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ANNEX A

PhD Course in Agricultural Technologies and Biotechnologies (DOT 1339335)

Coordinator	Prof. Giuseppe Maiorano e-mail: maior@unimol.it	
CUN Area	07	
E.R.C.	LS9_3; LS9_4; LS9_5	
Overview	<p>The PhD course in Agricultural Technologies and Biotechnologies, focused on the agri-food and environmental system codified in Horizon 2020, is focused on the sustainable agriculture, food safety and quality, animal welfare, green economy and environmental law.</p> <p>The PhD course consists of three curricula:</p> <ol style="list-style-type: none"> <u>Sustainable Plant Production and Protection</u> It aims at developing new skills and technologies for a sustainable management and exploitation of the agrarian and forestry ecosystems, preserving biodiversity, reducing the chemical inputs into the agrarian ecosystems (Horizon 2020). <u>Food Science, Technology and Biotechnology</u> It aims at forming young researchers who are able to develop innovative technologies and products in the field of food science, technology and biotechnology (transformation, storage and food quality assessment). <u>Welfare, Biotechnology and Quality of Animal Production</u> It aims at: developing new skills in the research area of animal production by enabling technology- and biotechnology-based sustainable innovation for the optimization of animal production and welfare; the valorization of products of animal origin, by taking into consideration the economic, regulatory, and safety aspects of foods. 	
Web	http://dipagricoltura.unimol.it/ricerca/dottorati/	
Duration	01/11/2022 – 31/10/2025	
Available positions	Positions with scholarships	4
	Position with scholarship DM 351/2022 PNRR (M4C1-Inv. 4.1)	1
	<p>Theme: Beef production and environmental sustainability: Podolica breed, pasture, technological innovation and quality</p> <ul style="list-style-type: none"> - Period in Italy of no. 6 months at: Agricultural enterprise Bramante Giuseppe, con sede legale in Rignano Garganico (FG) - Period abroad of no. 6 months at: REQUIMTE, Laboratory of Bromatology and Hydrology, Department of Chemical Sciences, Faculty of Pharmacy, University of Porto, Portogallo 	
	<p>Position with scholarship DM 351/2022 PNRR (M4C1-Inv. 4.1)</p> <p>Theme: Valorization of the dairy productions of the inland areas: process and product innovation</p> <ul style="list-style-type: none"> - Period in Italy of no. 6 months at: Caseificio Di Nucci Antonio di Franco Di Nucci, con sede legale in Agnone (IS) - Period abroad of no. 6 months at: Université Paris- Saclay, INRAE, AGROParisTech, Francia 	1
	<p>Position with scholarship DM 351/2022 PNRR (M4C1-Inv. 4.1)</p> <p>Theme: Application of extract based on exhausted food waste for bio-fertilizer production</p> <ul style="list-style-type: none"> - Period in Italy of no. 6 months at: Puccioni 1888 s.r.l., Porto di Vasto (CH) - Period abroad of no. 6 months at: Group Leader: Precision Soil & Crop Engineering, Precision S CoRing Department of Environment, Ghent University, Belgio 	1





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	Position with scholarship DM 352/2022	1
	Theme: Sustainable recovery of high added value compounds from secondary raw materials of the milling industry - Period in Italy of no. 6 months at: Casillo Next Gen Food S.r.l., sede legale Corato (BA) - Period abroad of no. 6 months at: Hosokawa Alpine AG, Augsburg, Germania	
	Position with scholarship DM 352/2022	1
	Theme: A semen cryobank of Italian rabbit breeds as a tool to increase genetic variability and its use in genetic improvement programs aimed at the production sustainability and diffusion within foreign markets - Period in Italy of no. 6 months at: Associazione Nazionale Coniglicoltori Italiani (Anci), sede legale Volturara Appula (FG) - Period abroad of no. 6 months at: Institute for Animal Science and Technology, Universitat Politècnica de València, València, Spain.	
	TOTAL Positions with scholarships	9
	of which with scholarship reserved for applicants from foreign universities	2
	Positions without scholarships	1
Requirements for admission to the competition	All specialized or master's degrees, or degrees of the system prior to that introduced with the D.M. 509/1999. For candidates who have acquired the title abroad, the latter must have equivalent characteristics with those indicated above.	
Assessable qualifications and related score	List of assessable qualifications (score up to a maximum of <u>20/100</u>): <ul style="list-style-type: none"> - professional and educational curriculum; - degree mark or weighted average of the marks obtained in the exams of the program of studies of aforementioned degrees; - thesis work; - scientific publications on the themes object of the PhD research activities (max. 3); - other past activities in the university and research fields; - any other qualifications that the candidates may consider useful to attach to the application to demonstrate their training and aptitude to research. 	
Thematic areas of the research project proposals and of the interview <i>Please note that the project proposal illustrated in the report, (annex 5), prepared for the competition, is not necessarily the project that will be carried out during the PhD program. If admitted, the research project that will in fact be carried out will be subsequently defined and approved by the Program Faculty Board after the start of the PhD Program.</i>	Research proposal (score up to a maximum of <u>20/100</u>): Candidates are required to prepare a research project proposal to be submitted along with the application must be dated and signed. The project proposal, coherent with second level degree must be on one of the following themes selected among those of interest: <ol style="list-style-type: none"> 1. Theme: Beef production and environmental sustainability: Podolica breed, pasture, technological innovation and quality DM 351/2022 PNRR (M4C1-Inv. 4.1) 2. Theme: Valorization of the dairy productions of the inland areas: process and product innovation DM 351/2022 PNRR (M4C1-Inv. 4.1) 3. Theme: Application of extract based on exhausted food waste for bio-fertilizer production DM 351/2022 PNRR (M4C1-Inv. 4.1) 4. Theme: Sustainable recovery of high added value compounds from secondary raw materials of the milling industry (D.M. 352/2022) 	





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	<p>5.Theme: A semen cryobank of Italian rabbit breeds as a tool to increase genetic variability and its use in genetic improvement programs aimed at the production sustainability and diffusion within foreign markets (D.M. 352/2022)</p> <p>Interview</p> <p>The oral exam and interview (score up to a maximum of 60/100) will consist of the oral presentation of the research proposal and a discussion of the technical and scientific issues related to it. Knowledge of the English language will also be evaluated. Candidates can carry out the presentation and discussion in English.</p>
Assessment criteria and ranking of the candidates	<p>The assessment of academic qualifications is preparatory to the interview. The results of I evaluation phase will be published, as soon as available on the website https://www2.unimol.it/dottorato/.</p> <p>The maximum score is equal to 100/100, divided into the following sub-scores:</p> <ul style="list-style-type: none">- maximum 20/100 Academic qualifications- maximum 20/100 Research proposal in written form- maximum 60/100 Interview and knowledge of English language <p>The results of II evaluation phase will be published, as soon as available on the website https://www2.unimol.it/dottorato/.</p>
Merit ranking	<p>Candidates who score an interview mark of at least 40/60 points will be included in the overall merit ranking.</p>
Interview calendar	<p>Date: 6 September 2022 ore 10:00 a.m. (Rome Time); the agenda of the interviews will be defined by the Selection Committee depending on the number of candidates admitted to oral exam.</p> <p>Place: for those who choose to take the oral exam</p> <ul style="list-style-type: none">- in presence: Università degli Studi del Molise, Dipartimento Agricoltura, Ambiente e Alimenti, Aula F. Silvestri – 2° f., Via F. de Sanctis s.n.c., 86100 Campobasso (CB), ITALY.- online: Google Meet at: meet.google.com/xmr-dxwz-cax

