts answer to the questions on arterial hypertension.
Italian language
04:00-04:30 p.m.
Marcello Rattazzi (University of Padua)
Vascular calcification in arterial hypertension