

FOOD SCIENCE	
CYCLE	XXXVIII
COORDINATOR	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: chiara.dallasta@unipr.it
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2023
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Untarget approaches for the assessment of food authenticity and safety • Identification, Assessment & Mitigation of Selected Emerging Food Contaminants • Tailoring qualitative properties of foods by technology: use of innovative technologies for improving safety, quality and sustainability • Investigation of in vivo endogenous and/or exogenous production of phenolic metabolites using (un)targeted metabolomics • Evaluation, development and application of educational and empowerment models aimed at promoting healthy and sustainable diets. • Fertilizers from agrofood wastes to support a more sustainable agriculture 	
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 perspective.	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>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 21.12.2022</p>

POSITIONS PUT OUT TO COMPETITION	6	With Scholarship	6
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice) (Modified by Rector Decree n. 2098 of 22.11.2022)			
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	PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research	Untarget approaches for the assessment of food authenticity and safety (VET04 – Food Hygiene) Metabolomics is an innovative frontier in food safety and quality research. The PhD project will provide insights on how this method can help	

	<p>centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</p> 	<p>determine the chemical hazards present in foods of animal origin. Furthermore, the method will be applied as a way to overcome the classical tests based on target chemistry which are nowadays used in order to control the presence of residues of veterinary drugs in foods.</p>
1	<p>PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</p> 	<p>Identification, Assessment & Mitigation of Selected Emerging Food Contaminants (CHIM10 – Food Chemistry) The project aims to combat emerging chemical hazards in food chains through the development of cutting-edge identification/assessment methodologies. Industrial case-studies will cover i.e. emerging natural toxins, unregulated process contaminants, and adulterants in the food production chain.</p>
1	<p>PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</p> 	<p>Tailoring qualitative properties of foods by technology: use of innovative technologies for improving safety, quality and sustainability (AGR15 – Food Technology) The objective of this PhD program is to investigate and apply innovative technologies on different food categories for improving several qualitative aspects of foods (safety, sustainability as well as sensorial, technological, functional and nutritional).</p>
1	<p>PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</p> 	<p>Investigation of in vivo endogenous and/or exogenous production of phenolic metabolites using (un)targeted metabolomics (MED49 – Human Nutrition) The aim of the project is to investigate the prevalence of endogenous phenolic metabolites in comparison to their exogenous production, using (un)targeted metabolomics.</p>
1	<p>PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</p> 	<p>Evaluation, development and application of educational and empowerment models aimed at promoting healthy and sustainable diets (MED49 – Human Nutrition) The student will be required to participate in research related to the evaluation, development and application of educational and empowerment models aimed at promoting healthy and sustainable diets, in specific target populations. Such models will be developed with the support of advanced and innovative technological tools and systems for the evaluation of user perceptions and with the involvement of key stakeholders in the field of the agri-food system.</p>

1	<p>PhD scholarship funded within the PNRR research program called "National Research Centre for Agricultural Technologies" - Investment 1.4 "Enhancement of Research Facilities and the Creation of R&D "National Champions" on Certain Key Enabling Technologies" – Notice MUR 3138 del 16/12/2021 - funded by the European Union – NextGenerationEU (Cup Code D93C22000420001)</p>	<p>Fertilizers from agrofood wastes to support a more sustainable agriculture</p> <p>Using a multidisciplinary approach, the project is aimed at characterising different biochar categories obtained from agro-food wastes, and to evaluate their effects in term of quality and yield performance of selected crops.</p>
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ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 30 points (a minimum score of 18 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 90 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.</p> <p>The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific test.</p> <p>For foreign candidates, basic knowledge of ITALIAN LANGUAGE will also be assessed.</p>
<p>APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p>LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p>MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
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	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	<p>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):</p> <p>University that granted the degree - Type of degree (first cycle/second cycle/single cycle)</p> <p>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).</p>
Research Project	<p>The research project shall consist of a maximum of 2 pages, be written in Italian or in English, focused on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use tools useful for verifying the originality of the submitted Project) concerning one of the specific topic indicated in this notice and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation.</p> <p><u>The research project does not represent a constraint with respect to the following choice of the doctoral thesis</u>, that shall be defined together with the supervisor and approved by the Academic Board.</p>

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)		
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. The explicit indication of the candidate's contribution to the works presented for evaluation is a necessary requirement.	
Reference Letters	Maximum no. 1 letter written by experts in the research areas working in public or private research institutions. It must be sent directly by the signatory to the e-mail address: foodsciencephd@unipr.it The submission by the candidate himself will not be accepted.	
Other 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	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
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. 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.	Up to 22 points
Statement of Research 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
Reference Letters	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 objectives of the PhD course	Up to 2 points
The Research 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 intended 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 style="list-style-type: none"> ○ English reading and speaking and for foreign candidates also Italian language: up to 10 points ○ research project presentation: max 50 points ○ general knowledge of issues connected to the PhD course: max 30 points 	Up to 90 points

SCHEDULE OF THE ADMISSION EXAMS

ORAL EXAM	DATE	5 December 2022
	TIME	10:00 AM (Italian Time)
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION	For foreign candidates it is possible to carry out the admission examination exclusively in English, after checking the basic knowledge of ITALIAN LANGUAGE. For Italian candidates it will be possible to take the admission examination in Italian or in English at the candidate's choice.	