

BIOTECNOLOGY AND LIFE SCIENCES				
Cycle	XXXIV			
Coordinator	Prof. Simone OTTONELLO Department of Chemistry, Life Sciences and Environmental Sustainability email: <u>simone.ottonello@unipr.it</u>			
Duration	3 years			
Starting date of the PdD programme	01/11/2018			

Research Topics (The candidate **MUST** indicate one research topic)

- Environmental
- Genetic
- Biomolecular

Training Objectives

The PhD in Biotechnology and Life Sciences aims to train experts capable of performing (and be in charge of) advanced research activity in multiple and diverse fields of biology and biotechnology. The main focus will be on the study of the function, organization, and expression of microbial, plant and animal genomes (including the human genome) from a basic science but also a translational point of view, in order to gain insights on possible biotechnological and biomedical applications. The experimental methodology will be centred on the investigational tools of genetics, molecular biology, biochemistry and applied biology. Starting from these shared objectives, in order to train PhDs with highly qualifying skills in specific fields of Biotechnology and Life Sciences, three main research areas have been identified: 1) environmental; 2) genetic; 3) biochemical-molecular. PhD students will be involved, on a full-time basis, in a research project, to which they will contribute in a highly critical and constructive/transformative manner. This will allow them to achieve scientific and management independence, also taking advantage of the national and international scientific collaborations in which they will be involved.

Admission requirements

Applicants who have one of the following degrees may participate to the selection:

- Laurea specialistica or Laurea magistrale (second cycle degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);
- an academic Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and <u>recognized as suitable for the admission to doctoral programmes</u>.

Undergraduate applicants may apply with the obligation of getting their degree by **October 31st 2018.**

POSITIONS PUT OUT TO COMPETITION

With Scholarship		7
Without Scholarship		1
Reserved to employees of companies having an "Industrial Doctorate" arrangement		1
	TOTAL	9



	Positions with University Scholarship				
N°	Funding er	ntity	Research Topic		
3	Scholarship funded by the M University and Research	inistry of Education,	EnvironmentalGeneticBiomolecular		
1	Scholarship funded by the Ur	niversity of Parma	– Biomolecular		
1	Scholarship co-funded by For	ndazione Cariparma	– Genetic		
1	POSITION WITHOUT SCHOLA	RSHIP	 Biomolecular: "Proteome analysmodels of pulmonary diseases" 	sis in preclincal	
	Position with Scholarship	LINKED TO SPECIFIC TO	PICS (art. 11 of the Call for applicati	ons)	
scholars	hip dedicated to a specific real the scholarship in considera	search topic. The Com	nation Committee their interest for I mittee will express its judgement on npetences, experience and specific	eligibility to be	
N°	Funding er	ntity	BOUND RESEARCH TO	PIC	
1	a ł		 Environmental: "The potential of applied biology in limiting urban air pollution and preventing its effects on human health and on the environment" The project will be conducted as part of a co-tutorship agreement with a European University where the student will have to spend a period of at least 6 months and may provide for the award of a double PhD degree. 		
1	Chiesi Farmaceutici S.p.A.		 Biomolecular: "Transcriptome profiling of hyperoxia induced lung-injury" 		
	Position reserved accordin	g to art. 2 paragraph 2 Industrial Doc	, lett. e) of Ministerial Decree n. 45/2 torate)	2013	
N°			/Institution		
1	Reserved to employees of Ch	iesi Farmaceutici S.p.A.			
ADMISS	ION PROCEDURES				
ORAL EX	nent of QUALIFICATIONS: up to (AM: up to 80 points m score for ELIGIBILITY: 70/12				
Foreign Language		Language the fluency of which will be assessed during the Oral Exam: <u>ENGLISH</u> . The evaluation of the knowledge of the above language will be performed			
		on an oral basis and may include the reading and translation of a scientific text.			
	evant request shall be submitted usir	ropriately documented by the form attached to the o	ed) competitive examination announcement)	YES	
	IHE		LU ALSU IN ENGLISH		



LIST OF QU	LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT				
Mandatory documents to be atta	ached to the on-line application				
 Curriculum Vitae et studiorur Abstract/Summary of the sec Certificates and academic tranding details for each degree held: (University that granted the Type of degree (first cycles) Name of the degree proge Date of graduation Final mark List of exams and correspesion Translation into Italian or Statement of Research Inter English, aimed at explaining the specific research interests; als Further qualifications that may be (only qualifications attested by a Scientific Publications/comments of oral communication Academic qualifications: other topics of this PhD programme Mobility experience abroad (ification document with photo n (art. 4 of the Call for Applications) ond cycle master's degree thesis. (10.000 characters including s nscript of records for both Bachelor' and Master' degrees contai art. 4 of the Call for Applications): ne degree e/second cycle/single cycle) ramme onding scores (academic transcript of records) English (only for degrees issued in languages other than Italian est: Short text – maximum 3.000 characters, including spaces ne candidate's reasons for applying to this particular PhD and at o specifiy the interest for one of the three main research topic to specify the interest for one of the three main research topic muications at conferences or symposia: attach a list of articles p tific journals, articles published in indexed national journals ons or posters presented at national or international scientific core re Master' and/or specialization degreees in subjects related to t ; e.g. Erasmus or similar appropriately documented experiences);	or English) – in Italian or ir describing his/he <u>s.</u> published in peer s; book chapters onferences; he research			
 Any other document certifyin 	g the applicant's traning and abilities (grants, 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 5 points			
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 20 points; - 110: 18 points; - From 101 to 109: 2 points for each mark unit (0-16 points)	Up to 20 points			
Average of the exam marks (if the candidate will attain the degree	Score related to the average of the exam marks: - 30/30: 18 points;				



Graduation thesis	Relatedness of the Master's Degree thesis with the doctoral programme research topics, as deduced from the Abstract/Summary of the thesis.	Up to 4 points
Statement of Research Interest	Short text – maximum 3.000 characters, including spaces – in Italian or in English, aimed at explaining the candidate's reasons for applying to this PhD course; the possible candidate's interest for one of the proposed 'bound research topics' may also be specified, if applicable.	Up to 2 points
Scientific Publications	Publications in peer-reviewed international scientific journals: 2 points for each publication (for evaluation purposes it is mandatory to attach a copy of the each publication to the application).	Up to 6 points
Communications to conferences, publications in indexed national journals, book chapters	1 point for each conference abstract, publication in indexed national journals or book chapters (for evaluation purposes it is mandatory to attach a copy of each item to the application).	Up to 3 points
ORAL EXAMINATION	EVALUATION CRITERIA	POINTS
The ORAL EXAM meant to assess the suitability of the applicant to pursue scientific research as well as his/her general knowledge of scientific topic related to the PhD course	The Oral Exam will focus on critical reading and discussion of a scientific article chosen by the caniddate among those proposed by the Committee within the each of the three main research topics. Candidates will be asked by the Committee members to discuss and explain the contents of the scientific publication they have selected. During this interview, knowledge of the English language will also be evaluated.	Up to 80 points
	SCHEDULE OF THE ADMISSION EXAMS	
ORAL EXAM	ORAL EXAM DATE: September 20, 2018 TIME: 09:00am PLACE: ROOM A – Podere "La Grande" Parco Area delle Scienze, 173/A – 43124 PARMA - ITALY	
OTHER INFORMATIONS	The applicant MUST indicate in the application his/her preference for one of the three main research topics proposed in the selection announcement (Environmental, Genetic, Biomolecular); the possible candidate's interest for one of the 'bound research topics' may also be specified, if applicable. For foreign candidates, admission examinations may be held in English as per candidate's request.	