



TABLE 5 – PhD Programme in FOOD SCIENCE

THE PhD PROGRAMME	
Administrative location	University of Udine - Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) – via delle Scienze n. 206, 33100 Udine, ITALY (tel. +39 0432 558600)
Associated location	-
Location for training, teaching and research activity	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 and 14 of the Call) and/or to the supervisor assigned, at the administrative programme location, other locations of the University of Udine or financial supporter's location (if the financial supporter is an external institution).
Coordinator	prof. Walter Baratta (walter.baratta@uniud.it)
Programme duration	3 years
Research topics	<ul style="list-style-type: none"> – Chemical, physical, microbiological, nutritional and sensory aspects of foods – Innovative technological approaches to ensure safety, improve quality and extend the shelf-life of foods – Strategies to improve the nutritional and technological functions of ingredients and foods – Development of innovative foods and processes – Relationship between the structure of foods and their sensorial, nutritional and technological performances – Relationship between diet and health – Monitoring, prevention and reduction of biological, chemical and physical contamination – Optimization and study of microbial fermentations for food and beverage production – Relationships/interactions between food microbiota and human microbiota/microbiome – Genetic and physiological characterization of microbial strains relevant for food – Development and validation of innovative methods and tools (analytical devices, sensors and green biosensors) to define food quality, traceability and safety – Development of rapid methods for in situ analysis and monitoring of biological processes in food – Development of eco-sustainable packaging – Improving sustainability in the food sector – Use of waste from the agri-food chain for the production of food / ingredients / bioactive molecules / packaging materials – Reduction of the environmental impact, of the emission of polluting substances and energy saving in the food sector.
Research programmes	The research programs, if not already defined by funding organizations or specific funding lines (see "Available positions and Examinations procedures", art. 3 p. 5 of the Call), are determined by the Teaching Board within the PhD programme Research topics.
Programme website	https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/scienze-degli-alimenti/ph-d-programme/scienze-degli-alimenti?set_language=en

ADMISSION REQUIREMENTS	
Required degree	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and Decree DM 270/04) or equivalent degree obtained abroad. Foreign degrees and titles: refer to art. 4 and 5 of the Call.
Knowledge of the following foreign language	English

DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION	
Mandatory documents (art. 6 of the Call) UNDER PENALTY OF EXCLUSION	<ol style="list-style-type: none"> 1. Certification or self-certification (pursuant to art. 6 p. 5 of the Call) of the academic qualification for admission to the doctoral program (Italian Laurea Specialistica/Magistrale or Italian Laurea before DM 509/99 or foreign degree). 2. Curriculum vitae et studiorum, dated and signed; 3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry); 4. Research project, dated and signed, developed under the research programs listed in "Positions available and examinations", art. 3 p. 5 of the Call (approximate limit: 10,000 characters, included spaces, in English).
Optional documents (art. 6 of the Call)	<ol style="list-style-type: none"> 1. Master thesis ("Tesi di laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call can submit an extended abstract in place of the complete thesis, in Italian



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	or English signed by themselves and by their thesis Supervisor (approximate limit: 25,000 characters, included spaces); 2. Publications (max 2); 3. Letters of reference (max 2), from university professors, scientific researchers or other experts in the field (art. 7 of the Call).	
All qualifications must be submitted exclusively in PDF format, dated and signed by the candidate.		
SELECTION COMMITTEE		
Appointed members	Lucilla Iacumin – Full Professor – University of Udine Nadia Innocente– Associate Professor – University of Udine Marisa Manzano – Associate Professor – University of Udine	
Substitute members	Walter Baratta – Full Professor – University of Udine Sonia Calligaris – Associate Professor – University of Udine Lara Manzocco – Associate Professor – University of Udine	
ADMISSION		
Competition procedure and test schedule		
Evaluation of titles and oral examination. For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. Applicant is admitted to the oral examination if his/her titles receive at least 21 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.		
Foreign language that can be used for examination	Italian or English	
Evaluation Criteria of qualifications <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum	max.10
	Research project	max.14
	Scientific publications	max.2
	Thesis/Abstract	max.2
	Letters of reference	max.2
Oral examination	The oral examination takes place in presence (art. 9 p. 4 of the Call). Part of the oral examination will be in English.	