FOOD SCIENCE					
Cycle		XXXII			
Duration	Ouration				
Coordinator		Prof. Furio BRIGHENTI – Department of Food Science E-mail: furio.brighenti@unipr.it			
Research Topics (the applicant MUST indicate one research topic)		 Novel non-targeted methodologies and big data management pplied to sensomics, safety and authenticity of food Insect biorefinery: from waste to high-added value products like proteins and chitin Characterization of the protein fraction extracted from insects for feed and food applications Co-Prdoducts recovery from cereals to increase sustainability and competitiveness of the agro-food chain Modeling of heat and matter exchange Life-cycle assessment in confectionary products and ingredients Defining intervention strategies for sustainable food systems, consumption and diet Biotechnologies for hop selection Identification and characterisation of emerging risks in food production chain (Joint Program with University Cattolica Sacro Cuore of Piacenza and EFSA) Structure-activity correlation in food allergenic proteins 			
Training objectives		Acquisition of theoretical and experimental knowledge to interpret innovation needs and to contribute to developments in the food sector, from a multidisciplinary viewpoint (chemistry, agronomy, food microbiology, food technology, sensory analysis, human nutrition, marketing and food inspection).			
Academic degree required specialisti		specialistica or	ea pursuant to the previous university system, laurea cialistica or laurea magistrale, or a foreign academic qualification has been recognized as equivalent.		
POSITIONS PUT OUT TO COMPETITION					
With Scholarship				9	
Reserved to employees of companies having a "Industrial Engineering Doctorate" arrangement			1		
			TOTAL	10	
KIND OF SCHOLARSHIP					
N° F	Funding entity		Research Topic, if any		
3 Scholarship Mi	Scholarship Ministerial funds		 Modeling of heat and matter exchange Defining intervention strategies for food systems Biotechnologies for hop selection 		
1 Scholarship Ur	Scholarship University funds		Structure-activity correlation in food allergenic proteins		

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1	Funded by EMILIA ROM the Project "Safety, qual of regional food cha competitiveness"	ity and integration	New challenges and needs of the ceral agro-food chain to increase competitiveness while ensuring safety and quality		
1	Funded by Department of within the Project EU H2		Characterization of the protein fraction of the insects		
1	Funded by VITO Visione Technology NV (Belgium)		Insect biorefinery		
1	Funded by Barilla S.p.A.		Novel non-targeted methodologies		
1	Co-funded by Fondazion	e Cariparma	Identification and characterization of food risks		
F	Positions reserved to e		mpanies having a "Industrial arrangement	Engineering	
N°	Company		Research Topic, if any		
1	SOREMARTEC ITALIA s.r.l.		- Life-cycle assessment in confectionary products and ingredients		
		ADMISSION	PROCEDURES		
Assessment of QUALIFICATIONS: up to 30 points ORAL EXAM: up to 90 points					
	ı	Minimum score fo	r ELIGIBILITY: 70/120		
Fore	Foreign Language Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.				
Possibility of videoconference for candidates RESIDING NON-EU. (the relevant request shall be submitted using the form attached to the competitive examination announcement)					
	THE	INTERVIEW MAY B	E HELD ALSO IN ENGLISH		
	LIST OF QUALIFICA	ATIONS TO BE S	UBMITTED AND THEIR ASSE	ESSMENT	
Graduation thesis		Coherence of the theme of the graduation thesis with the educational objectives of the PhD and grade obtained (mandatory qualification)		Up to 10 points	
studiorum and other		Written in English and covering the candidate's university career and postgraduate experience (evidenced at least through substitute statement) (mandatory qualification)		Up to 8 points	
Statement of Research Interest English, aime reasons to at		English, aimed at reasons to attend	num 1 page – in Italian or in explaining the candidate's the doctorate program and at specific research interests	Up to 5 points	
		al and international journals, at conferences or symposia,	Up to 5 points		
Reference Letters		a maximum of 2 written by University Teachers, Researchers, Heads of Italian and foreign Research Centers		Up to 2 points	

SCHEDULE OF THE ADMISSION EXAMS				
ORAL EXAM	ORAL EXAM DATE: 20 September 2016 TIME: 9:00am PLACE: CLASSROOM A – Didactic Center of Department of Food Science (Building 19 Food Project University) Parco Area delle Scienze, 59/A – 43124 PARMA, ITALY			
Oral Exam topics	 The Oral Exam will consist: Critical reading of a scientific publication chosen from among those proposed by the Commission within the themes of of research proposals; Next talk about the contents of the scientific publication chosen by each candidate English Language proficiency 			
OTHER INFORMATIONS	For foreign candidates, the admission examinations may be held in English at the candidate's choice.			