



Document updated on 25/05/2021.

Addenda and corrections are written in red.

**CALL FOR PHD POSITIONS – 37<sup>th</sup> CYCLE**

**PHD PROGRAMME IN MEDICAL PHYSIOPATHOLOGY**

<b>Coordinator</b>	Prof. Franco VEGLIO
<b>Department</b>	Medical Sciences
<b>Programme length</b>	3 years
<b>Programme website</b>	<a href="http://Homepage - Dottorato in Fisiopatologia Medica - Università degli Studi di Torino (unito.it)"><u>Homepage - Dottorato in Fisiopatologia Medica - Università degli Studi di Torino (unito.it)</u></a>
<b>Programme start date</b>	1 <sup>st</sup> November, 2021
<b>Departments involved in the PhD Programme</b>	Dept of Medical Sciences, Dept of Molecular Biotechnology and Health Sciences, Dept of Surgical Sciences, Dept of Sciences of Public Health and Pediatrics.

<b>Positions offered by the PhD Programme<sup>1</sup></b>	
n. 9 positions with scholarship, of which n. 1 reserved to candidates with international qualifications	of which: <ul style="list-style-type: none"><li>- n. 7 scholarships funded by the University of Torino;</li><li>- n. 2 scholarships funded by the School of Medicine entitled to the memory of Gian Luigi Turco</li></ul>
n. 3 position without financial support	
n. 1 apprenticeship position with COQUA LAB srl (upon Piedmont Region approval. This position is related to a specific project.	

<sup>1</sup> Any additional scholarships and apprenticeship contracts (Legislative Decree no. 81/2015 art.45), which may become available after the publication of this Call, will be announced on the Doctoral School website [Partecipare al Bando/Submitting your application](#) until the Call's deadline.



**CALL FOR NON-RESERVED (ORDINARY) POSITIONS**

**ADMISSION PROCEDURE**

*(qualifications, including research project + interview)*

	<b>Max</b>	<b>Score</b>	<b>Information/ documents</b>	<b>Application</b>
<b>QUALIFICATIONS</b>		<b>max. 40</b>		
Final grade Graduates in Italy		<i>max. 15</i>	<i>Final grade of the degree giving access to PhD</i>  <i>110-110L 15 points</i> <i>from 107 to 109: 14 points</i> <i>from 104 to 106 13 points</i> <i>from 100 to 103: 12 points</i> <i>=&lt; 99: 11 points</i>	
Weighted average Graduands in Italy		<i>max. 15</i>	<i>Self-certification of exams taken – Laurea Triennale/Bachelor's Degree and weighted average</i>  <i>Self-certification of exams taken – Laurea Magistrale/Master's Degree and weighted average</i>  <i>weighted average &gt;28/30: 15 points</i> <i>weighted average 27-28/30: 14 points</i>	



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			<i>weighted average &lt;27/30 13 points</i>
CV Graduates in Italy Graduates in Italy		<i>max. 10</i>	<i>(as per the CV template)</i>
CV Graduates abroad Graduands abroad		<i>max. 25</i>	<i>(as per the CV template)</i>
Publications	<b>2</b>	<i>max. 5</i>	<i>2,5 points for publication with IF 0,1 points for publication without IF</i>
Research Project		<i>max. 15</i>	<i>Research project (max 4000 words, bibliography included). Candidates are required to choose a title from those offered by the PhD Programme and write the project proposal on that topic.</i>  <i>Research Project must include: state of the art, objectives, expected developments and outcomes, bibliography.</i>
<i>Threshold to be admitted to the next examination</i>		<i>25</i>	
<b>INTERVIEW</b>		<b><i>max. 60</i></b>	<i>Discussion of the research project developed by the candidate by choosing a title among those indicated by the Doctorate. To support the project, the candidate may, during the discussion, possibly use documentary material.</i>



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			<i>The research project must include: state of the art, objectives, expected developments and results, bibliography and may be discussed in Italian or English</i>
<i>Threshold to pass the interview (qualified for PhD)</i>		35	

<b>CALL FOR POSITIONS RESERVED TO CANDIDATES HOLDING FOREIGN QUALIFICATIONS</b>			
<b>ADMISSION PROCEDURE</b> <i>(qualifications, including research project + interview)</i>			
	<b>Max</b>	<b>Score</b>	<b>Information/ Application documents</b>
<b>QUALIFICATIONS</b>		<b>max. 40</b>	
CV Graduates abroad Graduands abroad		max. 25	<i>(as per the CV template)</i>
Publications	<b>2</b>	max. 5	2,5 points for publication with IF 0,1 points for publication without IF



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Reference letters		0	<b>Not required</b>
Research Project		max. 10	<p><i>Research project (max 4000 words, bibliography included). Candidates are required to choose a title from those offered by the PhD Programme and write the project proposal on that topic.</i></p> <p><i>Research Project must include: state of the art, objectives, expected developments and outcomes, bibliography.</i></p>
Threshold		25	
<b>INTERVIEW</b>		<b>max. 60</b>	<p><i>Discussion of the research project developed by the candidate by choosing a title among those indicated by the Doctorate. To support the project, the candidate may, during the discussion, possibly use documentary material.</i></p> <p><i>The research project must include: state of the art, objectives, expected developments and results, bibliography and may be discussed in Italian or English.</i></p>
Threshold to pass the interview (qualified for PhD)		35	

## Research topics

### PhD Programme in Medical Physiopathology

1. Research topic linked to the apprenticeship position at CoQua Lab  
Scientific referent: CoQua Lab



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Studio della validazione di test diagnostici in ambito clinico secondo la nuova normativa Europea (IVDR).

Study of the validation of diagnostic tests in the clinical setting according to the new European legislation (IVDR). Tutor: CoQua Lab

2. Scientific referent: Prof. Livio Trusolino

Evoluzione della diagnostica nell'ambito delle malattie emolinfoproliferative con il supporto di analisi -omiche.

Evolution of diagnostics for blood and lymphoproliferative diseases with the support of omic-analyses.

3. Scientific referent: Prof.ssa Desiree Deandreis

Applicazione di modelli di "machine learning " per lo studio di fattori prognostici e predittivi di risposta alla terapia nel carcinoma tiroideo.

Applications of "machine learning" models to study prognostic and predictive factors for response to therapy in thyroid cancer.

4. Scientific referent: Prof.ssa Riccarda Granata

Effetti dei peptidi del gene ghrelin nel browning degli adipociti murini ed umani.

Role of the ghrelin gene-derived peptides on browning of rodent and human adipocytes.

5. Scientific referent: Prof. Franco Veglio.

Analisi dell'incidenza e identificazione dei predittori di progressione del danno vascolare nella displasia fibromuscolare"

Incidence and predictors of progression of Fibromuscular Dysplasia and related vascular diseases. Tutor:

6. Scientific referent: Prof. Prof. Ezio Ghigo.

Caratterizzazione fisiopatologica e diagnostica di patologie andrologiche, endocrino-ginecologiche attraverso Innovative metodologie analitiche degli steroidi androgeni.

Pathophysiological and diagnostic assessment of clinical problems in andrology and gynecological endocrinology through innovative analytical methods investigating androgen milieu.

7. Scientific referent: Prof.ssa Stefania Bruno

Sviluppo di un modello murino per dimostrare i possibili effetti terapeutici della vescicole extracellulari derivata da cellule staminali sulla cirrosi epatica

Development of a mouse model to demonstrate the possible therapeutic effects of stem cell-derived extracellular vesicles on hepatic cirrhosis.

8. Scientific referent: Prof. Francesco Derosa.

Metodologie di Conferenze di Consensus e Costruzione di Linee Guida di utilizzo degli anti-infettivi in pazienti oncologici ed oncoematologici: profilassi, terapia pre-emptive, empirica, mirata.



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Consensus Conference and Guideline Methodologies of Anti-infective use in oncology and onco-haematology patients: prophylaxis, pre-emptive, empiric and targeted treatment.

9. Scientific referent: Prof.ssa Bugianesi.

Meccanismi metabolici di progressione fibrosa epatica e marcatori non invasivi di fibrosi epatica nella nonalcoholic fatty liver disease (NAFLD)

Metabolic mechanisms of liver fibrosis progression and non invasive biomarkers of fibrosis in nonalcoholic fatty liver disease (NAFLD).

10. Scientific referent: Prof.ssa Bussolati.

Identificazione di marcatori esosomali di rigenerazione renale

Identification of exosomal markers for kidney regeneration.

11. Scientific referent: Prof.ssa Brizzi.

Meccanismo d'azione delle anti-IL-3R-EV e compartimento immunitario tumorale  
Understanding the role of the tumor immune compartment in anti-IL-3R-EV mechanism of action.

12. Scientific referent: Prof.ssa Cavallo.

Impatto del Microbioma intestinale sulla gestione clinica dei pazienti critici.

Impact of gut microbioma on clinical management of critical patients.

13. Scientific referent: Prof. De Rosa

Valutazione dell'impatto di differenti biomarkers nella gestione di pazienti che presentano multiple intolleranze o resistenze ai farmaci.

Evaluation of the impact of different biomarkers in the management of patients with multiple drug intolerances or resistances.