

	FOOD SCIENCE				
CYCLE	XXXVIII				
COORDINATOR	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: <u>chiara.dallasta@unipr.it</u>				
DURATION	3 years				
STARTING DATE OF THE PHD PROGRAM	01/11/2022				
<b>RESEARCH TOPICS</b> (The candidate <b>MUST mandatorily</b> indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)					
<ul> <li>RESEARCH PROJECT in the relevant field)</li> <li>Development of new approaches to elucidate the metabolism of nutritionally relevant bioactive compounds</li> <li>Study and characterization of innovative ingredients recovered from plant material, to be applied in novel food, through advanced chromatographic techniques and high resolution mass spectrometry</li> <li>Antimicrobial resistance throughout the food chain</li> <li>Microorganisms engineering for the production of metabolites of interest and transformation of molecules during fermentation processes</li> <li>Criteria to select and use lactic acid bacteria to increase the sustainability, technological, nutritional, and functional properties of products and by-products throughout the agri-food chain.</li> <li>Design and development of meat and dairy analogues using vegetable proteins from upcycled sources</li> <li>Enzyme assisted extraction and modification of lignocellulosic biomasses for the production of functional oligosaccharides and other nutraceutical compounds</li> <li>Switching Mediterranean consumers to Mediterranean sustainable healthy dietary patterns</li> <li>Databases and analytical methods for nutritionally relevant plant bioactives and the food-microbiome-host interplay</li> <li>Fertilizers from agri-food wastes for the intensification of sustainability in agriculture</li> <li>Digital solutions for on-farm crop quality assessment</li> <li>Innovative bioprocesses and extraction techniques of bioactive compounds from agricultural biomasses</li> </ul>					
TRAINING OBJECTIVES					
The PhD candidates will acquire advanced theoretical and practical expertise to provide innovative approaches and methodologies in the agro-food sector, under a multidisciplinary perpective.					
qualification         -       Laureation         -       Laureation         ADMISSION REQUIREMENTS       -	s of age and citizenship, applicants holding at least one of the following academic ons can apply for admission: a specialistica or Laurea magistrale (second cycle master's degree) a Vecchio Ordinamento (degree obtained under the previous Italian regulations); d cycle Master's degree obtained abroad, equivalent to the above mentioned Italian es and recognized as suitable for the admission to doctoral program				

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is **by 24.10.2022** 

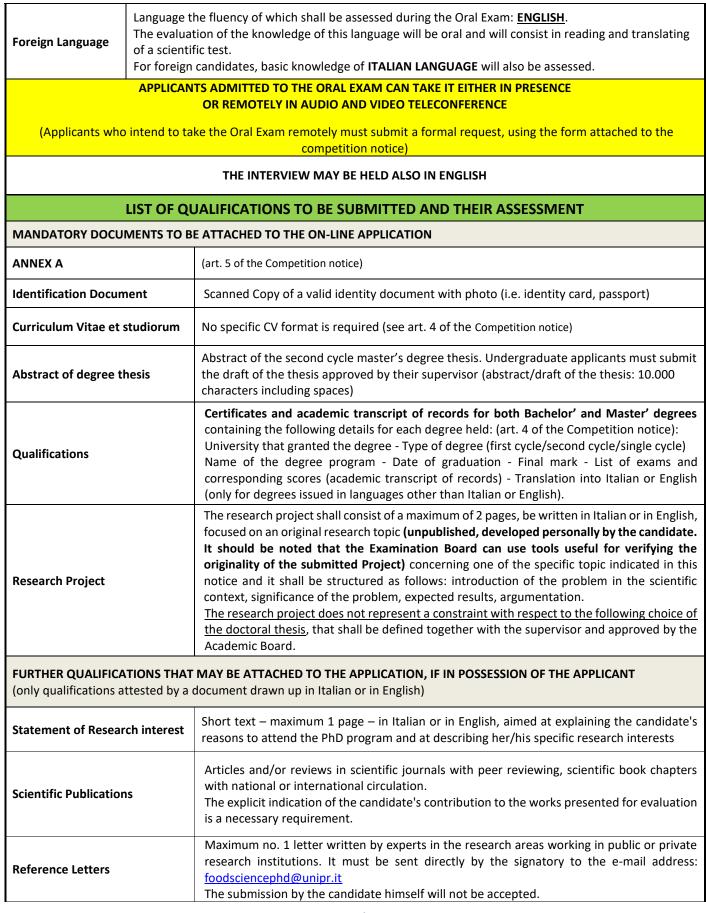
POSITIONS PUT OUT TO COMPETITION		12	With Scholarship		12
Position with Scholarship					
N°	° Funding entity			Research Topic	
3	Scholarship funded by University of Parma (Ministerial funds)			<ul><li>HUMAN NUTRITION</li><li>FOOD CHEMISTRY</li><li>FOOD INSPECTION</li></ul>	



1	Scholarship co-funded by Fondazione Cariparma		FOOD MICROBIOLOGY		
	Position with Scholarship LINKED TO SPECIFI	СТОРІ	CS (art. 11 of the Competition notice)		
resea	During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.				
N°	Funding entity		BOUND RESEARCH TOPIC		
1	Scholarship funded by Food and Drug Department (funds Project "PRIMASWITCHtoHEALTHY")		witching Mediterranean consumers to Mediterranean ustainable healthy dietary patterns		
1	Scholarship funded by Food and Drug Department funds Project "FARE CARE-DIET")		• Databases and analytical methods for nutritionally relevant plant bioactives and the food-microbiome-host interplay		
1	Scholarship partly financed with UNIVERSITY funds and co-financed by Food and Drug Department		<ul> <li>Design and development of meat and dairy analogues using vegetable proteins from upcycled sources</li> </ul>		
1	Scholarship funded by Food and Drug Department	li	nzyme assisted extraction and modification of gnocellulosic biomasses for the production of functional ligosaccharides and other nutraceutical compounds		
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 "PNRR Research") Finanziato dall'Unione europea NextGenerationEU	tł fu	riteria to select and use lactic acid bacteria to increase ne sustainability, technological, nutritional, and unctional properties of products and by-products proughout the agri-food chain		
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH Finanziato dall'Unione europea NextGenerationEU		ertilizers from agri-food wastes for the intensification of ustainability in agriculture		
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH Finanziato dall'Unione europea NextGenerationEU	• D	igital solutions for on-farm crop quality assessment		
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH Finanziato dall'Unione europea NextGenerationEU		novative bioprocesses and extraction techniques of ioactive compounds from agricultural biomasses		

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
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Other Academic qu	her 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							
	<ul> <li>Language proficiency certificates</li> <li>Periods of study abroad, outside the country of origin (e.g. Erasmus programme or othe similar mobility programmes)</li> <li>Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.</li> </ul>							
QUALIFICATION Curriculum Vitae et studiorum			EVALUTATION CRITERIA 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. The marks of the exams and the graduation mark and the consistency of the Master's Degree thesis with the doctoral program research topics will be the most relevant element of the evaluation.	POINTS Up to 22 points				
Statement of Resea	arch Interest		Originality and motivation to research	Up to 2 points				
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				
<b>Reference Letters</b>			Attestation of motivation and aptitude for the research	Up to 2 points				
Other Academic qualifications			in subjects related to the research areas of the PhD course	Up to 1 point				
Other experiences			Aptitude to research activity and congruence with the research topics and the obctives of the PhD course	Up to 2 points				
		The Re	esearch Project will be evaluated during the Oral Exam					
ORAL EXAM			EVALUATION CRITERIA	POINTS				
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		oject bility ntific neral	<ul> <li>English reading and speaking and for foreign candidates also Italian language: up to 10 points</li> <li>research project presentation: max 50 points</li> <li>general knowledge of issues connected to the PhD course: max 30 points</li> </ul>	Up to 90 points				
			SCHEDULE OF THE ADMISSION EXAMS					
	DATE	19 Se	ptember 2022 (with possible extension in the following days)					
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 English		Englis will b	oreign candidates it is possible to carry out the admission examination exclusively in sh, after checking the basic knowledge of ITALIAN LANGUAGE. For Italian candidates it we possible to take the admission examination in Italian or in English at the candidate's e.					