



MOLECULAR MEDICINE	
CYCLE	XXXVIII
COORDINATOR	Prof. Prisco MIRANDOLA email: prisco.mirandola@unipr.it Department of Medicine and Surgery
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none">• Role of molecular chaperones in the onset and progression of protein misfolding diseases• Metabolic alterations of hematological neoplasms and remodeling of the bone marrow niche• Evaluation of the inflammatory state by in vitro studies: molecular and clinical aspects• Physical activity and well-being• Set up and validation of novel models of Chronic obstructive pulmonary diseases• Design and synthesis of biological drugs directed against tumors and viral agents• Genetics of sudden cardiac death	
TRAINING OBJECTIVES	
The Research Doctorate Course in Molecular Medicine aims to provide PhD students with the cultural and methodological skills necessary to carry out high-profile research in different scientific disciplines in the biomedical field, integrated in an interdisciplinary perspective. The acquired training will allow PhD students in Molecular Medicine to employ themselves in high level research and development activities in Universities, research centers and industries engaged in the medical, biological and biotechnological sectors.)	
ADMISSION REQUIREMENTS	Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: <ul style="list-style-type: none">– Laurea specialistica or Laurea magistrale (second cycle master's degree)– Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);– Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022

POSITIONS PUT OUT TO COMPETITION	7	With Scholarship	7
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
3	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none">• Role of molecular chaperones in the onset and progression of protein misfolding diseases• Metabolic alterations of hematological neoplasms and remodeling of the bone marrow niche• Evaluation of the inflammatory state by in vitro studies: molecular and clinical aspects• Physical activity and well-being	
1	Scholarship co-funded by Fondazione Cariparma		



Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)
(Modified by Rector Decree n. 1391 of 01.09.2022)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Chemistry, Life Sciences and Environmental Sustainability (co-financed by Project PRIN 2020, 2017LW7XWH: Early Phase Preclinical Development of PACECOR, a Mutation-Independent Anti-SARS-Co2 Therapeutic Strategy” - CUP D55F20002710001)	<ul style="list-style-type: none"> • Set up and validation of novel models of Chronic obstructive pulmonary diseases
1	Scholarship funded by Chiesi Farmaceutici S.p.A.	<ul style="list-style-type: none"> • Design and synthesis of biological drugs directed against tumors and viral agents
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Abbott S.r.l.	<ul style="list-style-type: none"> • Genetics of sudden cardiac death



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ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 10 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 60 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.</p> <p>The evaluation of the knowledge of this language will be by an oral examination and will consist in translating of a scientific text.</p>
<p>CANDIDATES ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Candidates who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p>LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)



Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project	Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate). <u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.</u>	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Statement of Research interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	
Reference Letters	A maximum of 3 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities, to be attached to the online application.	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units – Working activity – Professional and/or training internship – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 10 points
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points; - From 100 to 109: 0,2 point for each mark unit	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)	Score related to the average of the exam marks: - > 28/30: 5 points - > 27/30: 3 points - > 25/30: 1 point	Up to 5 points



Graduation thesis	Consistency with the research themes of the PhD course and quality of the research methodology	Up to 7 points
Research Project	Points relating to the research project: <ul style="list-style-type: none"> ○ Scientific value and originality of the proposal: max 2.5 points ○ articulation of the proposal: max 2.5 points ○ proposal feasibility: max 2.5 points ○ consistency with the research themes of the PhD course: max 2.5 points 	Up to 10 points
Statement of Research Interest	Clarity, maturity, motivation and expectations	Up to 9 points
Scientific publications	Evaluation of the candidate's contribution and the editorial location of the product.	Up to 9 points
Reference Letters	one point per letter	Up to 3 points
Other Academic qualifications	Academic qualifications/experience abroad/grants, scholarships and awards	Up to 5 points
Other experiences		Up to 2 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge of the foreign language: max 4 points ○ ability to argument the project proposal: max 28 points ○ knowledge of chosen topic: max 28 points 	Up to 60 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	20 September 2022 (with possible extension in the following days)
	TIME	10:00 AM (Italian Time)
	PLACE	Department of Medicine and Surgery Integrated Biotechnological Plexus Via Volturno, 39 – 43125 PARMA - ITALY
OTHER INFORMATION	The Oral Exam is held in Italian. For foreign candidates, the admission examinations may be held also in English at the candidate's choice.	