



FOOD SCIENCE	
Cycle	XXXVI
Coordinator	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: chiara.dallasta@unipr.it
Duration	3 years
Starting date of the PhD program	01/11/2020
Partner Institution for University Cooperation Agreements	<ul style="list-style-type: none">• Universitat Rovira i Virgili (Spagna)• Universidad Politécnica de Cartagena (Spagna)
Research Topics	
<ul style="list-style-type: none">• The use of genomics to tackle the genetic background of cheese making traits• Metabotyping by production of phenolic metabolites for personalized nutritional approaches• Microstructure modification in vegetables undergoing conventional, innovative and non-thermal processing• New tools for authentication and traceability to assure the integrity of food chain• Complex microbial starters as a tool for boosting innovative and sustainable food production• Innovation in fruits and vegetables processing: application and optimization of thermal and non-thermal emerging technologies• High Resolution Mass Spectrometry and food fraud: analytical methods development and food safety	
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	
Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: <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 Undergraduate applicants may also submit applications with the obligation of getting their degree by October 31st 2020 .	
POSITIONS PUT OUT TO COMPETITION	
With Scholarship	5
Reserved to employees of companies having an "Industrial Doctorate" arrangement	2
TOTAL	7



Positions with University Scholarship		
N°	Funding entity	Research Topic
4	Scholarship Ministerial funds	<ul style="list-style-type: none"> • Human Nutrition • Food Microbiology • Food Inspection • Animal Nutrition
1	Scholarship co-funded by Fondazione Cariparma	<ul style="list-style-type: none"> • Agronomy and food technology
Position reserved for "Industrial Doctorate" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)		
N°	Company/Institution	Research Topic
1	Reserved to employees of John Bean Technologies S.p.A.	<ul style="list-style-type: none"> • Innovation in fruits and vegetables processing: application and optimization of thermal and non-thermal emerging technologies
1	Reserved to employees of Waters S.p.A.	<ul style="list-style-type: none"> • High Resolution Mass Spectrometry and food fraud: analytical methods development and food safety
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. The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific test. For foreign candidates, basic knowledge of ITALIAN LANGUAGE will also be assessed.</p>	
APPLICANTS SHALL TAKE THE EXAM REMOTELY.		
For further details please refer to the relevant provision laid down in art. 7 of the Call for applications.		
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
Mandatory documents to be attached to the on-line application		
<ul style="list-style-type: none"> – ANNEX A (art. 5 of the Call for Applications) – Scanned Copy of a valid identification document with photo – Curriculum Vitae et studiorum (art. 4 of the Call for Applications) – Abstract of the second cycle master's degree thesis. Undergraduate applicants may submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces) – Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Call for Applications): 		



- 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)

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)

- **Research Project:** The research project shall consist of a maximum of 2 pages, be written in English, focused on an original research topic (**unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT 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. It does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board;
- **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:** a maximum 1 letter written by professors or researchers or experts in the research areas working in public or private research institutions;
- **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
- **Mobility experience abroad** (e.g. Erasmus or similar);
- **Any other document** certifying the applicant's training and abilities (grants, 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. 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)	Up to 4 points
Statement of Research Interest	Originality and research attitude	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	Motivation and research attitude	Up to 1 point



The Research Project will be evaluated during the Oral Exam		
ORAL EXAMINATION	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○ ability to argue on the interpretation of the scientific○ impact of the research described in the original proposal: up to 50 points○ expertise in the specific research field: up to 30 points	Up to 90 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	16 September 2020 (with possible extension in the following days)
	TIME	09:30 am (Italian time)
	PLACE	remotely using the Microsoft Teams platform
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.	