

	FOOD SCIENCE			
CYCLE	XXXVII			
COORDINATOR	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: <u>chiara.dallasta@unipr.it</u>			
DURATION	3 anni			
STARTING DATE OF THE PHD PROGRAI	M 01/11/2021			
PARTNER INSTITUTION FOR UNIVERSIT	<ul> <li>Y</li> <li>Universitat Rovira i Virgili (Spagna)</li> <li>Universidad Politècnica de Cartagena (Spagna)</li> <li>Universidad de Córdoba (Spagna)</li> </ul>			
RESEARCH TOPICS (The candidate MUS	T mandatorily indicate one research topic in the ANNEX A)			
<ol> <li>Indigestible polysaccharides/oligosaccharides from different food sources: extraction, enzymatic hydrolysis and structural characterization</li> <li>Using consumer science to improve healthy and sustainable eating behaviour</li> <li>Metabolic phenotypes related to dietary (poly)phenols and their impact on cardiometabolic health</li> <li>Bio-sustainable technologies to produce raw materials and food products with improved physico-chemical, nutritional and safety properties</li> <li>Decreasing food allergenicity through process-induced tailored protein modification in legumes and alternative protein sources</li> <li>The right to food and its dimensions as a basis to promote sustainable agrifood systems</li> <li>Development of targeted / untargeted UHPLC-HRMS methods for the determination of quality in hazelnut and finished products of the confectionery industry</li> <li>Computational approaches integrated to biomolecular technologies to study viral infections of food origin: virulence factors and identification of food components with potential antiviral activity</li> <li>Establishing a strong and lasting international training network for innovation in food and juice industries: a 4D-research approach for fruit juice processing</li> <li>Large-scale phenotyping using milk Fourier Transform Infrared Spectroscopy and factors affecting the accuracy of predictions</li> <li>Development of welfare indicators for lactating cows at the slaughterhouse</li> </ol>				
TRAINING OBJECTIVES The PhD candidates will acquire ad	vanced theoretical and practical expertise to provide innovative approaches and			
methodologies in the agro-food sector,				
ADMISSION REQUIREMENTS - La - La - Se de Unde	dless of age and citizenship, applicants holding at least one of the following academic ications can apply for admission: urea specialistica or Laurea magistrale (second cycle master's degree) urea Vecchio Ordinamento (degree obtained under the previous Italian regulations); cond cycle Master's degree obtained abroad, equivalent to the above mentioned Italian egrees and recognized as suitable for the admission to doctoral program rgraduate applicants may also submit applications with the obligation of getting their ie by <b>October 31<sup>st</sup> 2021.</b>			



## UNIVERSITÀ DI PARMA

			With Scholarship		8	
POSITION PUT OUT TO COMPETITION	ION PUT OUT	11	Reserved to holders of scholarship w	ithin specific international mobility programs	1	
	11	Reserved to holders of scholarship fu	inded by foreign States	1		
			Reserved to employees of companies having an "Industrial Doctorate" arrangement		1	
			Position with Schol	arship		
N°	Funding entity Research Topic, if any					
4	Scholarship fu	nded by U	niversity of Parma (Ministerial funds)	<ul> <li>Food Chemistry</li> <li>Consumer Science</li> <li>Food Technology</li> <li>Human Nutrition</li> </ul>		
1	Scholarship co	-funded b	y Fondazione Cariparma	Bioorganic Chemistry		
	Pos	sition with	Scholarship LINKED TO SPECIFIC TOP	CS (art. 11 of the Competition notice)		
schola	arship dedicated	d to a spe	ecific research topic The Board will	r interest to the Examination Board in being assi express its judgement on eligibility to be assign and specific aptitudes of the applicants.		
N°		ŀ	Funding entity	BOUND RESEARCH TOPIC		
1	Scholarship partly financed with UNIVERSITY funds and co- financed by the Department of Veterinary Science			• Large-scale phenotyping using milk Fourier Transform Infrared Spectroscopy and factors affecting the accuracy of predictions		
1	Scholarship fu	nded by So	oremartec Italia S.p.A.	• Development of targeted / untargeted UHPLC- HRMS methods for the determination of quality in hazelnut and finished products of the confectionery industry		
	Scholaship fu	nded by El	MILIA ROMAGNA REGION			
	0	RegioneEmili		Computational approaches integrated to		
1	The assignme	nt of this s residence	scholarship is subject to the e or domicile of the beneficiary in	biomolecular technologies to study viral infection of food origin: virulence factors and identificatio of food components with potential antiviral activit		
	Reserve	ed to HOLI	DERS OF SCHOLARSHIP WITHIN SPECIF	IC INTERNAZIONAL MOBILITY PROGRAMS		
N°			Agreements/Cooperations	/Mobility Programs		
1	Reserved to holders under the PROJECT UE H2020 – MSCA ITN "Innovation Training Netoworks" INT-ETN HiStabJuice project 956257					
	Position reserved to HOLDERS OF SCHOLARSHIP FUNDED BY FOREIGN STATES					
N°	University or Foreign State					
1	Reserved to holders or with equivalent financial support within the RESEARCH PROJECT of FAO Chile Food Systems Consultant ""The right to food and its dimensions as a basis to promote sustainable agrifood systems"					
Position reserved for "INDUSTRIAL DOCTORATE" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)						
N°	Company/Institution					
1	Reserved to employees of Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna – IZSLER Specific Topic: "Welfare indicators for farmed dairy cows and their collection in slaughterhouses"					



ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 30 points (a minimum score of 18 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 90 points Minimum score for ELIGIBILITY: 70/120			
ADMISSION PROCEDURES for position reserved to holders of scholarship fur by foreign States and/or scholarship holders within specific international mobility programs		nip funded rship	Assessment of QUALIFICATIONS: up to 120 points Minimum score for ELIGIBILITY: 70/120		
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: <u>ENGLISH</u> . The evaluation of the knowledge of this language will be oral and will consist in reading and translatin of a scientific test. For foreign candidates, basic knowledge of ITALIAN LANGUAGE will also be assessed.				
(Candidates who in	CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)				
		-	ONS TO BE SUBMITTED AND THEIR ASSESSMENT		
ANNEX A					
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 th		the draft of	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		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).			
focused on It should originality notice and Research Project Context, signification The research		focused on It should originality notice and context, sig <u>The resear</u> the doctor	ch project shall consist of a maximum of 2 pages, be written in Italian or in English, an original research topic <b>(unpublished, developed personally by the candidate.</b> <b>be noted that the Examination Board can use tools useful for verifying the</b> <b>of the submitted Project)</b> concerning one of the specific topic indicated in this d it shall be structured as follows: introduction of the problem in the scientific gnificance of the problem, expected results, argumentation. <u>icch project does not represent a constraint with respect to the following choice of</u> <u>ral thesis</u> , that shall be defined together with the supervisor and approved by the Board;		



## 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)

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Statement of Research interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests				
Scientific Publications		Articles and/or reviews in scientific journals with peer reviewing, scientific book chapters with national or international circulation			
Reference Letters		Maximum no. 1 letter written by professors or researchers or experts in the research areas working in public or private research institutions			
Other Academic qualifications		First or second level Master's degree obtained in Italy and/or specialization degree in subjec consistent with the research topics of this PhD program			
Other experiences       -       Language proficiency cartificates         training, work,       -       Periods of study abroad, outside th country of origin (e.g. Erasmus programme or oth mobility programmes)         esearch, teaching, etc.)       -       Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)					
		EVALUATION CRITERIA			
QUALIFICATION		EVALUTATION CRITERIA	POINTS		
Curriculum Vitae et studio	orum	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. Voting examinations and graduation marks will be the most relevant element of the evaluation.	Up to 20 points		
Graduation thesis		Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae)			
Statement of Research Int	terest	Originality and research attitude			
Scientific publications		International peer-reviewed papers: up to 2 points National peer-reviewed papers: up to 1 point Book chapters: up to 1 point	Up to 3 points		
Reference Letters		Motivation and research attitude	Up to 1 point		
	The Re	esearch Project will be evaluated during the Oral Exam			
ORAL EXAM		EVALUATION CRITERIA	POINTS		
The ORAL EXAM inc	ludes the	<ul> <li>English reading and speaking and for foreign candidates also</li> </ul>			

The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul> <li>English reading and speaking and for foreign candidates also Italian language: up to 10 points</li> <li>ability to argue on the interpretation of the scientific</li> <li>impact of the research described in the original proposal: up to 50 points</li> <li>expertise in the specific research field: up to 30 points</li> </ul>	Up to 90 points		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT Positions reserved to holders of scholarship funded by Foreign States or Reserved to holders of scholarship within specific international mobility programs				
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. Voting examinations and graduation marks will be the most relevant element of the evaluation.	Up to 36 points		



Research Project			Congruence with the program research proposed and with the research topics of the PhD course. Clarity of objectives and definition of success indicators. Implementation and sustainability of the feasibility plan	
Statement of Research Interest		t	Originality and research attitude Up to 10	
Scientific Publications			International peer-reviewed papers: up to 2 points National peer-reviewed papers: up to 1 point Book chapters: up to 1 point	Up to 3 points
Reference Letters			Motivation and research attitude	Up to 1 point
			SCHEDULE OF THE ADMISSION EXAMS	
	DATE	13 September 2021 (with possible extension to 16 September 2021)		
ORAL EXAM	TIME	09:00 am (Italian time)		
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A – Campus 43124 PARMA - ITALY		
OTHER INFORMATION Englis		Englis	preign candidates it is possible to carry out the admission examin sh, after checking the basic knowledge of ITALIAN LANGUAGE. For e possible to take the admission examination in Italian or in English e.	Italian candidates it