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

*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.

# 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

UNIVERSITÀ DEGLI STUDI DI PADOVA

**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*

05:00-05:30 p.m. Clinical case and discussion

**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*

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 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*

Closing session and adjourn