

BIOTECHNOLOGY AND LIFE SCIENCE	
CYCLE	XXXVII
COORDINATOR	Prof. Marco VENTURA email: marco.ventura@unipr.it Department of Chemistry, Life Sciences and Environmental Sustainability
DURATION	3 anni
STARTING DATE OF THE PHD PROGRAM	01/01/2022
TRAINING OBJECTIVES	
<p>The PhD in Biotechnology and Biosciences aims to train experts who can carry out advanced research activities in the biological disciplines and biotechnology. The Doctor's research themes concern the study of the function, organization and expression of the genome of microbial, plant and animal organisms (including humans), to deepen their basic knowledge, also in view of possible applications in biotechnology. The methodologies used are mainly those of genetic, microbiology, molecular biology, biochemistry and applied biology. Starting from this common objective and from a highly cross-cutting advanced teaching activity, in order to train PhDs with highly qualified skills in specific areas of Biotechnology and Life Sciences, three main areas of research defined as such: 1) environmental; 2) genetics and microbiology; 3) biochemical-molecular. PhD students will be involved full-time in a research project, to which they will also make critical and proactive contributions. In this way, they will acquire a marked scientific and management autonomy, also thanks to the numerous scientific, national and international collaborations in which they will be involved.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <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 <p>Undergraduate applicants may also submit applications with the obligation of getting their degree by October 31st 2021.</p>

POSITION PUT OUT TO COMPETITION	2	With Scholarship - Action IV.5 - "Doctorates on Green issues of the PON R&I 2014-2020	2
Position with Scholarship LINKED TO SPECIFIC TOPICS			
<p>When registering for the competition, candidates must indicate to the Examining Board, in the specific section of ANNEX A, their interest of being assigned one or more scholarships on a specific topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.</p>			
N°	ACTION	BOUND RESEARCH TOPIC	
2	Action IV.5 - "Doctorates on Green issues of the PON R&I 2014-2020	<ul style="list-style-type: none"> • Microbial biodiversity, environmental sustainability and impact on the life of the members of ecosystems. • Biotechnological strategies for the defense and resilience of plants of agronomic interest. 	

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 18 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 80 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 oral and will consist in reading and translating of a scientific text.</p>
<p>CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model 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>	
<p>MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
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	<p>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).</p>
Research Project	<p>Drawn up according to the format attached to the competition announcement</p> <p>THE EVALUATION OF THE PROJECT WILL TAKE PLACE DURING THE ORAL EXAM</p>
<p>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)</p>	
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters and indexed national publications.
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"> - Periods of study abroad, outside th country of origin (e.g. Erasmus programme or other similar mobility programmes) - Other qualifications attesting the suitability of the applicants (scholarships or research grants, awards, etc.) - Employment contracts at public and / or private research centers

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 2 points
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 30 points; - 110: 28 points; - From 104 to 109: points 4-24 (4 points for each mark unit); - Until 103: 3 points.	Up to 30 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: - 30/30: 28 points; - From 24/30 to 29/30: points 4-24 (4 points for each unit average score)	Up to 28 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae)	Up to 4 points
Scientific publications	Publications in <i>peer-reviewed</i> international journals: 0.5 points for each publication (for evaluation purposes it is mandatory to attach a pdf copy of each publication to the application)	Up to 2 points
Communications to conferences, publication in indexed national journals, book chapters	0.5 point for each conference abstract, publication in indexed national journals or book chapters (for evaluation purposes it is mandatory to attach a pdf copy of each term to the application)	Up to 2 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation and discussion 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 related topics	Project evaluation score: <ul style="list-style-type: none"> scientific value and originality of the proposal: points 10. articulation of the proposal: points 10. feasibility of the proposal: points 10 consistency with the related issues: points 45 Knowledge of the foreign language: points 5	Up to 80 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	26 October 2021
	TIME	12.00 (Italian Time)
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability Aule Poliuso La Grande – Aula B Parco Area delle Scienze – Campus Universitario 43124 PARMA - ITALY
OTHER INFORMATION	For foreign candidates it is possible to carry out the admission examination exclusively in English. For Italian candidates it will be possible to take the admission examination in Italian or in English at the candidate's choice	



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