



BIOTECHNOLOGY AND LIFE SCIENCES		
Cycle	XXXIII	
Duration	3 years	
Coordinator	Prof. Simone OTTONELLO – Department of Chemistry, Life Sciences and Environmental Sustainability E-mail: simone.ottonello@unipr.it	
Research Topics (the applicant MUST indicate one research topic)	<ul style="list-style-type: none"> • Environmental • Genetic • Biomolecular 	
Training objectives	The main goal of the PhD course in Biotechnology and Biosciences is to train experts capable of carrying out independent research in the fields of biological sciences and molecular biotechnologies. The research areas of interest are focused on the study of the function, organization, and regulation of the genome of microbial organisms, plants and animals, for both basic science and applied purposes. Key methodologies and experimental approaches are centered on genetics, molecular biology, biochemistry, and applied biology. To pursue these general objectives, with the final aim of training and forming highly qualified PhD laureates, three distinct but complementary research areas been identified as main frameworks: 1) environmental; 2) genetic; and 3) biochemical-molecular sciences. Students will develop a full-time research project while also providing critical contributions, thus achieving scientific and management independency, also taking advantage of the many international scientific collaborations in which they will be involved.	
Academic degree required	Laurea degree pursuant to the previous University system, Laurea specialistica or Laurea magistrale, or a foreign academic qualification that has been recognized as equivalent.	
POSITIONS PUT OUT TO COMPETITION		
With Scholarship	4	
Without Scholarship	1	
TOTAL	5	
KIND OF SCHOLARSHIP		
N°	<i>Funding entity</i>	<i>Research Topic, if any</i>
3	Scholarship Ministerial funds	--
1	Co-funded by Fondazione Cariparma (Fellowship within the VISITING PROFESSOR TeachInParma exchange program, which involves a foreign co-tutor (Prof. Ditlev BRODERSEN, University of Ahrus, Denmark) and requires a <u>mandatory stage</u> of at least 6 months in the foreign laboratory at the University of Ahrus)	<ul style="list-style-type: none"> • Structure-function determination of multifunctional enzymes for therapeutic use



ADMISSION PROCEDURES		
<p>Assessment of QUALIFICATIONS: up to 40 points ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120</p>		
Foreign Language	<p>Language the fluency of which shall be assessed during the oral exam: ENGLISH. English language evaluation will be oral and will consist in the reading and translation of a scientific text.</p>	
<p>Possibility of videoconference for candidates residing or temporarily abroad (the relevant request shall be submitted using the form attached to the competitive examination announcement)</p>		YES
INTERVIEW EXAMINATION MAY ALSO BE HELD IN ENGLISH		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
Graduation thesis	Abstract of the graduation thesis (mandatory qualification)	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 (for applicants not yet graduated but who will attain the degree not later than 31 October 2017)	Score related to the average of the exam marks: - 30/30: 18 points; - From 21/30 to 29/30: 2 points for each mark unit (0-16 points)	Up to 18 points
Curriculum Vitae et studiorum and other qualifications	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 (mandatory qualification)	Up to 6 points
Scientific publications	Publications with <i>referee</i> : 2 points for each publication (for assessment purposes a pdf. copy must be attached to the online application).	Up to 6 points
Congress Abstracts	1 point for each abstract (for assessment purposes a pdf. copy must be attached to the online application).	Up to 3 points
ADMISSION EXAM SCHEDULE SCHEDULE		
ORAL EXAM	<p>ORAL EXAM DATE: 20 September 2017 TIME: 09:30 PLACE: CLASS-ROOM A – Podere La Grande Parco Area delle Scienze, 173/A – 43124 PARMA - ITALY</p>	
Oral Exam Topics	<p>The Oral Exam will be based on the critical reading of a scientific publication chosen by the Candidate among those proposed by the Committee for each research area (Environmental, Genetic, and</p>	



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	<p>Biochemical-Molecular sciences), one of which must be selected by the Candidate.</p> <p>The Candidates will illustrate and discuss the contents of the selected scientific publication in front of the Admission Committee. During the oral examination, the knowledge of the English Language will also be evaluated.</p>
OTHER INFORMATIONS	<p>The applicant must indicate in the application his/her preference for a specific research topic among those proposed in the selection announcement (Environmental, Genetic, Molecular).</p>