

<b>FOOD SCIENCE</b>		
<b>Cycle</b>	<b>XXXI</b>	
<b>Duration</b>	3 years	
<b>Supervisor</b>	Prof. Furio Brighenti – Department of Food Sciences E-mail: <a href="mailto:furio.brighenti@unipr.it">furio.brighenti@unipr.it</a>	
<b>Research Topics</b>	<ol style="list-style-type: none"> <li>1) Bioavailability, metabolism and biological activity of plant food phytochemicals.</li> <li>2) Biofilm by foodborne pathogens and factors involved in the formation.</li> <li>3) Cyclic and other secondary fatty acids in foods: origin, bioactivity and applications as markers of quality</li> <li>4) Gluten free products: effect of formulation and processing on rheological and structural properties</li> <li>5) <i>Lactobacillus helveticus</i> biodiversity: continuity and diversity of the species across changing food ecosystem</li> <li>6) Metabolic responses in fermented foods: a picture of metabolic trait to starter selection</li> <li>7) Technologies for the improvement of animal welfare in relation to milk quality</li> </ol>	
<b>Training objectives</b>	Acquisition of the theoretical and experimental knowledge to interpret the innovation needs and to contribute to the food sector development, from a multidisciplinary perspective (chemistry, agronomy, food microbiology, food technology, sensory analysis, nutrition, marketing and food safety).	
<b>Academic degree required</b>	Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent	
<b>Positions put out to competition</b>		
<b>With scholarship</b>	6	
<b>Without scholarship</b>	1	
<b>TOTAL</b>	<b>7</b>	
<b>Scholarship types</b>	<b>No.</b>	<b>Description</b> (funding entity and research topic, if any)
	<b>3</b>	Scholarships of the University of Parma
	<b>2</b>	Funded by the Department of Food Science
	<b>1</b>	Co-funded by Fondazione Cariparma
<b>Admission procedures</b>	<b>Assessment of QUALIFICATIONS:</b> up to 30 points <b>ORAL EXAM:</b> up to 90 points  <b>Minimum score for ELIGIBILITY:</b> 70/120	

<b>Interview via teleconference for candidates residing abroad</b>	<p style="text-align: center;">THE ORAL EXAM MAY BE HELD  <u>VIA VIDEOCONFERENCE FOR CANDIDATES RESIDING NON-EU.</u>          THE INTERVIEW MAY BE HELD ALSO IN ENGLISH.          (the relevant request shall be submitted using the form attached to the competitive examination announcement)</p>		
<b>List of QUALIFICATIONS to be submitted and their assessment</b>	<b>Graduation thesis</b>	<b>Coherence of the theme of the graduation thesis with the educational objectives of the PhD and grade obtained (mandatory qualification)</b>	Up to 10 points
	<b>Curriculum Vitae et studiorum and other qualifications</b>	Covering the candidate's university career and postgraduate experience (evidenced at least through substitute statement ) (mandatory qualification)	Up to 8 points
	<b>Statement of Research Interest</b>	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the doctorate program and at describing his/her specific research interests	Up to 5 points
	<b>Scientific publications</b>	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	Up to 5 points
	<b>Reference letters</b>	a maximum of 2 written by University Teachers, Researchers, Heads of Italian and foreign Research Centers	Up to 2 points
<b>Foreign language</b>	Language the fluency of which shall be assessed during the Oral Exam: <b>ENGLISH</b>		
<b>Schedule of the admission exam</b>	<b>ORAL EXAM DATE:</b> 16 September 2015: <b>TIME:</b> 9:30am <b>PLACE:</b> CLASSROOM C – Department of Food Sciences Parco Area delle Scienze, 59/A – 43124 PARMA, ITALY		
<b>Oral Exam topics</b>	<b>The Oral Exam will consist:</b> 1. Critical reading of a scientific publication chosen from among those proposed by the Commission within the themes of of research proposals 2. Next talk about the contents of the scientific publication chosen by each candidate.		
<b>OTHER INFORMATION</b>	<b>Attached to the application order of interest of the candidate for the 7 research themes proposed by the notice (1 to 7 in descending order of preference)</b>		