Research options available for topic B

Research topic(s) offered by every Doctoral Course involved in UNIPhD are frameworks within which every applicant has to present an original research project in collaboration with a Supervisor at the University of Padua.

Potential Supervisors at Unipd have proposed the following detailed research options, which are related to the research topic. They are offered as a guideline and should facilitate your contact with potential Supervisors. Supervisors' e-mail is specified in every research option table. You are welcome to contact them directly.

Note that this research option list is not at all exhaustive and, within the topic you have chosen, you are free to propose a different research project.

Doctoral Course	**ARTERIAL HYPERTENSION AND VASCULAR BIOLOGY**
Macro-area	Medical and Biomedical Sciences
Department name	Department of Medicine
Webpage	*https://www.medicinadimed.unipd.it/corsi/dottorati-di-ricerca/dottorati-internazionali/international-phd-program-arterial-hypertension*
Research topic B	**Detection of secondary arterial hypertension: focus on primary aldosteronism** Secondary forms of arterial hypertension are markedly undetected leaving millions of people exposed to the ominous consequences of high cardiovascular risk in Europe. Aim of this research topic is to dissect the molecular mechanisms of primary aldosteronism, which is the most common form of secondary hypertension.
Link to the UNIPhD Call (Academic Year 2023/2024)	*https://uniphd.eu*
Latest Update	*29.11.2022*
#Number of available Research Options	*2* *Scroll down to see all the Research Options*

1 Research Option Description

Doctoral Course	**Arterial Hypertension and Vascular Biology (ARHYVAB)**
Department name	Department of Medicine - DIMED
Research topic B	Detection of secondary arterial hypertension: focus on primary aldosteronism
Research option	Molecular mechanisms underlying primary aldosteronism
Supervisor	Supervisor: Prof. Gian Paolo Rossi, MD, FACC, FAHA gianpaolo.rossi@unipd.it Members of the research group: Prof. Teresa Maria Seccia, MD, PhD Dr. Giacomo Rossitto, MD, PhD Dr. Brasilina Caroccia, BSc, PhD Dr. Livia Lenzini, BSc, PhD Dr. Giulio Ceolotto, BSc, PhD Prof. Ana Briones, BSc, PhD (Universidad Autonoma de Madrid) Prof. Koen Reesink, PhD (CARIM, University of Maastricht)
Webpage	https://www.unipd.it/dottorato/arterial-hypertension-vascular-biology
Context of the research activity and objectives	Secondary forms of arterial hypertension are markedly undetected leaving millions of people exposed to the ominous consequences of high cardiovascular risk in Europe. Aim of this research topic is to dissect the molecular mechanisms of primary aldosteronism, which is the most common form of secondary hypertension. The research will be focused on ion channels and plasma receptors involved in the aldosterone synthesis in the aldosterone producing adenoma.
Infrastructures	Facilities at DIMED include laboratories equipped with devices for clinical, molecular and cellular diagnostics, and libraries with PC workstations. Online access to the most scientific journals, international databases and biostatistics software is provided. Collaborations with other departments at UNIPD and several European Universities will allow easy access to all facilities needed for the project.
Skills and competencies for the development of the activity	• Qualification: MD, Biologist or Biotechnologist. • Experience: The candidate should have experience in molecular biology basic techniques. • Abilities: Disposition to generate actions to responsibly analyze and solve problems in different situations. • Attitude and disposition: Attitude to critically thinking and disposition to work within a team.
Training offer	Lectures, weekly research meetings and JC; one course on writing in scientific English and one in biostatistics.
Possible Secondments	University of Maastricht; Universidad Autonoma de Madrid; Attoquant Diagnostics, Gmbh, Vienna; Diasorin SpA, Saluggia

2 Research Option Description

Doctoral Course	**Arterial Hypertension and Vascular Biology (ARHYVAB)**
Department name	Department of Medicine - DIMED
Research topic B	Detection of secondary arterial hypertension: focus on primary aldosteronism
Research option	How to improve detection of primary aldosteronism
Supervisor	Supervisor: Prof. Gian Paolo Rossi, MD, FACC, FAHA gianpaolo.rossi@unipd.it Members of the research group: Prof. Teresa Maria Seccia, MD, PhD Dr. Giacomo Rossitto, MD, PhD Dr. Brasilina Caroccia, BSc, PhD Dr. Livia Lenzini, BSc, PhD Dr. Giulio Ceolotto, BSc, PhD Prof. Ana Briones, BSc, PhD (Universidad Autonoma de Madrid) Prof. Koen Reesink, PhD (CARIM, University of Maastricht)
Webpage	https://www.unipd.it/dottorato/arterial-hypertension-vascular-biology
Context of the research activity and objectives	Secondary forms of arterial hypertension are markedly undetected leaving millions of people exposed to the ominous consequences of high cardiovascular risk in Europe. Aims of the research topic are to develop a simplified diagnostic algorithm and to identify novel biomarkers that can improve the case detection of primary aldosteronism, which is the most common form of secondary hypertension.
Infrastructures	Facilities at DIMED include laboratories equipped with devices for clinical, molecular and cellular diagnostics, and libraries with PC workstations. Online access to the most scientific journals, international databases and biostatistics software is provided. Collaborations with other departments at UNIPD and several European Universities will allow easy access to all facilities needed for the project.
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