



DRUG SCIENCES	
CYCLE	XXXIX
COORDINATOR	Prof. Marco MOR email: marco.mor@unipr.it Food and Drug Department
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2023
TRAINING OBJECTIVES	
<p>The PhD programme "Drugs Sciences" is aimed at the preparation of "Dottori di ricerca" having scientific bases and research experience in the design, discovery, development, production and control of drugs and health products, as well as in the investigation of mechanisms of action for drugs and bioactive compounds. The Course offers multi-disciplinary formation in different scientific areas, mainly chemical and biological with particular focus on medicinal chemistry, pharmaceutical technology, pharmacology and biochemistry. All the contributions converge toward the education and research training of PhD students who, at the end of the course, are expected to produce innovation and new knowledge in the field of drugs, biomolecules, health products and their interaction with biological substrates.</p>	
RESEARCH AREAS	
<ul style="list-style-type: none">• Biochemistry and Molecular Biology• Biopharmaceutics – Pharmacokinetics• Bio-organic chemistry• Experimental Pharmacology and Toxicology• Drug Design and Synthesis	
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 by 31.10.2023

POSITIONS PUT OUT TO COMPETITION		11
With Scholarship		11
Position with Scholarship		
N°	Funding entity	Research Topic, if any
4	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none">• Biochemistry and Molecular Biology• Biopharmaceutics – Pharmacokinetics• Experimental Pharmacology and Toxicology• Drug Design and Synthesis
1	Scholarship co-funded by Fondazione Cariparma	<ul style="list-style-type: none">• Drug Design and Synthesis
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Food and Drug Department	<ul style="list-style-type: none">• Biopharmaceutics – Pharmacokinetics



Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 118/2023 art. 8 “PNRR Research”) CUP D92J23000230006 	In vitro and in vivo modulation of cholesterol metabolism as a novel pharmacological strategy to counteract neurodegeneration
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 117/2023) and co-financed by the Company Chiesi Farmaceutici S.p.A. CUP D92J23000360004 	In vitro, ex vivo and in vivo characterizations of inhaled product pharmacokinetics focused on PK/PD correlations.
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 117/2023) and co-financed by the Company Chiesi Farmaceutici S.p.A. CUP D92J23000360004 	Advanced models and novel formulations for the local management of chronic cough
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 117/2023) and co-financed by the Company Medi Nova S.a.s. CUP D92J23000360004 	Novel formulations for artificial insemination for a sustainable pigmeat production
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 117/2023) and co-financed by the Company Dompé Farmaceutici S.p.A. CUP D92J23000360004 	Development and characterization of drug delivery systems for site-specific and multi-kinetics release of one or more drugs for oral administration

ADMISSION PROCEDURES		
<p>Assessment of QUALIFICATIONS: up to 50 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 70 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>		
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text.	ENGLISH
<p>ORAL EXAMINATION INDICATION</p> <p>THE ORAL EXAM TAKES PLACE IN THE PRESENCE. (*The REMOTE ORAL EXAM is allowed for candidates only in isolation / quarantine for COVID-19 virus infection or due to illness / hospitalisation certified by a medical report. To this end, candidates must submit a motivated REQUEST as per the model attached to the competition announcement)</p> <p>* Modified with the Rector Decree n. 1397 of 28.07.2023</p>		



THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

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)
Academic 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	The research project shall consist of a maximum of 3 pages, be written in Italian or in English, focused on an original research topic and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results. It should be noted that the Examination Board can use tools useful for verifying the originality of the submitted Project. <u>The research project does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be defined together with the supervisor and approved by the Academic Board.

LIST OF EVALUABLE QUALIFICATIONS

(only qualifications attested by a document drawn up in Italian or in English)

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 20 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics	Up to 10 points
Research Project	Points relating to the research project shall be allocated on the basis of the following criteria: <ul style="list-style-type: none"> ○ Scientific value and ground-breaking nature of the proposal: 5 points ○ description and structure of the proposal: 5 points ○ consistency with the themes of the doctorate: doctorate proposal feasibility: 5 points 	Up to 15 points
Scientific Publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings.	Up to 5 points

ORAL EXAM

Interview Program	Evaluation CRITERIA	POINTS
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<p>The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course</p>	<ul style="list-style-type: none">○ knowledge of the foreign language: max 10 points○ research project argumentation: max 30 points○ general knowledge of issues connected to the PhD course: max 30 points	Up to 70 points
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SCHEDULE OF THE ADMISSION EXAMS

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	12 September 2023 (with possible extension in the following days)
	TIME	09:30 AM (Italian Time)
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A 43124 PARMA - ITALY
ALTRE INDICAZIONI		The choice of the Research Topic to be expressed in Annex A is not binding on the assignment of the research project, and it is intended to assess candidates skills during the admission exam. The PhD research topic will be assigned by the Academic Board.