

Research options available for topic A

Research topics a) and b) 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 A	<p>Hyperaldosteronism and atrial fibrillation</p> <p>Atrial fibrillation is the most common sustained arrhythmia, with 6 million affected people in Europe. This research topic will investigate the relationship between hyperaldosteronism and atrial fibrillation, as a follow-up of the Prospective Appraisal on the Prevalence of Primary Aldosteronism in Hypertensive (PAPPHY) Study, which evidenced high prevalence of primary aldosteronism in the hypertensive patients with unexplained atrial fibrillation.</p>
Link to the UNIPHD Call (Academic Year 2022/2023)	https://www.unipd.it/en/uniphd
Latest Update	11.01.2022
#Number of available Research Options	2 <i>Scroll down to see all the Research Options</i>

1 Research Option Description

Doctoral Course	Arterial Hypertension and Vascular Biology (ARHYVAB)
Department name	Department of Medicine - DIMED
Research topic A	Hyperaldosteronism and atrial fibrillation
Research option	Mechanisms underlying the relationship between aldosteronism and atrial fibrillation
Supervisor	<p>Supervisor: Prof. Teresa Maria Seccia, MD, PhD teresamaria.seccia@unipd.it</p> <p>Members of the research group: Prof. Gian Paolo Rossi, MD, FACC, FAHA Dr. Giacomo Rossitto, MD, PhD Dr. Brasilina Carocchia, 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)</p>
Webpage	https://www.unipd.it/dottorato/arterial-hypertension-vascular-biology
Context of the research activity and objectives	Atrial fibrillation is the most common sustained arrhythmia, with 6 million affected people in Europe. This research topic will investigate the relationship between hyperaldosteronism and atrial fibrillation, as a follow-up of the PAPPHY Study, which evidenced high prevalence of primary aldosteronism in the hypertensive patients with unexplained atrial fibrillation (<i>clinicalTrials.gov ID: NCT01267747; Seccia TM et al. J Hypertens 2020</i>). Clarification of the molecular mechanisms underlying this relationship is the major result expected from the present research topic.
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	<ul style="list-style-type: none"> • 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 A	Hyperaldosteronism and atrial fibrillation
Research option	Recurrence of atrial fibrillation in the patients with primary aldosteronism
Supervisor	Supervisor: Prof. Gian Paolo Rossi, MD, FACC, FAHA gianpaolo.rossi@unipd.it Members of the research group: Prof. Teresa M. Seccia 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	Atrial fibrillation is the most common sustained arrhythmia, with 6 million affected people in Europe. This research topic will investigate the relationship between hyperaldosteronism and atrial fibrillation, as a follow-up of the PAPPHY Study, which evidenced high prevalence of primary aldosteronism in the hypertensive patients with unexplained atrial fibrillation (<i>Seccia TM et al. J Hypertens 2020</i>). Aims of this research option are to assess recurrence of atrial fibrillation in the patients with primary aldosteronism compared to those with primary hypertension, and to identify the predictors of recurrence.
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	<ul style="list-style-type: none"> • 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