



TABLE 9 – PhD Programme in CLINICAL AND TRANSLATIONAL MEDICAL SCIENCES

THE PHD PROGRAMME	
Administrative location	University of Udine, Department of Medicine (DMED) –via Colugna 50, 33100 Udine, ITALY (tel. +39 0432 494301).
Partner institution	Azienda sanitaria universitaria Friuli Centrale (ASU FC) – via Pozzuolo 330, 33100 Udine, ITALY. Azienda sanitaria Friuli Occidentale (ASU FO) – via della Vecchia Ceramica 1, 33170 Pordenone, ITALY
Location for training, teaching and research activity	Teaching and other training activities will take place primarily at the location of the administrative programme or in other locations of the University of Udine. The research programme will be carried out, with reference to the scholarship (see art. 10 and 13 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, partner location, financial supporter location (if the financial supporter is an external institution).
Coordinator	prof. Giuseppe Damante (giuseppe.damante@uniud.it)
Programme duration	3 years
Curricula	-
Research topics	<ul style="list-style-type: none">- Bio-behavioral investigations in nutrition and eating disorders.- Bio-behavioral investigations in neuropsychiatric and neurodevelopmental disorders- Equity, safety and quality of care and treatment in a global health logic.- Study of minor cardiovascular risk factors and their impact on renal and cardiac function and on the residual risk of cardiovascular diseases.- Mass spectrometry techniques for the identification of clinical phenotypes of diseases- Molecular mechanisms underlying neurodegenerative diseases.- Genetic and epigenetic mechanisms of disease.- Oxidative energy metabolism (respiratory, cardiovascular, microvascular/endothelial, muscular, mitochondrial functions) following disuse, in particular environmental conditions and in pathological conditions- Drugs for retinal diseases.- Analysis of neuromuscular and metabolic parameters associated with motor function, and study of the effects of physical exercise with and without combinatorial strategies for improving motor function itself.- Analysis of the effects of different types of training on aerobic and anaerobic physical capacity in healthy subjects and/or with stabilized chronic diseases.- Causal factors, mechanisms and effects of Unfinished Nursing Care- Effectiveness of continuing education strategies in healthcare professionals- Development of innovative tools for nutritional epidemiology- Impact of nutrition on the outcome of neuroinflammatory and neurodegenerative diseases. Evaluation through clinical-instrumental methods of functional performances (motor, cognitive and quality of life), biological markers of inflammation and changes in the intestinal microbiota.- Updating of the Food Composition Database for epidemiological studies in Italy.- Development of innovative nutritional databases- Mechanisms of blood pressure regulation and organ damage production in the action of adrenal hormones and the renin-angiotensin system.- Double beta-lactam in the therapy of infections: concept of PBP (penicillin binding protein) saturation.- Liquor biomarkers in the prognosis of central nervous system infections.- Neuroinflammation/neurodegeneration biomarkers- Microbiota-gut-brain axis: control of neuroinflammation/neurodegeneration and response to therapies.- Clinical integration of imaging-derived biomarkers, including artificial intelligence, in oncology.- Clinical integration of imaging-derived biomarkers, including artificial intelligence, in pulmonary pathology.- Clinical integration of imaging-derived biomarkers, including artificial intelligence, in rheumatology.- ICU acquired weakness strategies for diagnosis and therapy (nutrition hormones, microbiome).- Inflammatory states in the critical patient from phenotyping to personalized approach of therapies (biological therapies, metabolic modulation, extracorporeal purification technologies).- Solid organ transplants (liver and/or kidney) and acute renal failure, diagnosis, prevention, management.- Hemodynamic monitoring, new systems, risks-benefits, outcome, use.



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	<ul style="list-style-type: none"> - Organizational research on health services and nursing organizational models. - Knowledge of the biological mechanisms underlying stemness and potential clinical uses, quality controls and regulations related to the use of stem cells for human use. - Tissue engineering and Regenerative Medicine. - Regenerative medicine and mesenchymal stem cells in plastic surgery. - Therapeutic potential in the wound care of difficult lesions and new perspectives. - Role of cathelicidin (LL-37) in foreign body reaction mechanisms and its clinical implication. - Inflammation and cardiovascular disease. - Tools for the treatment of infectious disease. - Heart and inflammation, molecular mechanisms of heart disease. - Treatment of advanced heart failure. - Cardiac valvular disease: pathophysiology, diagnosis and treatment. - Aortic disease: pathophysiology, diagnosis, treatment. - Classification systems of disease and health activities for public health purposes.
Research programmes	The research programmes, if not already defined by funding organizations or specific funding lines (see “Available places and assessment procedures”, art. 3 p. 5 of the Call), are determined by the Board of Professors within scope of the topics related to one or more of scientific disciplines included in the curricula of the doctoral programme.
Programme website	https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/scienze-mediche-cliniche-e-traslazionali/ph-d-programme/eng-scienze-mediche-cliniche-e-traslazionali?set_language=en

ADMISSION REQUIREMENTS

Required degree	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and DM 270/04) or equivalent degree obtained abroad.
Knowledge of the foreign languages	Foreign degrees and diplomas: refer to art. 4 of the Call. English

SELECTION COMMITTEE

Regular members	Giuseppe Damante – full professor – University of Udine Massimo Imazio – full professor – University of Udine Marco Colizzi – associate professor – University of Udine Angelo Di Giorgio – researcher – University of Udine Stefano Lazzer – associate professor – University of Udine
Substitute members	Bruno Grassi – full professor – University of Udine Alvisa Palese – full professor – University of Udine Daniele Veritti – associate professor – University of Udine Piercamillo Parodi – full professor – University of Udine

ADMISSION

Selection process

Evaluation of qualifications and documents; oral exam. The evaluation aims at ascertaining the candidate's aptitude for scientific research and his/her basic preparation for the purpose of carrying out the doctoral programme. The Selection Committee can attribute up to 100 points, at most 30 points to the documents and at most 70 points to the oral exam. Candidates who score at least 15/30 points in the evaluation of qualifications and documents are admitted to the oral exam. Candidates must attain a score of at least 49/70 points on the oral test to be eligible. For eligible candidates only, the score from the evaluation of documents is added to the score obtained in the oral exam.	
Language that can be used for exam	Italian or English.
Oral exam	The oral exam is held in person. The oral exam aims to assess the candidate's aptitude for scientific research and their disciplinary preparation for the purposes of carrying out the doctoral programme and research project.

QUALIFICATION SUBJECT TO EVALUATION AND DOCUMENTS TO BE SUBMITTED

			Maximum score
Mandatory documents	1	DOCUMENTS REQUIRED FOR ADMISSION TO THE PHD PROGRAMME (Art. 4 of the Call for Applications):	



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<p>(art. 5 of the Call) UNDER PENALTY OF EXCLUSION</p>	<p>Italian or EU candidates holding:</p> <ul style="list-style-type: none"> • Degree already obtained: Self-certification issued in the form of a substitute declaration pursuant to Art. 46 and 47 of Presidential Decree no. 445 of 28.12.2000 and subsequent amendments, certifying the degree obtained and its related details (University, final grade, date of issue). <i>A template is available for download on the webpage dedicated to doctoral programmes.</i> • Degree to be obtained: Self-certification issued in the form of a substitute declaration pursuant to Art. 46 and 47 of Presidential Decree no. 445 of 28.12.2000 and subsequent amendments, certifying enrollment in the degree programme and its related details (University, average exam marks, credits earned, expected date when degree will be issued). <i>A template is available for download on the webpage dedicated to doctoral programmes.</i> <p>Non-EU candidates who are not legally residing in Italy and not authorized to stay in the country, in possession of:</p> <ul style="list-style-type: none"> • Foreign degree already obtained: <ul style="list-style-type: none"> – Certificate attesting the possession of a second-level university degree (see Art. 4), issued by the institution that awarded it, specifying the type of degree, date of issue and final grade; – Transcript of records of the Master's degree required for admission to the doctoral programme, including credits (if provided for in the university system of the country that issued the degree), grades and grading scale. If the university system is divided into first and second cycle, it is preferable that applicants also submit their Bachelor's degree certificate (first-cycle degree) and the transcript of records for this. • Foreign degree to be obtained: Certificate of enrollment in a degree programme that qualifies for admission to the doctoral programme (see Art. 4), indicating exams taken, related credits (if provided for in the university system of the country that issued the degree), grades, grading scale (academic transcript of records) and the expected date of degree award. If the university system is structured in first and second cycle, applicants are also preferably required to submit the Bachelor's degree certificate (first-cycle degree) and the transcript of records for this. <p>Non-EU candidates who are legally residing in Italy, in possession of:</p> <ul style="list-style-type: none"> • Degree already obtained in Italy: Self-certification issued in the form of a substitute declaration pursuant to Art. 46 and 47 of Presidential Decree no. 445 of 28.12.2000 and subsequent amendments, certifying the degree obtained and its related details (University, final grade, date of issue). <i>A template is available for download on the webpage dedicated to doctoral programmes.</i> • Degree to be obtained in Italy: Self-certification issued in the form of a substitute declaration pursuant to Art. 46 and 47 of Presidential Decree no. 445 of 28.12.2000 and subsequent amendments, certifying enrollment in the degree programme and its related details (University, average exam marks, credits earned, expected date when degree will be issued). <i>A template is available for download on the webpage dedicated to doctoral programmes.</i> <p>Non-EU candidates legally residing in Italy, holding a degree obtained or to be obtained abroad, must follow the instructions for “non-EU candidates who are not legally residing in Italy and not authorized to stay in the country”.</p> <p>Non-EU candidates authorized to reside in Italy may use self-certifications where the use of such documents is permitted under international agreements between Italy and the candidate's country of origin.</p> <p>Non-EU candidates legally residing in Italy and non-EU citizens authorized to reside in Italy who intend to use self-certifications must attach their residence permit or authorization to stay in Italy to their application.</p>	
<p>2</p>	<p>Copy of a valid personal identification document (for citizens of countries outside the European Union, a copy of the passport, specifically the pages showing the document number, photograph, personal details, place and date of issue, and expiration date).</p>	
<p>3</p>	<p>CV and Academic Record which must provide detailed information on all previous and, where applicable, ongoing education and training (education and training history, degree thesis, publications and articles, research areas of interest, work experience, internships, research periods abroad, awards and</p>	<p>16</p>



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		honors, personal, social, organizational, technical, and artistic skills and competencies) <i>A template is available for download on the webpage dedicated to doctoral programme.</i>	
	4	Research proposal which consists of identifying the topic of interest and explaining the reasons behind its selection, in line with those listed in the document “Available places and assessment procedures” (Art. 3 par. 5 of the Call), maximum 1,000 characters, including spaces, in Italian or English. <i>A template is available for download on the webpage dedicated to doctoral programmes.</i>	8
Optional documents (art. 5 of the Call)	1	Publications (upload max. 2 publications) on impact factor journals relevant to the subjects of the doctoral programme.	4
	2	Reference letters (enter a max. of 2 reference contacts) from university professors, scientific researchers or other experts in the field (art. 6 of the Call);	2
For details on the procedures for submitting documents and qualifications, please refer to Articles 5 and 6 of the Call. In particular, it should be noted that: 1. Documents and qualifications must be submitted in Italian or English, except for those for which this form specifically requires English. Documents and qualifications originally in another language must be accompanied by a translation into Italian or English carried out by the candidate who assumes full responsibility for its accuracy. Regarding the thesis specifically, the translation may be limited to an extended abstract. 2. Documents and qualifications, with the exception of reference letters, must be attached to the online application in digital format (.pdf).			