

BIOTECHNOLOGY AND LIFE SCIENCE		
CYCLE	XXXVII	
COORDINATOR Prof. Marco VENTURA email: marco.ventura@unipr.it Department of Chemistry, Life Sciences and Environmental Sustainabili		
DURATION 3 anni		
STARTING DATE OF THE PHD PROGRAM 01/11/2021		
RESEARCH TOPICS (The candidate MUST mai	ndatorily indicate one research topic in the ANNEX A)	
 Environmental Biomolecular Genetics and microbiology TRAINING OBJECTIVES		
disciplines and biotechnology. The Doctor's retrieved the genome of microbial, plant and animal possible applications in biotechnology. The nebiochemistry and applied biology. Starting fractivity, in order to train PhDs with highly qui of research defined as such: 1) environment involved full-time in a research project, to with the superior of the	ns to train experts who can carry out advanced research activities in the biological esearch themes concern the study of the function, organization and expression of organisms (including humans), to deepen their basic knowledge, also in view of nethodologies used are mainly those of genetic, microbiology, molecular biology, rom this common objective and from a highly cross-cutting advanced teaching alified skills in specific areas of Biotechnology and Life Sciences, three main areas al; 2) genetics and microbiology; 3) biochemical-molecular. PhD students will be hich they will also make critical and proactive contributions. In this way, they will at autonomy, also thanks to the numerous scientific, national and international	
qualification — Laurea	of age and citizenship, applicants holding at least one of the following academic ns can apply for admission: specialistica or Laurea magistrale (second cycle master's degree) /ecchio 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 2021.**

POSIT	ION PUT OUT	11	With Scholarship		9
то со	DMPETITION 11	Reserved to employees of companies having an "Industrial Doctorate" arrangement		2	
	Position with Scholarship				
N°	Funding entity Research Topic, if any				
3	 Scholarship funded by University of Parma (Ministerial funds) Environmental Biomolecular Genetics and microbiology 		• Biomolecular		
1	Scholarship funded by University of Parma (University funds) • Genetics and microbiology			Genetics and microbiology	
1	Scholarship co-funded by Fondazione Cariparma Biomolecular			• Biomolecular	



Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic.. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC			
2	Scholarship funded by Department of Chemistry, Life Sciences and Environmental Sustainability (funds of "Departments of Excellence" program)	BiomolecularGenetics and microbiology			
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Chemistry, Life Sciences and Environmental Sustainability	Genetics and microbiology			
1	Scholarship funded by Preclinics, Gesellschaft für präklinische Forschung mbH	 Biomolecular – Topic "Development of a platform for the design and construction of protein constructs, based on anti- tetanus immunity, for vaccination and therapeutic use. Single domain VHH antibodies (nanotubes) functionalized for the production of molecular tools to be used for diagnostic purposes" 			
	Position reserved for "	'INDUSTRIAL DOCTORATE"			
	(according to art. 2 paragraph 2, le	tt. e) of Ministerial Decree n. 45/2013)			
N°	° Company/Institution				
1	 Reserved to employees of Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna – IZSLER Specific Topic "Swine influenza viruses: genetic and antigenic evolution of influenza viruses circulating in porcine farms in Italy in a constantly evolving context" 				
1	1 Reserved to employees of NAICONS S.r.l.				

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 18 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120		
Foreign Language	The evalu	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 text.		
CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)				
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH				
	LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT			
MANDATORY DOCU	MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION			
ANNEX A		(art. 5 of the Competition notice)		
Identification Docum	dentification Document Scanned Copy of a valid identity document with photo (i.e. identity card, passport)			

UNIVERSITÀ DI PARMA Via Università, 12 - 43121 Parma www.unipr.it



Curriculum Vitae et studiorum		No specific CV format is required (see art. 4 of the Competition notice)		
Abstract of degree thesis t		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 containing the for University that g Name of the du corresponding s		Certificates and academic transcript of records for both Bachelor' ar containing the following details for each degree held: (art. 4 of the Com University that granted the degree - Type of degree (first cycle/second of Name of the degree program - Date of graduation - Final mark - corresponding scores (academic transcript of records) - Translation int (only for degrees issued in languages other than Italian or English).	petition notice): cycle/single cycle) List of exams and	
		MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE API ocument drawn up in Italian or in English)	PLICANT	
Scientific Publications		cles on national and international journals, papers presented at confer chapters and indexed national publications.	ences or symposia,	
Other Academic qualifications		or second level Master's degree obtained in Italy and/or specialization stent with the research topics of this PhD program	degree in subjects	
Other experiences (training, work, research, teaching, etc.)	ining, work, research, – Other qualifications attesting the suitability of the applicants (scholarships or research grants,			
		EVALUATION CRITERIA		
QUALIFICATION		EVALUTATION CRITERIA	POINTS	
Curriculum Vitae et studioru	um	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.	Up to 5 points	
Graduation mark		Score related to the final mark: - 110 with honours (magna cum laude): 20 points; - 110: 18 points; - From 103 to 109: points 4-16 (2 points for each mark unit); - Until 102: 3 points.	Up to 20 points	
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)		 Score related to the average of the exam marks: - 30/30: 18 points; - From 22/30 to 29/30: points 2-16 (2 points for each unit average score) 	Up to 18 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 6 points	
Scientific publications		Publications in <i>peer-rewiewed</i> international journals: 2 points for each publication (for evaluation purposes it is mandatory to attach a	Up to 6 points	



Communiations to conferences, publication in indexed national journals, book chapters			Up to 3 points
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		 The Oral Exam will focus on critical reading and discussion of a scientific article chosen by the candidate among those proposed by the Committee within the each of the three main research topics. Candidates will be asked by the Committee members to discuss and explain the contents of the scientific publication they have selected. 	Up to 80 points
		SCHEDULE OF THE ADMISSION EXAMS	
	DATE	September 2021 (with possible extension in the following days)	
ORAL EXAM	TIME	09.00	
PLACE		AULE (A/B, C e D) CASCINA AMBOLANA Parco Area delle 33/A – Campus Universitario I3124 PARMA - ITALY	
OTHER INFORMATION		The applicant MUST indicate in the application his/her preference for one research topics proposed in the selection announcement (Environme microbiology, Biomolecular); the possible candidate's interest for one of t topics' may also be specified, if applicable. For foreign candidates, admission examinations may be held in English request.	ntal, Genetics and he 'bound research



PHYSICS		
CYCLE	XXXVII	
COORDINATOR	Prof. Stefano CARRETTA email: <u>stefano.carretta@unipr.it</u> Department of Mathematical, Physical and Computer Sciences	
DURATION	3 anni	
STARTING DATE OF THE PHD PROGRAM	01/11/2021	
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	Technische Universität Dresden (Germany)	

RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the ANNEX A)

- Novel environmental-friendly solar cells with absorber made of Earth-abundant elements
- Diffusion phenomena and structure of real-world complex networks
- Numerical Modeling of the Gravitational-Wave signal emitted by Neutron stars and characterization of the post-merger signal of Binary Neutron Star systems (BNS) (Bound research topic)
- Stimuli-responsive nanostructures for biomedical applications
- Carbon nanostructures for high-performance lithium and sodium ion batteries
- New physics searches from cosmological observations
- Solving superconformal field theories with bootstrap methods
- Biophysics of Chromatin by Correlative Imaging and Simulation (Bound research topic)
- Metal-insulator transitions and Dirac insulators in strong spin-orbit interaction metal oxides by local-probe experiments and DFT

TRAINING OBJECTIVES

The PhD in Physics, with a duration of 3 years, is established as a unifying element of the third-level University education in the Physics area. Besides their main commitment to the research activity, students are supposed to spend a substantial part of their training period in attending advanced courses as well as national and international schools. Students are encouraged to spend part of their time abroad, in order to participate in scientific collaborations in their fields of interest, and follow advanced courses in support of their research program. During the three years, teaching commitments are progressively reduced towards a full time engagement in the research activity. The evaluation of the training program is carried out - at the end of each year - through open seminars held by the students. The independent scientific research is expected to lead to publication of results in international, peer reviewed journals. The ultimate goal of the PhD in Physics is a highly specialized scientific training that opens professional carriers in academic institutions and research laboratories, either public or private. The PhD in Physics is divided into three areas corresponding to major groups of disciplines of Physical Sciences covered by the research activity of the Department of Mathematical, Physical and Computer Sciences: Condensed Matter and Materials Physics, Theoretical Physics, Biophysics and Applied Physics.

ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021.
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	TION PUT OUT OMPETITION 7 With Scholarship			7	
			Position with Schol	arship	
N° Funding entity			entity	Research Topic, if any	
4	Scholarship fund	ded by University	of Parma (Ministerial funds)		
1	Scholarship co-f	unded by Fondaz	ione Cariparma		
	Posit	tion with Scholar	ship LINKED TO SPECIFIC TOPI	CS (art. 11 of the Competition notice)	
schola	During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.				
N°		Funding e	entity	BOUND RESEARCH TOPIC	
1	Scholarship funded by INFN – The Italian National Institute for Nuclear Physics		e Italian National Institute	 Numerical Modeling of the Gravitation signal emitted by Neutron st characterization of the post-merger signat Neutron Star systems (BNS) 	ars and
1	Scholarship funded by ITT – Istituto Italiano di Tecnologia			Biophysics of Chromatin by Correlative Ir and Simulation	naging

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 50 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 70 points Minimum score for ELIGIBILITY: 70/120	
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH .		
CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)			
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH			
l	LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
MANDATORY DOCUM	MENTS TO	BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A			
		(art. 5 of the Competition notice)	
Identification Docum	ent	(art. 5 of the Competition notice) Scanned Copy of a valid identity document with photo (i.e. identity card, passport)	



Qualifications	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): 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).			
	MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE AP ocument drawn up in Italian or in English)	PLICANT		
Research Project and Statement of Research interest	A brief text (max 3 pages) in English. The candidates must describe their reand indicate the preferred topic among those listed above, possibly sugge choice theme. For the first choice theme, candidates must outlay an or project including a concise state of the art, the relevance of the problem a results. Candidates are warmly invited to contact the potential super http://smfi.unipr.it/it It does not represent a constraint with respect to the following choice of the that shall be defined together with the supervisor and approved by the Aca			
Other qualifications	Any other document certifying the applicant's training and abilities. P presentations to scientific meeting, stages, fellowships, reference letter			
	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.	Up to 25 points		
Graduation thesis	Consistency of the Master' Degree thesis with the doctoral program research topics. The assessment will make use of the information contained in the abstract (max 1 page) of the thesis (although not yet discussed, in this case countersigned by the thesis supervisor) and in the curriculum, where a brief description of the thesis work should be reported.	Up to 5 points		
Research Project and Statement Research Iterest	f The project will be evaluated in relation to its scientific value and originality. The motivation expressed by the candidate in relation to the themes of the research doctorate will be evaluated	Up to 10 points		
Other qualifications	Publications, awards, presentations to scientific meeting, stages, fellowships, reference letters, etc	Up to 10 points		
ORAL EXAM	EVALUATION CRITERIA	POINTS		
The ORAL EXAM includes presentation of the research pro and is intend to assess the suitab of the applicant to pursue scien research as well as the gen knowledge of issues connected to PhD course	ectopreparation on the issues related to the Master's degreelitythesisificoresearch project presentationeralogeneral knowledge of issues connected to the PhD course	Up to 70 points		



	SCHEDULE OF THE ADMISSION EXAMS			
	DATE	14 September 2021 (with possible extension in the following days)		
ORAL EXAM	TIME	09.30 am (Italian time) The schedule of oral examinations will appear at <u>http://smfi.unipr.it/it</u>		
	PLACE	Department of Mathematical, Physical and Computer Sciences PHYSICS BUILDING Parco Area delle Scienze, 7/A – Campus 43124 PARMA - ITALY		
OTHER INFORMATION		The Oral Exam will focus on the description of the research work carried out to prepare the Graduation Thesis for the Laurea Magistrale/Specialistica, as well as on the research project that the candidate proposes to carry out within the research topics of the Research Doctorate Program in Physics at the Department of Mathematical, Physical and Computer Sciences of the University of Parma which are described at http://smfi.unipr.it/it In the application to participate in the competitive examination, the candidate must choose and specify one research topic. The candidate may indicate a second priority choice. The above choice will be binding with regard to the winner's research activity. For foreign candidates, the admission examinations may be held in English at the candidate's choice.		



C	IVIL ENGINEERING AND ARCHITECTURE
CYCLE	XXXVII
COORDINATOR	Prof. Sandro LONGO email: <u>sandro.longo@unipr.it</u> Department of Engineering and Architecture
DURATION	3 anni
STARTING DATE OF THE PHD PROGR	RAM 01/11/2021
PARTNER INSTITUTION FOR UNIVER COOPERATION AGREEMENTS	New Jersey Institute of Technology (USA)
RESEARCH TOPICS (The candidate M participates for a scholarship with a s	UST mandatorily indicate one research topic in the ANNEX A or indicate if he / she specific topic)
 Infrastructure and Environm Structural and Geotechnical Architecture and Urban Plan 	Engineering
TRAINING OBJECTIVES	
of land data, control and r and groundwater; (2) Structural and Geotechnic behaviour of soils and geo (3) Architecture and Urban problems related to me	To develop specialized skills in the following fields: nmental Engineering: civil infrastructures for transport; survey, management, and analysis nonitoring of displacements and deformations at all scales; issues related to surface waters cal Engineering: mechanical behaviour of materials, structural components and structures; otechnical structures; Planning: theoretical, formal, distributional and functional aspects in architecture; the ethods for survey and to computer-graphics in architecture; issues related to the levelopment of urban settlements; historical, artistic, technical and aesthetic themes in the
ADMISSION REQUIREMENTS	gardless of age and citizenship, applicants holding at least one of the following academic alifications can apply for admission: 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 dergraduate applicants may also submit applications with the obligation of getting their gree by October 31st 2021.

	TION PUT OUT	7	With Scholarship		7
			Position with Schola	ırship	
N°		Funding e	ntity	Research Topic, if any	
3	Scholarship fund	ded by University	of Parma (Ministerial funds)		
1	Scholarship fund	ded by University	of Parma (University funds)		
1	Scholarship co-f	unded by Fondazi	one Cariparma		



Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co- financed by the Department of Engineering and Architecture	 Laboratory characterization and performance- based mechanical modeling of cold recycled asphalt mixtures
1	Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA REGION Image: Scholaship funded by EMILIA ROMAGNA Image: Scholaship funded b	• "ARES - Artificial intelligence for flood RESilience"

ADMISSION PROCED	URES	Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 40 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 50 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	-	age for which the fluency must be assessed during the Oral Examination: ENGLISH . sment of knowledge of this language will be oral and will consist in reading and translating a text.
(Candidates who in		ATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE e the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)
		THE INTERVIEW MAY BE HELD ALSO IN ENGLISH
	LIST OF Q	UALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT
MANDATORY DOCU	MENTS TO	BE ATTACHED TO THE ON-LINE APPLICATION
ANNEX A		(art. 5 of the Competition notice)
Identification Docum	nent	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et s	studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree th	nesis	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		Certificates and academic transcript of records for both Bachelor' ar containing the following details for each degree held: (art. 4 of the Com University that granted the degree - Type of degree (first cycle/second or Name of the degree program - Date of graduation - Final mark - corresponding scores (academic transcript of records) - Translation int (only for degrees issued in languages other than Italian or English).	petition notice): cycle/single cycle) List of exams and
Statement of Researc	n intoract	Short text – maximum 2 pages – in Italian or in English, aimed at explair reasons to attend the PhD program and at describing her/his specific res	-
		MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICATION (IN POSSESSION (IN POSSESSIO	PLICANT
Reference Letters	from othe facilities. andrea.m	um of 2 written by professors or researchers at the University of origin er universities or from experts in the research areas working in public The reference letters must sent directly by the signer to th aranzoni@unipr.it e letters sent directly by the candidate or received in any other way will r	or private research e address e-mail:
Research Project	shall be st problem, personally tools usef <u>It does no</u>	rch project shall consist of a maximum of 3 pages, be written in Italian or cructured as follows: introduction of the problem in the scientific context expected results. The project must focus on an original research topic (ur y developed by the candidate). It should be noted that the Examination ful for verifying the originality of the submitted Project. <u>ot represent a constraint with respect to the following choice of the doctor</u> efined together with the supervisor and approved by the Academic Boar	, significance of the npublished, Board can use of IT <u>oral thesis</u> , that
Scientific Publications	Max 2 Art book char	icles on national and international journals, papers presented at conferer oters etc.	
		oters etc.	
Publications	book chap	EVALUATION CRITERIA	nces or symposia,
Publications QUALIFICATION	book chap	EVALUATION CRITERIA 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. Mandatory: Statement of Research Interest	nces or symposia, POINTS
Publications QUALIFICATION Curriculum Vitae et st	udiorum	EVALUATION CRITERIA 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. Mandatory: Statement of Research Interest Not mandatory: Reference Letters	POINTS Up to 30 points
Publications QUALIFICATION Curriculum Vitae et st Graduation mark Average of the exam i candidate will attain th	udiorum	EVALUATION CRITERIA 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. Mandatory: Statement of Research Interest Not mandatory: Reference Letters	POINTS Up to 30 points Up to 5 points
Publications QUALIFICATION Curriculum Vitae et st Graduation mark Average of the example candidate will attain th later than 31 October	udiorum	EVALUATION CRITERIA 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. Mandatory: Statement of Research Interest Not mandatory: Reference Letters Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae by attaching the abstract of the degree thesis or	POINTS Up to 30 points Up to 5 points Up to 5 points



ORAL EXAM		EVALUATION CRITERIA	POINTS
The ORAL EXAN presentation of the and is intended suitability of the ap scientific research general knowled connected to the Pl	e research p to assess oplicant to p as well a lge of	theoknowledge of the foreign languageursueoresearch project presentation	Up to 50 points
		SCHEDULE OF THE ADMISSION EXAMS	
	DATE	15 September 2021 (with possible extension in the following days)	
	TIME	09:30 AM (Italian time)	
ORAL EXAM	PLACE	Department of Engineering and Architecture MEETING ROMM – Building 10 Parco Area delle Scienze, 181/A – Campus 43124 PARMA - ITALY	
OTHER INFORMA	TION	The Oral Exam must be taken in Italian or in English. If the candidate of exam in English he/she must attach a formal request to the application (A). In the application for participation in the competitive examination, the and specify only ONE Thematics (between the 3 possible Thematics), it take the oral exam on the chosen Thematics. During the Oral Examindicate the theme of research of his/her interest amonentics.//dia.unipr.it/en/themes 37_Cycle In the case of admission to the PhD programme, the above choice research activity of the winner. For Applicants who will take the Oral Exam in Italian, knowledge of E orally and the test will consist of reading and translating a scientific text. Foreign Applicants, if they are among the winners of the PhD admisstrongly encouraged to attend an Italian (http://www.lass.unipr.it/en/teaching/italian-courses-foreigners). Trecognize the credits based on the level of knowledge acquired.	on form (Form ANNEX Applicant must choose and the Applicant must m the candidate must ng those listed in will be binding for the nglish will be assessed tt.



I	NDUSTRIAL ENGINEERING
CYCLE	XXXVII
COORDINATOR	Prof. Gianni ROYER CARFAGNI email: <u>gianni.royer@unipr.it</u> Department of Engineering and Architecture
DURATION	3 anni
STARTING DATE OF THE PHD PROGRAM	01/11/2021
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	Universidade Federal de Santa Caterina (Brazil)

RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the ANNEX A)

- Theoretical and applied mechanics, mechanics of materials and structures, material technology, machine design, measurements and diagnostics.
- Economic, organizational, managerial, logistics, plants and legal aspects in the field of engineering.
- Energy systems, thermo-fluid dynamics, fluid machinery, applied physics.

TRAINING OBJECTIVES

The Industrial Engineering PhD program aims to give participants a deep knowledge in the main topics relevant to industrial engineering. The PhD course presents numerical, analytical and experimental techniques, in order to face any technical or scientific problem of the industrial engineering, with managerial skills, to provide autonomy in work and readiness of inclusion in a collaborative environment with other researchers and technicians. The internationalization phase envisaged in the three-year curriculum allows to forge links with other foreign reality by providing the PhD an additional tool to get into a scientific context not just limited to national borders.

ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021.
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POSIT	ION PUT OUT		With Scholarship		8
	OMPETITION	9	Reserved to holders of scho programs	larship within specific international mobility	1
			Position with Schol	arship	
N°		Funding e	ntity	Research Topic, if any	
2	Scholarship func	led by University	of Parma (Ministerial funds)	•	
1	Scholarship co-f	unded by Fondazi	one Cariparma	•	
	Posit	ion with Scholars	hip LINKED TO SPECIFIC TOPI	CS (art. 11 of the Competition notice)	



During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic.. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding option	
N	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship funded by University of Parma (Ministerial funds)	Advanced techniques in Control and diagnostics
1	Scholarship funded by University of Parma (University funds)	 New approaches for the design and management of logistics and production systems
1	Scholarship partly financed with UNIVERSITY funds and co- financed by Maffeis Engineering S.p.A.	 Advanced modelling of lightweight special structures
1	Scholarship partly financed by Departiment of Engineering and Architecture co-financed by Casappa S.p.A.	 Development of experimental methodologies and mathematical models to increase the efficiency of positive displacement hydraulic machines
	Scholarship partly financed by Departiment of Engineering and Architecture co-financed by FMB S.r.l.	 Virtualization approaches for industrial plants control and design
	Reserved to HOLDERS OF SCHOLARSHIP WITHIN SPECIF	IC INTERNAZIONAL MOBILITY PROGRAMS
N°	Agreements/Cooperations	/Mobility Programs
1	Reserved to holders under the mobility program PROJECT UE F ETN HiStabJuice project 956257 "Establishing a strong and last and juice industries: a 4D-research approach for fruit juice proc	ing international training network for innovation in food

ADMISSION PROCEDURE	s (a minimum ORAL EXAM	of QUALIFICATIONS: up to 70 points score of 40 points shall be required to be admitted to the Oral Exam) : up to 50 points core for ELIGIBILITY: 70/120
ADMISSION PROCEDURE reserved to holders of scl within specific internatio programs	holarship holders	Assessment of QUALIFICATIONS: up to 120 points Minimum score for ELIGIBILITY: 70/120
Foreign Language The		f which shall be assessed during the Oral Exam: ENGLISH . nowledge of this language will be oral and will consist in reading and translating
	OR REMO	ED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE TELY IN AUDIO AND VIDEO TELECONFERENCE Im remotely must submit request, to this purpose, as per the model attached to the competition notice)
	THE IN	TERVIEW MAY BE HELD ALSO IN ENGLISH
LIST	OF QUALIFICAT	IONS TO BE SUBMITTED AND THEIR ASSESSMENT
MANDATORY DOCUMEN	TS TO BE ATTACHED	TO THE ON-LINE APPLICATION
ANNEX A	(art. 5 of the	e Competition notice)
Identification Document	Scanned C	opy of a valid identity document with photo (i.e. identity card, passport)

UNIVERSITÀ DI PARMA Via Università, 12 - 43121 Parma



Curriculum Vitae et st	tudiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree th	esis	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		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): 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).
Research Project		The research project shall consist of a maximum of 3 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 of IT tools useful for verifying the originality of the submitted Project) and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. To identify the topic of the aforementioned project, the candidate may contact one of the Members of the Academic Board (available at: https://dia.unipr.it/it/node/2834). The project 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.
(only qualifications at	tested by a of Short tex	MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT document drawn up in Italian or in English)
(only qualifications at Statement of Research interest Scientific	Short tex attend th Articles of	document drawn up in Italian or in English) .t – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to the PhD program and at describing her/his specific research interests on national and international journals, contributions presented at conferences or symposia,
(only qualifications at Statement of Research interest	Short tex attend th Articles of book cha A maxim from oth	document drawn up in Italian or in English) it – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to he PhD program and at describing her/his specific research interests
(only qualifications at Statement of Research interest Scientific Publications	Articles of book cha Articles of book cha A maxim from oth facilities - First consi - Peric mobi - Schol - Resea coveo - Work - Profe - Langu	document drawn up in Italian or in English) It – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to he PhD program and at describing her/his specific research interests on national and international journals, contributions presented at conferences or symposia, apters. It is necessary to attach a copy to online application num of 2 written by professors or researchers at the University of origin of the candidate or her universities or from experts in the research areas working in public or private research



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.	Up to 15 points
Graduation markScore related to the final mark: - 110 with honours (magna cum laude): 10 points; - 110: 8 points; - From 105 to 109: up to 6 points; - From 100 to 104: up to 3 points; - From 66 to 99: 0 points The scores will be proportionally renormalized in case of equival 		Up to 10 points
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)	Score related to the average of the exam marks: - 30/30: 10 points; - From 28/30 to 29/30: up to 5 points; - From 26/30 to 27/30: up to 3 points; - From 18/30 to 25/30: 0 points; The scores will be proportionally renormalized in case of equivalent evaluations	Up to 10 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics	Up to 10 points
Research Project	Consistency of the Research Project with the doctoral program research topics	Up to 15 points
Statement of Research Interest	Evaluation of the candidate's motivations to attend the doctoral course and congruity of the research interests with the research topics of the doctoral course.	Up to 5 points
Scientific publicationsArticles on national and international journals, contributions prese at conferences or symposia, book chapters. It is necessary to atta copy to online application		Up to 5 points
Reference Letters	a maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities	Up to 5 points
 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 Periods of study abroad, outside th country of origin (e.g. Erasmus programme or other similar mobility programmes) Scholarships, awards, etc.) Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covedere by research grant, and as a staff member of research units Working activity Professional and/or training internship Language proficiency cartificates Other qualifications attesting the suitability of the applicants 		Up to 5 points
ORAL EXAM	ORAL EXAM EVALUATION CRITERIA	
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	 research project presentation general knowledge of issues connected to the PhD course knowledge of foreign languages 	Up to 50 points



issues connected course	to the PhD		
Ро		F QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT ved to holders of scholarship within specific international mobility program	ns
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.	Up to 40 points
Graduation thesis		Consistency of the Master's Degree thesis with the doctoral program research topics	Up to 20 points
Research Project		Consistency of the Research Project with the doctoral program research topics	Up to 40 points
Statement of Resea	arch Interest	Evaluation of the candidate's motivations to attend the doctoral course and congruity of the research interests with the research topics of the doctoral course.	Up to 5 points
Scientific publicatio	ons	Articles on national and international journals, contributions presented at conferences or symposia, book chapters. It is necessary to attach a copy to online application	Up to 5 points
Reference Letters		a maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities	Up to 5 points
Other Academic qualifications and other experiences		 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 Periods of study abroad, outside th country of origin (e.g. Erasmus programme or other similar mobility programmes) Scholarships, awards, etc.) Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covedere by research grant, and as a staff member of research units Working activity Professional and/or training internship Language proficiency cartificates Other qualifications attesting the suitability of the applicants 	Up to 5 points
		SCHEDULE OF THE ADMISSION EXAMS	
	DATE	14 September 2021 (with possible extension in the following days)	
ORAL EXAM	ΤΙΜΕ	08:30 am (Italian time)	
	PLACE	Meeting Room – Building 10 Department of Engineering and Architecture Parco Area delle Scienze, 181/A - Campus 43124 PARMA - ITALY	
OTHER INFORMA	TION	For foreign candidates, the admission examinations may be held in English choice.	at the candidate's



MATHEMATICS					
CYCLE	XXXVII				
COORDINATOR	Prof.ssa Alessandra LUNARDI email: <u>alessandra.lunardi@unipr.it</u> Department of Mathematical, Physical and Computer Sciences				
DURATION	3 anni				
STARTING DATE OF THE PHD PROGRAM	01/11/2021				
PARTNER INSTITUTION	 University of Modena e Reggio Emilia University of Ferrara 				
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	KU Leuven (Belgium)Universidade do Minho (Portugal)				
RESEARCH TOPICS (The candidate MUST man	ndatorily indicate one research topic in the ANNEX A)				
 Statistical mechanics Probability Discrete mathematics and combinate Algebraic and geometric topology of Partial differential equations Differential equations and dynamical Calculus of variations and application Infinite dimensional analysis Mathematical models and methods i Mathematical methods in quantum r Modelization and scientific calculus Numerical methods for integral equa Numerical optimization and application Sequential, parallel and real-time alg Hoplf algebras and quantum groups Projective differential geometry Differential geometry Differential geometry History of mathematics Mathematics education Thermomechanics of countinuous m Exterior differential systems Kinetic methods in physical, econom Number theory Artificial intelligence Automatic reasoning 	manifolds I systems ins to variational problems in complex systems mechanics ations ions corithms edia				
models and methodologies, exploitable also participations to workshops and research peri	ed experts in the field of Mathematics, with advanced expertise on mathematica o in interdisciplinary applications. This aim is achieved through lectures, talks ods in other institutions which introduce PhD students to research work and allow ontinue even after the attainment of the PhD diploma. The education is addressed				



through research papers or talks. At the end of the program the PhD student should be able to make autonomous research work, to produce original and relevant results and to integrate into the international scientific community.

ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021.
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	TION PUT OUT	11	With Scholarship		11	
			Position with Schola	arship		
N° Funding entity			ntity	Research Topic, if any		
2	2 Scholarship funded by University of Parma (University funds)					
3	3 Scholarship funded by University of Ferrara					
3	3 Scholarship funded by University of Modena e Reggio Emilia					
1	Scholarship co-funded by Fondazione Cariparma					
	Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)					
schola	During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.					

N°	Funding entity	BOUND RESEARCH TOPIC
2	Scholarship funded by Hipert S.r.l.	 Artificial Intelligence for underwater navigation. The goal of the research is to improve underwater vehicle navigation by exploiting artificial intelligence and sensor fusion in tasks such as underwater object detection, semantic segmentation, localization and mapping.
		 SLAM and V-SLAM techniques for Autonomous Underwater Vehicles (AUVs). The aim of the research is to develop new SLAM-based techniques to improve the navigation of Autonomous Underwater Vehicles (AUVs).

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 30 points will be required to be admitted to the Oral Exam) ORAL EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120	
Foreign Language	The eval	Language the fluency of which shall be assessed during the Oral Exam: <u>ENGLISH</u> . The evaluation of the knowledge of this language will be oral and will consist in conversation an translation of a scientific text.	



CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE

(Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)

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

ANNEX A	(ar	(art. 5 of the Competition notice)		
Identification Document	So	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)		
Curriculum Vitae et studio	orum No	o specific CV format is required (see art. 4 of the Competition notice)		
Abstract of degree thesisAbstract of the second cycle master's degree thesis. Undergraduate applic the draft of the thesis approved by their supervisor (abstract/draft of the t characters including spaces)				
QualificationsCertificates and academic transcript of records for both Bachelor' and Master' containing the following details for each degree held: (art. 4 of the Competition not University that granted the degree - Type of degree (first cycle/second cycle/single Name of the degree program - Date of graduation - Final mark - List of exa corresponding scores (academic transcript of records) - Translation into Italian or (only for degrees issued in languages other than Italian or English).			petition notice): cycle/single cycle) List of exams and	
	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)			
interest to atte		text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons and the PhD program and at describing her/his specific research interests. contain the proposal for a research project.		
Scientific Publications	Articles on national and international journals, contributions presented at conferences of symposia, book chapters etc.		at conferences or	
Reference Letters	A maximum of 2 written by professors or researchers at the University of origin of the candida or from other universities or from experts in the research areas working in public or priva research facilities			
Other Academic qualifications		econd level Master's degree obtained in Italy and/or specialization t with the research topics of this PhD program	degree in subjects	
Other experiences (training, work, research, teaching, etc.)Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)		ards, 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.	Up to 10 points	



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Graduation thesis			Scientific content and presentation	Up to 20 points
Statement of Rese	arch Interest	t	Candidate's maturity and depth in the presentation of her/his interests, her/his motivation and a possible research project	Up to 20 points
Scientific publication	ons		Scientific relevance of the results and their editorial positioning	Up to 5 points
Reference Letters			Significant presentation of the candidates in the letters, relevance of the qualifications for the PhD purposes.	Up to 5 points
ORAL EXAM			EVALUATION CRITERIA	POINTS
The ORAL PROOF consists in a presentation and discussion of the scientific interests of the candidate; it aims to find out the aptitude of the candidate for scientific research and her/his general knowledge of basic topics relevant to the subject matters of the PhD course		of the late; it of the ch and basic	 knowledge of foreign languages: max 10 points good argument concerning research interests: max 25 points preparation on the topics of the PhD course: max 25 points 	Up to 60 points
	1		SCHEDULE OF THE ADMISSION EXAMS	
	DATE 14 Se		ptember 2021	
ORAL EXAM	TIME	10:00	am Italian time (with extension to 15 September at 09.00 am Italian	time)
	PLACE	Parco	tment of Mathematical, Physical and Computer Sciences Area delle Scienze, 53/A - Campus PARMA - ITALY	
OTHER INFORMATION For foreign candidates, the admission examinations may be held in English at the candi choice.			at the candidate's	



	MOLECULAR MEDICINE					
CYCLE XXXVII						
COORDINATOR	Prof. Prisco MIRANDOLA email: <u>prisco.mirandola@unipr.it</u> Department of Medicine and Surgery					
DURATION	3 anni					
STARTING DATE OF THE PHD PROGRAM	V 01/11/2021					
PARTNER INSTITUTION FOR UNIVERSIT	Aalborg University (Denmark)					
RESEARCH TOPICS (The candidate MUS	T mandatorily indicate one research topic in the ANNEX A)					
 Cardiac pathophysiology Microbiology and Clinical Microbiology Digital Dentistry Adapted physical activity in surgery. Constrained topic. Big Data Analytics in Maxillofacial Surgery Constrained topic. Salivary diagnostics of oral and systemic pathologies Constrained topic. A machine learning algorithm in choosing between functional or instrumental test in patients with non-acute chest pain Bats and emerging viruses: eco-epidemiological investigations to protect public health and biodiversity (Constrained topic "Industrial Doctorate") 						
TRAINING OBJECTIVES						
necessary to carry out high-profile r interdisciplinary perspective. The acqui level research and development activiti biotechnological sectors.)	ecular Medicine aims to provide PhD students with the cultural and methodological skills esearch in different scientific disciplines in the biomedical field, integrated in an ired training will allow PhDoctors in Molecular Medicine to employ themselves in high es in Universities, research centers and industries engaged in the medical, biological and					
ADMISSION REQUIREMENTS Regardless of age and citizenship, applicants holding at least one of the following acade qualifications can apply for admission: 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 Ital degrees and recognized as suitable for the admission to doctoral program Undergraduate applicants may also submit applications with the obligation of getting to degree by October 31st 2021. 						

POSITION PUT OUT TO COMPETITION			Wtih Scholarship		8
		9	Reserved to employees of companies having an "Industrial Doctorate" arrangement		1
	Position with Scholarship				
N°	Funding entity		Research Topic, if any		
4	Scholarship funded by University of Parma (Ministerial funds)		 Innovative applications of molecular m the medical-legal field 	edicine in	



1	Scholarship co-funded by Fondazione Cariparma	 Cardiac pathophysiology Microbiology and Clinical Microbiology Digital Dentistry Adapted physical activity in surgery Innovative applications of molecular medicine in the medical-legal field Cardiac pathophysiology Microbiology and Clinical Microbiology Digital Dentistry Adapted physical activity in surgery 				
	Position with Scholarship LINKED TO SPECIFIC TOP	CS (art. 11 of the Competition notice)				
schola	g the Oral Exam, applicants may express and / or confirm their arship dedicated to a specific research topic The Board will our arship in consideration of the specific competences, experience a	express its judgement on eligibility to be assigned the				
N°	Funding entity	BOUND RESEARCH TOPIC				
1	Scholaship funded by EMILIA ROMAGNA REGION Image: Constraint of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna	• OCCURS: Oral Cancers Clustering Using Risk Stratification. Forecasting the prognosis and therapeutic outcome in patients with squamous cell carcinomas of the oral cavity (OSCC) using Big Data Analytics aimed at stratification by risk of biological aggression.				
1	Scholarship funded by Associazione Provinciale LILT Parma A.P.S.	• Evaluation of salivary and serological miRNAs in patients with breast cancer associated to BRCA1 and BRCA2 mutations. Perspective for the development of novel diagnostics approaches				
1	Scholarship funded by Federazione nazionale Ordini dei TSRM e delle professioni sanitarie tecniche, della riabilitazione e della prevenzione	• A machine learning algorithm in choosing between functional or instrumental test in patients with non-acute chest pain				
	Position reserved for "INDUSTRIAL DOCTORATE" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)					
N°	Company/Institution					
1	1Reserved to employees of Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna – IZSLER Specific Topic "Bats and emerging viruses: eco-epidemiological investigations to protect public health and biodiversity"					

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 10 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120	
Foreign Language	The evalu	age the fluency of which shall be assessed during the Oral Exam: ENGLISH . valuation of the knowledge of this language will be by an oral examination and will consist in ating of a scientific text.	



CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE

(Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION

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 the second cycle master's degree thesis. Undergraduate applicants nAbstract of degree thesisthe draft of the thesis approved by their supervisor (abstract/draft of the thesis: characters including spaces)		
QualificationsCertificates and academic transcript of records for both Bachelor' and Master' containing the following details for each degree held: (art. 4 of the Competition not University that granted the degree - Type of degree (first cycle/second cycle/single Name of the degree program - Date of graduation - Final mark - List of exa corresponding scores (academic transcript of records) - Translation into Italian or (only for degrees issued in languages other than Italian or English).		
Research Project	The research project shall consist of a maximum of pages, be written in Italian or in English, focused on an original research topic, consistent with the research topi of Phd Program, 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. The Project 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.	
	MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT 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 on national and international journals, papers presented at conf symposia, book chapters etc.		
Reference Letters	A maximum of 3 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities, to be attached to the online application	
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,			
	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.	Up to 10 points	
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points; - From 100 to 109: 0,2 point for each mark unit	Up to 5 points	
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)	Score related to the average of the exam marks: - > 28/30: 5 points - > 27/30: 3 points - > 25/30: 1 point	Up to 5 points	
Graduation thesis	Consistency with the research themes of the PhD course and quality of the research methodology	Up to 7 points	
Research Project	 scientific value and originality articulation of the proposal research feasibility rigor and appropriateness methodological 	Up to 10 points	
Statement of Research Interest	Clarity, maturity, motivation and expectations	Up to 9 points	
Scientific publications	Evaluation of the candidate's contribution and the editorial location of the product.	Up to 9 points	
Reference Letters	one point per letter	Up to 3 points	
Other Academic qualifications	Academic qualifications/experience abroad/grants, scholarships and awards	Up to 5 points	
Other experiences		Up to 2 points	
ORAL EXAM	EVALUATION CRITERIA	POINTS	
The ORAL EXAM includes th presentation of the research project and is intend to assess the suitabilit of the applicant to pursue scientifi research as well as the generat knowledge of issues connected to th PhD course	 knowledge of the oreign language: max 4 points ability to argument the project proposal: max 28 points knowledge of chosen topic: max 28 points 	Up to points	
SCHEDULE OF THE ADMISSION EXAMS			



	DATE	20 September 2021 (with possible extension in the following days)
ORAL EXAM	TIME	10:00 am (Italian time)
	PLACE	Department of Medicine and Surgery Integrated Biotechnological Plexus Via Volturno, 39 – 43125 PARMA - ITALY
OTHER INFORMATION		The Oral Exam is held in Italian.



NEUROSCIENCES			
CYCLE		ХХХVІІ	
COORDINATOR		Prof. Vittorio GALLESE email: <u>vittorio.gallese@unipr.it</u> Department of Medicine and Surgery	
DURATION		3 anni	
STARTING DATE OF THE PHD PROG	RAM	01/11/2021	
CURRICULA		1. Neurosciences 2. Behavioural Biology	
RESEARCH TOPICS (The candidate I	MUST man	datorily indicate one research topic in the ANNEX A)	
		ative neurophysiology and neuroethology, cognitive and social neu f perception and action, psychobiology, psychophysiology.	iroscience,
		of social, competitive and parental behavior, gene / environment inter- itive ethology and emotions in animals and humans.	ractions on
TRAINING OBJECTIVES			
 Provide a global and interdisciplinary vision of the proposed research sectors, guaranteeing a hig specialization in research in these areas; Acquire skills and abilities in the autonomous use of at least one neuroscientific investigation technique; Promote the development of networks of national and international relations and exchanges aimed ar deepening the research topic addressed. 			
ADMISSION REQUIREMENTS Regardless of age and citizenship, applicants holding at least one of the following activity of admission: - Laurea specialistica or Laurea magistrale (second cycle master's degree) - Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulation) - Second cycle Master's degree obtained abroad, equivalent to the above mentioned degrees and recognized as suitable for the admission to doctoral program Undergraduate applicants may also submit applications with the obligation of gettindegree by October 31 st 2021.			lations); ned Italian
POSITION PUT OUT TO COMPETITION*	Wtil	h Scholarship	11

Decre	ified by Rector ee n. 1447 of .2021)	12	Reserved to employees of co arrangement	ompanies having an "Industrial Doctorate"	1
	Position with Scholarship				
N°	N° Funding entity R		Research Topic, if any		
3	Scholarship funded by University of Parma (Ministerial funds)				
1	1 Scholarship funded by University of Parma (University funds) -				
1	Scholarship co-funded by Fondazione Cariparma				



Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice) (Modified by Rector Decree n. 1447 of 30.07.2021)

During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC				
2	Scholarship funded by Department of Medicine and Surgery	Wireless neuroethology in nonhuman primates				
1	Scholarship partly financed with UNIVERSITY funds and co- financed by the Department of Engineering and Architecture	 Development of IoT (internet of Things) systems for monitoring a car driver psychophysiological state 				
1	Scholarship funded by Neuroscience Institute (Italian National Research Council C.N.R.)	 Development of Action observation Training protocols in the recovery and acquisition of sport gestures 				
1	Scholarship co-funded by the Department of Engineering and Architecture and co-funded by University of Trento	 Number-space association: A comparative, developmental and neurobiological approach 				
1	 Investigate the potential beneficial effect of ear life (birth to weaning) dietary supplementation with 3 nutrient blends alone or in combination on cognitive functions in mice 					
	Position reserved for "INDUSTRIAL DOCTORATE" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)					
N°	Company/Institution					
1	1 Reserved to employees of A.S.S.T. Grande Ospedale Metropolitano Niguarda					

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120		
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The knowledge of this language will be tested in oral form and will consist of a short conversation in English.			
(Candidates who in	CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)			
	THE INTERVIEW MAY BE HELD ALSO IN ENGLISH			
	LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT			
MANDATORY DOCU	MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION			
ANNEX A	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 studio	No specific CV format is required (see art. 4 of the Competition notice)			
Abstract of degree thesis the		stract of the second cycle master's degree thesis. Undergraduate applicants must submit e draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 aracters including spaces)		
Qualifications cor Qualifications Cor		rtificates and academic transcript of records for both Bachelor' and Master' degrees ntaining the following details for each degree held: (art. 4 of the Competition notice): iversity that granted the degree - Type of degree (first cycle/second cycle/single cycle) me of the degree program - Date of graduation - Final mark - List of exams and presponding scores (academic transcript of records) - Translation into Italian or English hly for degrees issued in languages other than Italian or English).		
		BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APP ment drawn up in Italian or in English)	PLICANT	
Research Project	Research ProjectThe research project shall consist of a maximum of 3 pages, be written in Italian or in Engl focused on an original research topic (unpublished, developed personally by the candidate should be noted that the Examination Board can use of IT tools useful for verifying the origina of the submitted Project) and it shall be structured as follows: introduction of the problem in scientific context, significance of the problem, methodology and experimental design/data analy expected results. The Research Project not represent a constraint with respect to the following choice of the doctor 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 on national and international journals, papers presented at conferences or symposia, book chapters etc.			
Reference Letters	A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities, attached to the online application			
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 – Researd (training, work, research, teaching, etc.) – Workin – Profess – – Langua – – Periods – – Morkin – – Profess – – Langua – – Morking, etc.) – – Morking, etc.) –		ch activity (basic, applied, translational, etc.) carried out in any capac ere by research grant, and as a staff member of research units ng activity sional and/or training internship age proficiency cartificates s of study abroad, outside th country of origin (e.g. Erasmus program ty programmes) qualifications attesting the suitability of the applicants (scholarships,	me or other similar	
	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.	Up to 40 points	



The candidate's Curriculum Vitae et Studiorum will be evaluated based on the following qualifications and scores:			
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 10 points - 110: 7 points; - From 105 to 109: 4 points; - Under 105: 0 points	Up to 10 points	
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)	ain the degree no		
Graduation thesis	 Experimental thesis related to the PhD program of Neuroscience: 10 points Non-experimental and relevant thesis: 5 points Thesis not relevant: 0 points 	Up to 10 points	
Research Project	 Points relating to the research project shall be allocated on the basis of the following criteria: Scientific value and ground-breaking nature of the proposal: 2.5 points description and structure of the proposal: 2.5 points proposal feasibility: 2.5 points originality of the proposal: 2.5 points 	Up to 10 points	
Statement of Research Interest	Short text – maximum 1 page – in Italian or in English	Up to 2 points	
Scientific publications	 Each article in a peer-reviewed international journal: 1 point Each book chapter: 0.4 points abstracts/papers/posters presented at conferences or symposia: 0.3 points The same categories are half valued if in Italian. The points of the publications are normalized for post-graduate years, that is, divided by the numbers of post-graduate years. 	Up to 5 points	
Reference Letters	maximum 2 reference letters	Up to 2 points	
Other Academic qualifications	Other academic qualifications consistent with the research topics of this PhD program	Up to 1 points	
ORAL EXAM	EVALUATION CRITERIA	POINTS	
 The ORAL examination includes: A1) <u>Neurosciences</u>: the oral report on 2 topics chosen by lot from those indicated in the list below: 1) The origin of the nervous impulses 2) The synapses 3) The reflexes 4) Molecular and cellular bases of signal transduction 5) The motor system 6) The visual system 7) The somatosensory system 	 Up to 40 points for the oral report on the two topics extracted (up to 20 points per topic) Up to 20 points for the project presentation o Up to 20 points for knowledge of the foreign language 	Up to 80 points	



8) The autonom	ic nervous sv	stem			
9) Neurobiology		stem			
10) Neurobiology					
11) Neurobiology					
12) Memory and					
, ,	U				
A2) <u>Behavioural</u> I	Biology: the	oral			
report on 2 topics of					
those indicated in t	the list belov	v:			
1) Individual and	d social learn	ing			
2) Imprinting an	d developme	ent of			
behavior					
3) Genetic and	d epigeneti	c of			
behavior					
4) Parental eff	fort and s	sexual			
selection					
5) Social behav	· ·				
systems and p 6) Aggression, a					
hierarchies	assault allu	SUCIAI			
7) Hormones,	neurotransm	nitters			
and behavior		inteers			
8) Parental selec		uism			
9) Behavioral ev					
, 10) Communicatio		otions			
emozioni					
B) The presentation	on and discu	ission			
of the research p	project, aim	ed at			
verifying the candid	date's aptitu	de for			
scientific research					
	DATE	14 Sep	tember 2021 (with possible extension in the following days)		
Dep		00.00	1:00 am (Italian Tima)		
		09:00 am (Italian Time)			
		Department of Medicine and Surgery			
		Neuroscience Unit - Building E - 1 st Floor			
			Volturno, 39 - 43125 PARMA - ITALY		
OTHER INFORMATION		For fo	reign candidates, the admission examinations may be held in Englis	h at the candidate's	
choic		choice			



PSYCHOLOGY			
CYCLE	XXXVII		
COORDINATOR	Prof.ssa Luisa MOLINARI email: <u>luisa.molinari@unipr.it</u> Department of Humanities, Social Sciences and Cultural Industries		
DURATION	3 anni		
STARTING DATE OF THE PHD PROGRAM	01/11/2021		
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	 Universitat Autònoma de Barcelona (Spain) Universidad de Málaga (Spain) 		
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the ANNEX A)			
 Psychosocial processes in complex societies Learning and developmental processes 			

- Learning and developmental processes
- Clinical and dynamic processes in life contexts

TRAINING OBJECTIVES

Training researchers able to project and realize studies in basic or applied psychology, with a special emphasis on social, educational and clinical contexts.

ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021.

POSITION PUT OUT TO COMPETITION		5	With Scholarship		4
			Reserved to holders of Research Grant 1		1
Position with Scholarship					
N°	Funding entity		Research Topic, if any		
1	Scholarship funded by University of Parma (Ministerial funds)				
1	Scholarship co-funded by Fondazione Cariparma				
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)					
During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a					

During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.



N°	Funding entity	BOUND RESEARCH TOPIC			
1	Scholarship partly financed with UNIVERSITY funds and co- financed by the Department of Humanities, Social Sciences and Cultural Industries	•			
1	Scholarship partly financed with UNIVERSITY funds and co- financed by University of Bologna	•			
Position reserved to HOLDERS OF RESEARCH GRANT					
N°	Subject area of the research				
1	"Strategic human resources management in the Public Administration: the promotion of organizational efficiency through the analysis of organizational culture, roles and workflow"				

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 35 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120		
Foreign Language		e fluency of which shall be assessed during the Oral Exam: <u>ENGLISH</u> . ion of the knowledge of this language will be oral and will consist in reading and translating ic text.		
	CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE			
(Candidates who in	(Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)			
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				
ANNEX A (art. 5 of the Competition notice)				
Identification Document Scanned Copy of a valid identity document with photo (i.e. identity card, pass		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 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		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): 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).		



Eng dev rele diso The of t		he research project shall consist of a maximum of 2500 words, be written in Italian or in nglish, and it must be an original research project (inedited, unpublished, personally eveloped by the candidate) and be structured as follows: theoretical introduction, elevance of the problem, research design and methodology, expected results and iscussion, essential bibliography (maximum 5 bibliographic entries) he Research Project <u>does not represent a constraint with respect to the following choice f the doctoral thesis</u> , that shall be defined together with the supervisor and approved by the Academic Board.		
		BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICATION OF IN POSSESSION OF THE APPLICATION OF THE APPLIC	PLICANT	
Scientific Publications	Articles on chapters e	national and international journals, reports presented at conference tc.	s or symposia, book	
Academic qualifications		cond level Master's degree obtained in Italy and/or specialization with the research topics of this PhD program	degree in subjects	
Other experiences		esearch expiences abroad, prizes, scholarships and research grants tion only if clearly documented).	(will be taken into	
		EVALUATION CRITERIA		
QUALIFICATION		EVALUTATION CRITERIA	POINTS	
Graduation mark Or Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)		Score related to the final mark: - 110 and 110 with honours (magna cum laude): 10 points; - From 100 to 109: 8 points - Under 99: 5 points Score related to the average of the exam marks: - 30/30: 10 points - From 27/30 to 29/30: 8 points; - Under 26/30: 5 points	Up to 10 points	
Abstract of the Graduation	n thesis	Consistency with the research themes of the PhD course and quality of the research methodology	Up to 5 points	
Research Project		 Scientific value and nternal consistency: 20 points (aspects that will be considered: validity of the theoretical formulation, relevance of the problem faced, clarity of the objectives and appropriateness of the methodology, consistency of the expected results and relative discussion) Formal and grammatical aspects: 4 points Congruence with the research themes of the PhD course: 4 points 	Up to 28 points	
The candidate's Curri	culum Vitae	et Studiorum will be evaluated based on the following qualificatio	ns and scores:	
Scientific publications		Articles on national and international journals, papers presented at conferences or symposia, book chapters etc	Up to 10 points	
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 programme	Up to 5 points	
Other experiences		study or research expiences abroad, prizes, scholarships and research grants (documented)	Up to 2 points	



ORAL EXAM			EVALUATION CRITERIA	POINTS
on the discussion of the research		age, arch ated	 knowledge of foreign languages (English): 10 points discussion and argumentation of the projec: 35 points knowledge on at least one of the themes of the PhD programme: 15 points 	Up to 60 points
			SCHEDULE OF THE ADMISSION EXAMS	
	DATA	17 Se	17 September 2021	
	ORA	09:30) am (Italian Time)	
PROVA ORALE	LUOGO	POLO	ROOM C POLO DIDATTICO Via del Prato – 43121 PARMA - ITALY	
OTHER INFORMATION For f		For fo	preign candidates, the admission examinations may be held in English	۱.



MATERIALS SCIENCE AND TECHNOLOGY			
CYCLE	XXXVII		
COORDINATOR	Prof. Enrico DALCANALE email: <u>enrico.dalcanale@unipr.it</u> Department of Chemistry, Life Sciences and Environmental Sustainability		
DURATION	3 anni		
STARTING DATE OF THE PHD PROGRAM	01/11/2021		
PARTNER INSTITUTION	The Italian National Research Council (C.N.R.)		
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	Kazan University (Russia)		
RESEARCH TOPICS (The candidate MUST man	ndatorily indicate one research topic in the ANNEX A)		
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the ANNEX A) • Photovoltaic devices • Functional materials • Nanodiagnostics • Nanostructured materials • Supramolecular sensors and devices • Semiconductive massive crystals • Low dimensionality semiconductive structures • Self-healing and self-diagnostic polymers • Ceramic and composite materials • Magnetic materials and magneto-refrigeration The PhD program in Materials Science aims at the preparation of PhDs equipped with strong scientific background and wide research experience in materials science. Enrollment is open to MS laureates in Materials Science, Chemistry, Physics, Industrial Chemistry, Engineering and Biological Sciences. The Board provides a wide range of courses and seminars in different scientific areas, with particular focus on all aspects of materials science (synthesis, characterization, functions and devices). It also offers soft skills courses. The PhD program offers an interdisciplinary preparation through research activity, also in collaboration with foreign Institutions.			
ADMISSION REQUIREMENTS ADMISSION REQUIREMENTS - Laurea S - Laurea S - Second degrees Undergradu	of age and citizenship, applicants holding at least one of the following academic as can apply for admission: specialistica or Laurea magistrale (second cycle master's degree) /ecchio Ordinamento (degree obtained under the previous Italian regulations); cycle Master's degree obtained abroad, equivalent to the above mentioned Italian and recognized as suitable for the admission to doctoral program uate applicants may also submit applications with the obligation of getting their October 31 st 2021.		

POSITION PUT OUT TO COMPETITION	15	With Scholarship	11
		Reserved to holders of Research Grant	2
		Reserved to holders of scholarship within specific international mobility programs	2



	Position with Schol	arship						
N°	Funding entity	Research Topic, if any						
3	Scholarship funded by University of Parma (Ministerial funds)	 Control of the electrical and optical properties of doped Ga2O3 epitaxial thin films (Supervisor: Dr. Piero Mazzolini) Solar cells based on high band-gap chalcogenides by ultra low-cost synthesis and deposition techniques (Supervisor: Dr. Andrea Zappettini) Design of biomedical devices for innovative approaches in the treatment of difficult-to-heal dermatological wounds (Supervisor: Dr. Monica Sandri) 						
1	Scholarship funded by University of Parma (University funds)	• Self-diagnostic vitrimers (Supervisor: Prof. Roberta Pinalli)						
1	Scholarship funded by by The Italian National Research Council C.N.R IMEM	• Magnetocaloric materials for low-carbon solid- state refrigeration and thermomagnetic generation (Supervisor: Dr. Franca Albertini)						
	Position with Scholarship LINKED TO SPECIFIC TOP	CS (art. 11 of the Competition notice)						
schola	g the Oral Exam, applicants may express and / or confirm their arship dedicated to a specific research topic The Board will arship in consideration of the specific competences, experience a	express its judgement on eligibility to be assigned the						
N°	Funding entity	BOUND RESEARCH TOPIC						
2	Scholarship funded by Department of Chemistry, Life Sciences and Environmental Sustainability (funds of "Departments of Excellence" program)	 Applications of colloidal nanostructures in catalysis, magnetism, and structural materials (<i>Supervisor:</i> <i>Prof. Ludovico Cademartiri</i>) Hybrid Nanomaterials from Near-Infrared Dyes and Plasmonic Nanostructures (<i>Supervisor: Prof. Andrea</i> <i>Secchi</i>) 						
1	Scholarship partly financed with UNIVERSITY funds and co- financed by the Department of Chemistry, Life Sciences and Environmental Sustainability	• Supramolecular nanostructures for bacteria detection (<i>Supervisor: Prof. Alessandro Casnati</i>)						
1	Scholarship funded by 10 10 ONE OBJECT OWNER S.B. S.r.l.	• Laser induced graphene: synthesis and applications (Supervisor: Prof. Mauro Riccò)						
1	Scholarship partly financed by Department of Chemistry, Life Sciences and Environmental Sustainability and co-financed by Davines S.p.A.	• Sustainable materials derived from cosmetic waste (Supervisor: Prof. Federica Bianchi)						
1	Scholarship co-funded by Bormioli Pharma S.p.A. and by The Italian National Research Council (C.N.R.)	 Increase the mechanical resistance of glass containers by improving the surface quality (Supervisor: Dr. Davide Calestani) 						
	Position reserved to HOLDERS O	F RESEARCH GRANT						
N°	Subject area of th	he research						
1	ISTEC – Institute of Science and Technology for Ceramics "Deve biomimetic calcium phosphate papoparticles" (Supervisor: Dr. M							
1	biomimetic calcium phosphate nanoparticles" (Supervisor: Dr. Michele lafisco) 1 IMEM - Institute of Materials for Electronics and Magnetism "New-concept magnetic materials for sustainable permanent magnets" (Supervisor: Dr. César de Julián Fernández)							



Reserved to HOLDERS OF SCHOLARSHIP WITHIN SPECIFIC INTERNAZIONAL MOBILITY PROGRAMS					
N° Agreements/Cooperations/Mobility Programs					
2	Reserved to holders under the PROJECT UE H2020 MSCA-ITN-ETN "NanED" project 956099 (Supervisor: Dr. Mauro Gemmi)				

ADMISSION PROCEDURES		(a minimum ORAL EXAM :	of QUALIFICATIONS: up to 60 points score of 30 points shall be required to be admitted to the Oral Exam) : up to 60 points ore for ELIGIBILITY: 70/120
ADMISSION PROCE reserved to of schola States and/or scho specific internationa	rship funde larship hol	ed by foreign ders within	Assessment of QUALIFICATIONS: up to 120 points Minimum score for ELIGIBILITY: 70/120
Foreign Language			f which shall be assessed during the Oral Exam: ENGLISH . nowledge of this language will be oral and will consist in translating of a scientific
	CANDID		ED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE TELY IN AUDIO AND VIDEO TELECONFERENCE
(Candidates who in	tend to tak		m remotely must submit request, to this purpose, as per the model attached to the competition notice)
		THE IN	TERVIEW MAY BE HELD ALSO IN ENGLISH
	LIST OF C	UALIFICATI	ONS TO BE SUBMITTED AND THEIR ASSESSMENT
MANDATORY DOCU	MENTS TO	BE ATTACHED	TO THE ON-LINE APPLICATION
ANNEX A		(art. 5 of the	e Competition notice)
Identification Docum	nent	Scanned C	opy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et s	studiorum	No specific	CV format is required (see art. 4 of the Competition notice)
Abstract of degree th	Abstract of degree thesis		the second cycle master's degree thesis. Undergraduate applicants must submit f the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 including spaces)
Qualifications		containing University Name of correspond	as and academic transcript of records for both Bachelor' and Master' degrees the following details for each degree held: (art. 4 of the Competition notice): that granted the degree - Type of degree (first cycle/second cycle/single cycle) the degree program - Date of graduation - Final mark - List of exams and ding scores (academic transcript of records) - Translation into Italian or English egrees issued in languages other than Italian or English).
			TACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT rawn up in Italian or in English)
			naximum 2 pages – in Italian or in English, aimed at explaining the candidate's end the PhD program and at describing her/his specific research interests



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Scientific Publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings				
Final mark of graduation					
Average of the exam marks (for candidates enrolled under conditions and who graduate by 31.10.2021					
	EVALUAT	ION CRITERIA			
QUALIFICATION	EVALUTATION CRI	TERIA	POINTS		
Curriculum Vitae et studiorum	accompanied by a st	c career and postgraduate experience, atutory declaration in lieu of the certification I with the relevant marks, as well as the final	Up to 20 points		
Graduation mark	Score related to the - 110 with honors (m - 110: 16 points - From 105 to 109: 1 - From 100 to 104: 8 - From 95 to 99: 4 po - Under 95: 0 points	nagna cum laude): 20 points 2 points 3 points	Up to 20 points		
Average of the exam marks (if candidate will attain the degre later than 31 October 2021)	- 30/30: 20 points e - From 28/30 to 29/3	30: 12 points	Up to 20 points		
Graduation thesis		Master's Degree thesis with the doctoral topics (briefly describe the topics in the	Up to 10 points		
Statement of Research Interes		m 2 pages – in Italian or in English, aimed at lidate's reasons to attend the PhD and at fic research interests	Up to 5 points		
Scientific publications		ews in scientific journals with peer reviewing, s or posters presented at conventions or	Up to 5 points		
ORAL EXAM	EVALUATION CRIT	ERIA	POINTS		
The ORAL EXAM will focus candidate's motivation to atter PhD, on the description of his s research interests and on a disc of the qualifications presented candidate.	cific sion	reign languages: 10 points ge of issue connected to the Master's thesis: ge of issues connected to the PhD course: 25	Up to 60 points		
		SUBMITTED AND THEIR ASSESSMENT	ms		
Curriculum Vitae et studiorum	accompanied with	c career and postgraduate experience, a statutory declaration in lieu of the xams passed with the relevant marks, as well on mark	Up to 50 points		



Graduation mark			Score related to the final mark: - 110 with honors (magna cum laude): 20 points - 110: 16 points - From 105 to 109: 12 points - From 100 to 104: 8 points - From 95 to 99: 4 points - Under 95: 0 points	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 30 points
Statement of Rese	earch Interes	t	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD and at describing the specific research interests	Up to 10 points
Scientific Publications			Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings	Up to 10 points
			SCHEDULE OF THE ADMISSION EXAMS	
	DATE	16 Se	ptember 2021 (with possible extension in the following days)	
ORAL EXAM	TIME	09:00	AM (Italian time)	
UTAL EXAIVI	PLACE	CHEN Parco	rtment of Chemistry, Life Sciences and Environmental Sustainability IISTRY BUILDING Area delle Scienze, 17/A – Campus I PARMA - ITALY	
OTHER INFORMATION For fo			reign candidates, the admission examinations may be held in Englisl e.	n at the candidate's



	CHEMICAL SCIENCES					
CYCLE	XXXVII					
COORDINATOR	Prof.ssa Alessia BACCHI email: <u>alessia.bacchi@unipr.it</u> Department of Chemistry, Life Sciences and Environmental Sustainability					
DURATION	3 anni					
STARTING DATE OF THE PHD PRO	GRAM 01/11/2021					
RESEARCH TOPICS (The candidate	MUST mandatorily indicate one research topic in the ANNEX A)					
 B) Spectroscopy and mode C) Design and characteriza D) Heterogeneous catalyst E) Fabrication of functiona F) Synthesis of multivalen G) An original access to me H) Development of cataly (grant PoC del MISE - C I) Synthesis and evaluation L) Synthesis and study of 	amacrocyclic complexes of lanthanides for applications in nano- and biotechnology eling of fluorescent systems for microscopy and advanced applications ation of polydentate ligand for the complexation and extraction of critical metals is for eco-compatible syntheses al materials by molecular inclusion in porous MOFs t calixarene-based ligands for transition metal catalysis olecular complexity through the activation of conjugated allenes promoted by visible light rtic methodologies for the synthesis of industrially/pharmaceutically relevant compounds UP: C96I20000110006) on of new additives for lubricants of multichromophoric ligands for applications of biomedical interest (grant PRIN 2017, ds: Supramolecular nanostructures for bacteria detection – CUP D54I17000140001)					
TRAINING OBJECTIVES						
in the advanced fields of Analytica Organic Chemistry . The PhD cours at the Chemistry Unit of the Depa specific training pathway in the c centers both in Italy and abroad publication of scientific results in	de the PhD in Chemical Sciences the necessary skills to propose and manage research projects al Chemistry, General and Inorganic Chemistry, Physical Chemistry, Industrial Chemistry, and e in Chemical Sciences requires each student to work within one of the research groups active rtment of Chemistry, Life Sciences and Environmental Sustainability (SCVSA), and to follow a hosen sector; this is achieved also through: participation in research activities at qualified d, participation to national and international schools and conferences, and through the inernational journals. Interdisciplinary training activities, aimed at developing PhD students disseminate the subjects of their work both in the academic and industrial context and even part of the program.					
ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021. 					





POSITION PUT OUT TO COMPETITION		10	With Scholarship		10
			Position with Schol	arship	
N°		Funding e	entity	Research Topic	
3	Scholarship fund	ded by University	of Parma (Ministerial funds)	Research Topic: A-B-C-D-E-F	
1	Scholarship fund	ded by University	of Parma (University funds)	Research Topic: A-B-C-D-E-F	
1	Scholarship co-f	unded by Fondazi	ione Cariparma	Research Topic: A-B-C-D-E-F	
1	Sciences and En	ded by the Dep vironmental Susta rtments of Excelle		Research Topic: A-B-C-D-E-F	
1		ded by the Depart vironmental Susta	ment of Chemistry, Life ainability	Research Topic G) : An original access to complexity through the activation of a allenes promoted by visible light	
1	financed by the Environmental	Department of C Sustainability (cc E44A9P: Back for bacteri	h University funds and co- Chemistry, Life Sciences and p-financed by project PRIN Hounds: Supramolecular ia detection - CUP	Research Topic L) : Synthesis and multichromophoric ligands for applica biomedical interest	study of ations of
1	financed by the	Department of (Sustainability (co-f	h University funds and co- Chemistry, Life Sciences and financed by project PoC MISE	Research Topic H) : Development of methodologies for the synthe industrially/pharmaceutically relevant comp	esis of
1	•	ded by Consorzio Tecnologia dei Ma	Interuniversitario Nazionale ateriali (INSTM)	Research Topic I): Synthesis and evaluation c additives for lubricants	of new

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120		
Foreign Language The eval		the fluency of which shall be assessed during the Oral Exam: ENGLISH . Iation of the knowledge of this language will be oral and will consist in the discussion of part of rch topics in English.		
(Candidates who in	CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)			
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				



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ANNEX A (art.		rt. 5 of the Competition notice)		
Identification Docume	nt So	nned Copy of a valid identity document with photo (i.e. identity card, passport)		
Curriculum Vitae et stu	u diorum No	o specific CV format is required (see art. 4 of the Competition notice)		
Abstract of degree the	sis th	tract of the second cycle master's degree thesis. Undergraduate applicants must submit draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 racters including spaces)		
Qualifications		rtificates and academic transcript of records for both Bachelor and Master degrees ntaining the following details for each degree held: (art. 4 of the Competition notice): niversity that granted the degree - Type of degree (first cycle/second cycle/single cycle) me of the degree program - Date of graduation - Final mark - List of exams and rresponding scores (academic transcript of records) - Translation into Italian or English hly for degrees issued in languages other than Italian or English).		
-		AY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APP ument drawn up in Italian or in English will be considered)	PLICANT	
Statement of Research interest	to attend the	maximum 1 page – in Italian or in English, aimed at: 1) explaining the or e PhD programme; 2) research interests, with particular reference to t topics proposed; 3) skills that can contribute to a research project in th	opics of interest in	
Scientific Publications		scientific journals with referees, communications presented at conferences, other publications related to Chemical Sciences.	ences or symposia,	
Other experiences	-	ation in Schools or training courses related to Chemical Sciences ards received related to Chemical		
		EVALUATION CRITERIA		
QUALIFICATION		EVALUTATION CRITERIA	POINTS	
Curriculum Vitae et stu	ıdiorum	Relevance of the academic career as well as postgraduate experiences and other research activities related to Chemical Sciences	Up to 17 points	
Graduation mark or Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)		Assignment of a score related to the final mark or, for candidates who will attain the degree by 31 October 2021, a score related to the average of the exam marks	Up to 5 points	
Graduation thesis		Consistency of the Master's Degree thesis with the doctoral programme research topics	Up to 10 points	
Statement of Research	Interest	Motivation and competence proved in the text presented	Up to 3 points	
Scientific publications		Impact and relevance of the qualifications presented related to Chemical Sciences	Up to 5 points	
ORAL EXAM		EVALUATION CRITERIA	POINTS	
The ORAL EXAM takes place in Italian or in English for foreign candidates. It includes a discussion of the qualifications presented by the candidate and an assessment of their scientific profile and design skills.		 knowledge of the subject and skills of the candidate for the proposed research activities are assessed by a discussion on the qualifications submitted for evaluation knowledge of English is assessed by discussion of topics of 	Up to 80 points	
		SCHEDULE OF THE ADMISSION EXAMS		

SCHEDULE OF THE ADMISSION EXAMS



	DATE	15 September 2021 (with possible extension in the following days
ORAL EXAM	TIME	09:30 am (Italian time)
	PLACE	Departiment of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION		For foreign candidates, the admission examinations may be held in English at the candidate's choice. The choice of the Research Topic to be expressed in Annex A is not binding on the assignment of the research project, and it is intended to assess candidates skills during the admission exam.



FOOD SCIENCE					
CYCLE	XXXVII				
COORDINATOR	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: <u>chiara.dallasta@unipr.it</u>				
DURATION	3 anni				
STARTING DATE OF THE PHD PROGRAM	01/11/2021				
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	 Universitat Rovira i Virgili (Spagna) Universidad Politècnica de Cartagena (Spagna) Universidad de Córdoba (Spagna) 				
RESEARCH TOPICS (The candidate MUST m	andatorily indicate one research topic in the ANNEX A)				
 Indigestible polysaccharides/oligosaccharides from different food sources: extraction, enzymatic hydrolysis a structural characterization Using consumer science to improve healthy and sustainable eating behaviour Metabolic phenotypes related to dietary (poly)phenols and their impact on cardiometabolic health Bio-sustainable technologies to produce raw materials and food products with improved physico-chemical, nutritio and safety properties Decreasing food allergenicity through process-induced tailored protein modification in legumes and alternative prot sources The right to food and its dimensions as a basis to promote sustainable agrifood systems Development of targeted / untargeted UHPLC-HRMS methods for the determination of quality in hazelnut and finish products of the confectionery industry Computational approaches integrated to biomolecular technologies to study viral infections of food origin: viruler factors and identification of food components with potential antiviral activity Establishing a strong and lasting international training network for innovation in food and juice industries: a 4 research approach for fruit juice processing Large-scale phenotyping using milk Fourier Transform Infrared Spectroscopy and factors affecting the accuracy predictions Development of welfare indicators for lactating cows at the slaughterhouse 					
The PhD candidates will acquire advance methodologies in the agro-food sector, unc	ed theoretical and practical expertise to provide innovative approaches and ler a multidisciplinary perpective.				
ADMISSION REQUIREMENTS ADMISSION REQUIREMENTS - Laurea - Laurea - Secon degree Undergra	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 duate applicants may also submit applications with the obligation of getting their o October 31 st 2021 .				





			With Scholarship		8	
POSIT	TION PUT OUT	T	Reserved to holders of scholarship within specific international mobility programs		1	
	OMPETITION	11	Reserved to holders of scholarship funded by foreign States		1	
			Reserved to employees of companie	s having an "Industrial Doctorate" arrangement	1	
			Position with Schol	arship		
N°			Funding entity	Research Topic, if any		
4	Scholarship fu	nded by U	Iniversity of Parma (Ministerial funds)	 Food Chemistry Consumer Science Food Technology Human Nutrition 		
1	Scholarship co	-funded b	y Fondazione Cariparma	Bioorganic Chemistry		
	Pos	ition with	n Scholarship LINKED TO SPECIFIC TOP	ICS (art. 11 of the Competition notice)		
schola	arship dedicated	d to a spe	ecific research topic The Board will	r interest to the Examination Board in being assi express its judgement on eligibility to be assign and specific aptitudes of the applicants.	-	
N°		I	Funding entity	BOUND RESEARCH TOPIC		
1			nced with UNIVERSITY funds and co- ment of Veterinary Science		Fourier factors	
1	Scholarship fu	nded by S	oremartec Italia S.p.A.	 Development of targeted / untargeted I HRMS methods for the determination of qui hazelnut and finished products of the confect industry 	ality in	
	Scholaship fu	nded by E	MILIA ROMAGNA REGION			
1	Unore europea Fond section europea	RegioneEmil	lia-Romagna (I) UNIVERSITÀ	 Computational approaches integrated to biomolecular technologies to study viral infections 		
1	-	residence	scholarship is subject to the e or domicile of the beneficiary in	of food origin: virulence factors and identification o food components with potential antiviral activity		
	Reserve	d to HOL	DERS OF SCHOLARSHIP WITHIN SPECIF	IC INTERNAZIONAL MOBILITY PROGRAMS		
N°			Agreements/Cooperations	s/Mobility Programs		
1	Reserved to he project 95625	7		N "Innovation Training Netoworks" INT-ETN HiSta	abJuice	
		Positio	n reserved to HOLDERS OF SCHOLARS			
N°			University or For	-		
1	Reserved to holders or with equivalent financial support within the RESEARCH PROJECT of FAO Chile Food Systems Consultant ""The right to food and its dimensions as a basis to promote sustainable agrifood systems"					
		(acco	Position reserved for "INDUSTI rding to art. 2 paragraph 2, lett. e) of l			
N°			Company/Ins	titution		
1			of Istituto Zooprofilattico Sperimentale indicators for farmed dairy cows and t	e della Lombardia e dell'Emilia Romagna – IZSLER heir collection in slaughterhouses"		



ADMISSION PROCEDURES (a m ORA		(a minimum ORAL EXAM	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	
ADMISSION PROCEDURES for po reserved to holders of scholarshi by foreign States and/or scholars holders within specific internatio mobility programs		nip funded rship	Assessment of QUALIFICATIONS: up to 120 points Minimum score for ELIGIBILITY: 70/120	
Foreign Language The evaluation of the k of a scientific test.			f which shall be assessed during the Oral Exam: <u>ENGLISH</u> . nowledge of this language will be oral and will consist in reading and translating basic knowledge of ITALIAN LANGUAGE will also be assessed.	
(Candidates who in		OR REMOT	ED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE TELY IN AUDIO AND VIDEO TELECONFERENCE m remotely must submit request, to this purpose, as per the model attached to the competition notice) TERVIEW MAY BE HELD ALSO IN ENGLISH	
			ONS TO BE SUBMITTED AND THEIR ASSESSMENT	
		-	TO THE ON-LINE APPLICATION	
ANNEX A		(art. 5 of the	e Competition notice)	
Identification Docum	nent	Scanned C	opy 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		Certificates and academic transcript of records for both Bachelor' and Master' degree containing the following details for each degree held: (art. 4 of the Competition notice): 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 an corresponding scores (academic transcript of records) - Translation into Italian or Englis (only for degrees issued in languages other than Italian or English).		
fi It Research Project I I L L L		focused or It should originality notice and context, si The resear	ch project shall consist of a maximum of 2 pages, be written in Italian or in English, an original research topic (unpublished, developed personally by the candidate. be noted that the Examination Board can use tools useful for verifying the of the submitted Project) concerning one of the specific topic indicated in this d it shall be structured as follows: introduction of the problem in the scientific gnificance of the problem, expected results, argumentation. <u>icch project does not represent a constraint with respect to the following choice of</u> <u>ral thesis</u> , that shall be defined together with the supervisor and approved by the Board;	



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		nd/or reviews in scientific journals with peer reviewing, scientific brinternational circulation	book chapters with		
Reference Letters		no. 1 letter written by professors or researchers or experts in the rese r private research institutions	earch areas working		
Other Academic qualifications		cond level Master's degree obtained in Italy and/or specialization with the research topics of this PhD program	degree in subjects		
Other experiences (training, work, research, teaching, etc.)	 Periods mobilit 	age proficiency cartificates s of study abroad, outside th country of origin (e.g. Erasmus program ty programmes) qualifications attesting the suitability of the applicants (scholarships,			
		EVALUATION CRITERIA			
QUALIFICATION		EVALUTATION CRITERIA	POINTS		
Curriculum Vitae et studio	orum	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 In	terest	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 pe			
	The Re	esearch Project will be evaluated during the Oral Exam			
ORAL EXAM EVALUATION CRITERIA P			POINTS		
The ORAL EXAM inc	ludes the				

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	 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		
Positions re	LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT Positions reserved to holders of scholarship funded by Foreign States or Reserved to holders of scholarship within specific international mobility programs			
Curriculum Vitae et studiorumIncludingacademiccareerandpostgraduateexperience,accompanied by a statutory declaration in lieu of the certificationof 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 36 points		



Research Project			Congruence with the program research proposed and with the research topics of the PhD course. Clarity of objectives and definition of success indicators. Implementation and sustainability of the feasibility plan	Up to 70 points
Statement of Rese	Statement of Research Interest		Originality and research attitude	Up to 10 points
Scientific Publicat	ions		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	Reference Letters		Motivation and research attitude	Up to 1 point
			SCHEDULE OF THE ADMISSION EXAMS	
	DATE	13 September 2021 (with possible extension to 16 September 2021)		
ORAL EXAM	TIME	09:00 am (Italian time)		
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A – Campus 43124 PARMA - ITALY		
OTHER INFORM			oreign candidates it is possible to carry out the admission examin sh, after checking the basic knowledge of ITALIAN LANGUAGE. For e possible to take the admission examination in Italian or in Englis e.	Italian candidates it



DRUG SCIENCES				
CYCLE	XXXVII			
COORDINATOR	Prof. Marco MOR email: <u>marco.mor@unipr.it</u> Food and Drug Department			
DURATION	3 anni			
STARTING DATE OF THE PHD PROGRAM	01/11/2021			
RESEARCH TOPICS (The candidate MUS	F mandatorily indicate one research topic in the ANNEX A)			
 Biochemistry and Molecular Bio Biopharmaceutics – Pharmacol Bio-organic chemistry Experimental Pharmacology an Drug Design and Synthesis TRAINING OBJECTIVES	kinetics			
experience in the design, discovery, de investigation of mechanisms of action different scientific areas, mainly cher technology, pharmacology and biochem	s aimed at the preparation of "Dottori di ricerca" having scientific bases and research evelopment, production and control of drugs and health products, as well as in the for drugs and bioactive compounds. The Course offers multi-disciplinary formation in nical and biological with particular focus on medicinal chemistry, pharmaceutical istry. All the contributions converge toward the education and research training of PhD se, are expected to produce innovation and new knowledge in the field of drugs, interaction with biological substrates.			
ADMISSION REQUIREMENTS Regardless of age and citizenship, applicants holding at least one of the following academi qualifications can apply for admission: - 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 Italia degrees and recognized as suitable for the admission to doctoral program Undergraduate applicants may also submit applications with the obligation of getting the degree by October 31 st 2021.				

	TION PUT OUT	8	With Scholarship		8
	Position with Scholarship				
N°	N° Funding entity Research Topic, if any				
3	Scholarship funded by University of Parma (Ministerial funds)		 Biopharmaceutics - Pharmacokinetics Experimental Pharmacology and Toxicolo Drug Design and Synthesis 	рду	
1	Scholarship funded by University of Parma (University funds)		of Parma (University funds)	Bio-organic chemistry	
1	Scholarship co-funded by Fondazione Cariparma			Drug Design and Synthesis	

UNIVERSITÀ DI PARMA Via Università, 12 - 43121 Parma



During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship funded by Food and Drug Department and by Biopharmanet TEC - Centro Interdipartimentale di Ricerca per l'Innovazione dei Prodotti per la Salute (funds PRIN ref. Project: CODICE RADI_M_2019_PRIN_Bando2017 CUP D94I19001800001	 New inhalation drug delivery systems for the treatment of pulmonary fibrosis
1	Scholarship partly financed with UNIVERSITY funds and co- financed by Biopharmanet TEC - Centro Interdipartimentale di Ricerca per l'Innovazione dei Prodotti per la Salute	 Protein labelling for interaction studies with drugs and biomolecules
1	Scholaship funded by EMILIA ROMAGNA REGION Scholaship funded by EMILIA ROMAGNA REGION Image: Comparison of the scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna	 A computational platform for drug design by multi- scale simulations and machine learning

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 50 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 70 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: <u>ENGLISH</u> . The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text.	
	CANDIDA	TES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE
(Candidates who in	tend to tak	e the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)
		THE INTERVIEW MAY BE HELD ALSO IN ENGLISH
	LIST OF Q	UALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT
MANDATORY DOCU	MENTS TO	BE ATTACHED TO THE ON-LINE APPLICATION
ANNEX A (art. 5 of the Competition notice)		(art. 5 of the Competition notice)
Identification Document Scanned Copy of a valid identity document with photo (i.e. identity card,		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)		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	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): 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).			
Research Project FURTHER QUALIFICATIONS THAT	e research project shall consist of a maximum of 3 pages, be written in Italian or in English, cused on an original research topic and it shall be structured as follows: introduction of e problem in the scientific context, significance of the problem, expected results. It should noted that the Examination Board can use tools useful for verifying the originality of the bmitted Project. The research project does not represent a constraint with respect to the following choice of e doctoral thesis, that shall be defined together with the supervisor and approved by the scademic Board.			
(only qualifications attested by a c	ocument drawn up in Italian or in English) Articles and/or reviews in scientific journals with peer reviewing, abs			
Scientific Publications	posters presented at conventions or meetings.			
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.	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 10 points		
Research Project	 Points relating to the research project shall be allocated on the basis of the following criteria: Scientific value and ground-breaking nature of the proposal: 5 points description and structure of the proposal: 5 points consistency with the themes of the doctorate: doctorate proposal feasibility: 5 points 	Up to 15 points		
Scientific publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings.	Up to 5 points		
ORAL EXAM	EVALUATION CRITERIA	POINTS		
The ORAL EXAM includes presentation of the research pro- and is intend to assess the suitab of the applicant to pursue scien research as well as the gen knowledge of issues connected to PhD course	 knowledge of the oreign language: max 10 points research project presentation: max 30 points general knowledge of issues connected to the PhD course: max 30 points 	Up to 70 points		



	SCHEDULE OF THE ADMISSION EXAMS			
	DATE	16 September 2021 (remotely oral exam using the Microsoft Teams platform) 20 September 2021 (oral exam in presence)		
ORAL EXAM	TIME	09:30 am - Italian Time		
ORAL EXAM	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A – Campus 43124 PARMA - ITALY		
OTHER INFORMATION		For foreign candidates, the admission examinations may be held in English at the candidate's choice.		



EARTH SCIENCES				
CYCLE	XXXVII			
COORDINATOR	Prof. Marco ROVERI email: <u>marco.roveri@unipr.it</u> Department of Chemistry, Life Sciences and Environmental Sustainability			
DURATION	3 anni			
STARTING DATE OF THE PHD PROGRAM	01/11/2021			
RESEARCH TOPICS (The candidate MUST mai	ndatorily indicate one research topic in the ANNEX A)			
 Micro(nano)plastics contamination in groundwater Optimization of bioremediation solutions for hydrocarbon contaminated aquifers Fracture stratigraphy in folded and faulted sandstone turbidites: comparison between the Northern Apennines (Italy) and Limnos (Greece) Carbonate deposition during the Messinian salinity crisis Northern Apennines debris flows and climate change: analysis of recent events and reconstructions at different time scales Late Aquitanian-Burdigalian planktonic foraminifera high-resolution quantitative biostratigraphy in oceanic successions and implications for the definition of the Burdigalian GSSP Extension in the lower plate of a subduction zone: geometry, mode, timing and mechanism of foreland extension with examples from Sicily channel and Apulian swell 				
TRAINING OBJECTIVES				
The main aim of the Ph.D. Course in Earth Sci multidisciplinary framework of Geosciences.	ences is to provide highly qualified study and research paths within the large and			
ADMISSION REQUIREMENTS ADMISSION REQUIREMENTS - Laurea - Laurea - Second degrees Undergradu	of age and citizenship, applicants holding at least one of the following academic hs can apply for admission: specialistica or Laurea magistrale (second cycle master's degree) Vecchio Ordinamento (degree obtained under the previous Italian regulations); cycle Master's degree obtained abroad, equivalent to the above mentioned Italian and recognized as suitable for the admission to doctoral program uate applicants may also submit applications with the obligation of getting their October 31st 2021.			

	TION PUT OUT	5	With Scholarship		5
	Position with Scho			arship	
N°	N° Funding entity Research Topic, if any				
2	Scholarship funded by University of Parma (Ministerial funds)				
1	Scholarship co-funded by Fondazione Cariparma				
1	Scholarship funded by Department of Chemistry, Life Sciences and Environmental Sustainability (funds of "Departments of Excellence" program)				



During the Oral Exam, applicants may express their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic.. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

I	N° Funding entity		BOUND RESEARCH TOPIC	
	1	Scholarship partly financed with UNIVERSITY funds and co- financed by the Department of Chemistry, Life Sciences and Environmental Sustainability	 Micro(nano)plastics contamination in groundwater 	

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120	
Foreign Language The assess		the fluency of which shall be assessed during the Oral Exam: ENGLISH . sment of knowledge of this language will be oral and will consist in reading and translating a of scientific text.	
	CANDIDA	TES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE	
(Candidates who in	tend to take	e the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)	
		THE INTERVIEW MAY BE HELD ALSO IN ENGLISH	
	LIST OF Q	UALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT	
MANDATORY DOCU	MENTS TO	BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A		(art. 5 of the Competition notice)	
Identification Docum	nent	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		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): 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).	
Research Project		The research project shall consist of a maximum of 3 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) and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results. 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.	



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			
Scientific Publications Articles on national and international journals, papers presented at conferences or sym monographs, chapters of books, convention papers, reviews			nces or symposia,
Reference Letters from oth		num of 2 written by professors or researchers at the University of origin of the candidate or ner universities or from experts in the research areas working in public or private research (to be attached to the online application)	
Other Academic qualifications			
Other experiences (training, work, mob		ds of study abroad, outside the country of origin (e.g. Erasmus program lity programmes) r qualifications attesting the suitability of the applicants (scholarships, av	
EVALUATION CRITERIA			
QUALIFICATION		EVALUTATION CRITERIA	POINTS
		Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of	Up to 6 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.	Up to 6 points
Graduation mark	Score related to the final mark: - 110 and 110 with honours (magna cum laude): 5 points - from 107 to 109: 4.5 points - from 105 to 106: 3.5 points - from 100 to 104: 2.5 points - from 95 to 99: 1 point - under 95: 0.5 points	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)	Score related to the average of the exam marks: - from 28 to 30: 5 points - from 27 to 27.99: 4.5 points - from 26.5 to 26.99: 3.5 points - from 26 to 26.49: 2.5 points - form 25 to 25,99: 1 point - under 25: 0.5 points	Up to 5 points
Graduation thesis	Scientific quality of work performed and consistency of the Master's Degree thesis with the doctoral program research topics	Up to 8 points
Research Project	 Points relating to the research project shall be allocated on the basis of the following criteria: Scientific value and originality of the proposal and consistency with the doctoral program research topics: 6 point description and structure of the proposal: 2 points proposal feasibility: 2 points 	Up to 10 points
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	Up to 1 point



Scientific publications		 Abstract presented at a national or international congress: 1 point Articles on scientific journals (ISI/SCOPUS): 3 points Other publication (related to the topics of PhD program: 1 point 		
Reference Letters		A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research	Up to 2 points	
Other Academic qu	ualifications	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	Up to 1 point	
Other experiences		 Periods of study abroad: 1 point Scholarships, scientific associations awards: 1 point 	Up to 2 points	
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		 ch o knowledge of foreign languages: 5 points to o research project presentation: 50 points o general knowledge of issues connected to the PhD course: 25 points 	Up to 80 points	
		SCHEDULE OF THE ADMISSION EXAMS		
	DATE	14 September 2021 (with possible extension to 15 September 2021)		
ORAL EXAM	TIME	09:00 am (Italian time)		
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability EARTH SCIENCES BUILDING Parco Area delle Scienze, 157/A – Campus 43124 PARMA - ITALY		
		For foreign candidates, the admission examinations may be held in English at the candidate's choice.		



PHILOLOGICAL-LITERARY, HISTORICAL-PHILOSOPHICAL AND ARTISTIC STUDIES		
CYCLE	XXXVII	
COORDINATOR	Prof. Italo TESTA email: <u>italo.testa@unipr.it</u> Department of Humanities, Social Sciences and Cultural Industries	
DURATION	3 anni	
STARTING DATE OF THE PHD PROGRAM	01/11/2021	
PARTNER INSTITUTION FOR UNIVERSITY COOPERATION AGREEMENTS	Instanbul Technical University (Turchia)	
	Instanbul Technical University (Turchia)	

RESEARCH TOPICS (The candidate **MUST mandatorily** indicate one research topic in the ANNEX A)

- Greek and Latin Philology
- Philosophy
- Italianistics and Romance Philology
- Foreign Languages and Literatures
- History
- History of Art and Entertainment

TRAINING OBJECTIVES

- In **Greek and Latin Philology** the knowledge and skills of doctoral candidates will be deepened in the sciences of antiquity, with particular reference to linguistics, philological-literary studies, archaeology, papyrology, and the development of the Greek and Latin tradition in the Middle Ages and in the Humanistic and Renaissance period. The doctoral candidates will be led to realize a critical edition, a commentary or an essay, concerning texts in Greek or Latin, or the edition of sources or archaeological contexts, according to the complete time span of their tradition and their continuity of life.
- In Philosophy, PhD students' critical ability and logical-argumentative skills will be developed, as will their knowledge
 in the history of philosophy. Phd students will acquire the ability to conduct an original piece of research which
 requires being able to put into practice conceptual analysis, reasoning, historic and philological documentation in the
 fields of theoretical philosophy, the philosophy of language and aesthetics, and the history of medieval, modern and
 contemporary philosophy.
- In **Italian and Romance Studies** the aim is to train researchers able both in the linguistic and philological fields as well as literary theory. They will be able to produce critical texts and commentaries of texts from the Romance field or that of Italian literature, and to conduct innovative, historical-literary or thematic analysis of various time periods.
- In Foreign Languages and Literature, the focus is on the learning of languages and foreign literature within the European area (English, French, German, Spanish and Russian) as well as, where applicable, their expression in the field of post colonialism. Within the course, original and innovative research activities, based on the latest theoretical and methodological approaches and relevant to the discipline of linguistics (translation, discourse analysis, corpus linguistics, lexicography) and the historical-critical analysis of literature and of the culture between the early modern age and contemporaneity, are promoted.
- In **History**, the goal is to train young academics in the field of historical sciences through the acquisition of skills, methodologies and critical abilities that are necessary for historical, classical and contemporary-age research. PhD students will be supervised during their realisation of original and innovative research projects, focused on various types of sources and dealing with the main issues relating to different perspectives in political and religious history, the history of ideas, and social and economic analysis.
- In **History of Art and the Performing Arts**, the aim is to provide the methodological and critical tools necessary for conducting research in the history of medieval art, or modern or contemporary art, in the history of criticism and museology, but also in the fields of the history of theatre and cinema. PhD students will acquire the ability to consciously recall critical debate, to be able to read the various sources available, and above all the ability to employ philological tools when reading an image.



2020-1-IT02-KA203-079585 - CUP D92F20000090006)

ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021.
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POSITION PUT OUT TO COMPETITION		7	With Scholarship		7		
	Position with Scholarship						
N°		Funding entity Research Topic, if any					
5	Scholarship fund	Scholarship funded by University of Parma (Ministerial funds)					
1	Scholarship co-f	Scholarship co-funded by Fondazione Cariparma					
	Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)						
schola	During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.						
N°	N° Funding entity BOUND RESEARCH TOPIC						
1	Scholarship partly financed with UNIVERSITY funds an financed by the Department of Humanities, Social Scie and Cultural Industries (Erasmus KA203 ENCODE BRID THE <gap> IN ANCIENT WRITING CULTURES: ENHANC COMPETENCES IN THE DIGITAL ERA - Project Reference</gap>		umanities, Social Sciences KA203 ENCODE BRIDGING CULTURES: ENHANCE	 Development of collaborative and pa digital tools and approaches to the en annotation of texts in ancient Greek transmitted through papyri, inscrip literature 	dition and language,		

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 80 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 40 points Minimum score for ELIGIBILITY: 70/120	
Foreign Language SPANISH (at the candidate's choice).		ation of the knowledge of this language will be oral and will consist in reading and translating	
CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)			
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH			

literature



LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT				
MANDATORY DOCUME	MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION			
ANNEX A (art.		5 of the Competition notice)		
Identification Document	t Sca	nned Copy of a valid identity document with photo (i.e. identity card	, passport)	
Curriculum Vitae et stud	liorum No s	No specific CV format is required (see art. 4 of the Competition notice)		
Abstract of degree thesis the		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		ertificates and academic transcript of records for both Bachelor' and Master' degrees ontaining the following details for each degree held: (art. 4 of the Competition notice): niversity that granted the degree - Type of degree (first cycle/second cycle/single cycle) ame of the degree program - Date of graduation - Final mark - List of exams and prresponding scores (academic transcript of records) - Translation into Italian or English only for degrees issued in languages other than Italian or English).		
inc sha car Research Project ver int res foll		The research project shall consist of a maximum of 10 pages (2000 characters each page including spaces) including reference bibliography, written in Italian or in English. The project shall be 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) and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. The project <u>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.		
	ted by a docun	BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APP ment drawn up in Italian or in English)		
Scientific Publications	proceedings	s, articles in national and international scientific journals, book ch , reviews.	lapters, conference	
Other Academic qualifications			degree in subjects	
Other experiences - Workin - Profess - Langua - Periods mobilit		earch activity (basic, applied, translational, etc.) carried out in any capacity, including when edere by research grant, and as a staff member of research units king activity essional and/or training internship guage proficiency cartificates ods of study abroad, outside th country of origin (e.g. Erasmus programme or other similar ility programmes) and post-graduate research activities; er qualifications attesting the suitability of the applicants (scholarships, awards, etc.)		
		EVALUATION CRITERIA		
QUALIFICATION		EVALUTATION CRITERIA	POINTS	
Graduation mark		Score related to the final mark: - 110 with honours (magna cum laude)	Up to 1 point	



Average of the exam marks (if the candidate will attain the degree no later than 31 October 2021)			Score related to the average of the exam marks: - 30/30	Up to 1 point
Graduation thesis			Consistency of the Master's Degree thesis with the doctoral programme research topics, methodological rigor, knowledge of critical literature	Up to 25 points
Research Project			Points relating to the research project : (originality, articulation, feasibility of the proposal)	Up to 25 points
Scientific publication	ons		Monographs, articles in national and international scientific journals, book chapters, conference proceedings, reviews.	Up to 14 points
Other experiences			Post lauream scholarship, experience abroad, award, etc.	Up to 14 points
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		ability entific eneral	 knowledge and methodology necessary for the realization of the project: max 35 points knowledge of chosen foreign language: max 5 points 	Up to 40 points
			SCHEDULE OF THE ADMISSION EXAMS	
	DATE	14 Sep	otember 2021	
ORAL EXAM	Depar PLACE Via D		am (Italian time)	
			artment of Humanities, Social Sciences and Cultural Industries D'Azeglio, 85 15 PARMA - ITALY	
		For fo choice	oreign candidates, the admission examinations may be held in English at the candidate's ce.	



TRASLATIONAL MEDICAL AND SURGICAL SCIENCES

CYCLE	XXXVII
COORDINATOR	Prof. Nicola SVERZELLATI email: <u>nicola.sverzellati@unipr.it</u> Department of Medicine and Surgery
DURATION	3 anni
STARTING DATE OF THE PHD PROGRAM	01/11/2021

RESEARCH TOPICS (Applicant **MUST** indicate one research topic in the ANNEX A)

- 1. Stem cells in the diagnosis and treatment of neoplasms, chronic and degenerative disorders, cardiovascular diseases and musculoskeletal diseases;
- 2. Translational medicine and immunologic dysregulation of gastrointestinal, respiratory, infective, haematological, oncological, endocrinological, nephrological and dermatological diseases, and of vasculitis;
- **3.** Plasticity, function and diagnostic-therapeutic use of genomic, transcriptomic, proteomic and metabolomic platforms of cells, organs and tissues to prevent or treat neoplasms, infections, chronic and degenerative diseases, metabolic dysfunctions, obstetrics and neonatal diseases as well as in response to environmental factors, lifestyles and drugs;
- 4. Development and "theragnostic" function of imaging and technologically advanced phenotyping platforms to prevent or treat neoplasms, infections, chronic and degenerative diseases, metabolic dysfunctions, obstetrics and neonatal diseases as well as in response to environmental factors, lifestyles and drugs;
- 5. Development and application of technologically advanced devices (i.e. biological devices), to measure and support and/or replace the function of cells, tissues or organs in medical and/or surgical diseases;
- 6. Advanced and innovative strategies for recovery and functional rehabilitation to prevent or treat neoplasms, infections, chronic and degenerative diseases, metabolic dysfunctions, obstetrics and neonatal diseases as well as in response to environmental factors, lifestyles and drugs;
- 7. Role of governance and organization of healthcare systems and services in the prevention and care of disorders with a potentially high social and economic impact, including, but not limited to, environmental and professional diseases;
- 8. Role of microbiota and microbiome in translational medicine and surgery;
- 9. Retrieval and role of "big data" in translational medicine and surgery;
- 10. Role of advanced technologies, including robotics, in translational surgery
- **11.** Role of qualitative and quantitative imaging in the diagnosis of neoplasms, infections and chronic degenerative diseases

TRAINING OBJECTIVES

The PhD Program in Translational Medical and Surgical Sciences is a multidisciplinary program, in which the common denominator of the various research activities conducted by the PhD students is represented by the application of the acquired knowledge to clinical practice. In fact, the close link between preclinical and clinical research will allow discoveries and methodological skills acquired through experimental studies to be transferred into medical practice. Such a link will enable PhD students to deal with real problems, ranging from diagnosis to therapy and from prevention to rehabilitation, all of which deeply connected with human diseases and patient care.

The bidirectional exchange between lab and clinical research will bring back to the lab the results of clinical and epidemiological observations, and at the same time it will anchor experimental research to issues that originate from real-world inputs and tests carried out directly on humans.

Therefore, the final goal of the PhD Program in Translational Medical and Surgical Sciences is to provide a highly qualifying training to the PhD students, offering them opportunities, skills and technological resources necessary to practice translational research at a high level in either public or private Institutions, national or international, including, but not limited to, Universities, Research Institutes and PharmaMed Industries.



ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: 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 2021.
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POSITION PUT OUT			With Scholarship		7
TO COMPETITION* (Modified by Rector Decree n. 1550 of	11	Reserved to holders of Research Grant		1	
		Reserved to holders of scholarship funded by foreign States		1	
02.09.	9.2021)		Reserved to employees of companies having an "Industrial Doctorate" arrangement		2
	Position with Scholarship				
N°	N° Funding entity		unding entity	Research Topic, if any	
3	Scholarship funded by University of Parma (Ministerial funds)				
1	1 Scholarship funded by University of Parma (University funds)				
1	1 Scholarship co-funded by Fondazione Cariparma				

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 partly financed with UNIVERSITY funds and co- financed by the Department of Medicine and Surgery	 Pollution and exposome: searching for effect indicators 				
1	Scholarship funded by Chiesi Farmaceutici S.p.A.	 Development of translational PET/SPECT imaging biomarkers of fibrosis 				
Position reserved to HOLDERS OF RESEARCH GRANT						
N°	Subject area of the research					
1	Study of protective immune responses in HBV infection to develop novel immunomodulatory therapies and to identify predictive immunological parameters of response to therapy					
Position reserved to HOLDERS OF SCHOLARSHIP FUNDED BY FOREIGN COUNTRIES						
N° Foreign Country/University						
1	1 Reserved to holders of Germany					
Position reserved for "INDUSTRIAL DOCTORATE" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)						

(Modified by Rector Decree n. 1550 of 02.09.2021)



N°	Company/Institution
1	Reserved to employees of Azienda Unità Sanitaria Locale of Piacenza on the research topic "Interprofessionality in health care"
1	Reserved to employees of Azienda Unità Sanitaria Locale of Piacenza on the research topic "Effect of probiotic supplementation on lipid profile in pediatric patients with familial hypercholesterolaemia on nutrional treatment "

ADMISSION PROCEDURES ORAL		ORAL EXAM: ເ	SESSMENT of QUALIFICATIONS: up to 45 points RAL EXAM: up to 75 points INIMUM SCORE FOR ELIGIBILITY: 70/120		
ADMISSION PROCEDURES for pos reserved to holders of scholarshi foreign Countries			ASSESSMENT OF QUALIFICATIONS: up to 120 points MINIMUM SCORE FOR ELIGIBILITY: 70/120		
Foreign Language		ledge of the En	hall be assessed during the Oral Exam: ENGLISH . glish language will be assessed orally and will consist in reading and translating		
	APPLICA	-	TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE LY IN AUDIO AND VIDEO TELECONFERENCE		
(Applicants who	o intend to t	ake the Oral Exa	am remotely must submit a formal request, using the form attached to the competition notice)		
		THE ORA	L EXAM MAY BE HELD ALSO IN ENGLISH		
	LIST OF C	UALIFICATIC	INS TO BE SUBMITTED AND THEIR ASSESSMENT		
MANDATORY DOCU	MENTS TO	BE ATTACHED T	O THE ON-LINE APPLICATION		
ANNEX A (art. 5 of the Competition notice)		Competition notice)			
Identification DocumentScanned Copy of a valid identity document w		by 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)		V format is required (see art. 4 of the Competition notice)			
Abstract of degree t	Abstract of the second cycle master's degree thesis. Undergraduate applicants must su the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.00 characters including spaces)				
Qualificationscontaining the following details for each degree held: (art. 4 of the University that granted the degree - Type of degree (first cycle/sec Name of the degree program - Date of graduation - Final matrix)		and academic transcript of records for both Bachelor' and Master' degrees he following details for each degree held: (art. 4 of the Competition notice): hat granted the degree - Type of degree (first cycle/second cycle/single cycle) he degree program - Date of graduation - Final mark - List of exams and ng scores (academic transcript of records) - Translation into Italian or English grees issued in languages other than Italian or English).			
Research Projectpages, shallby the applthe original		pages, shall by the appli the originali	n project, written in Italian or in English and consisting of a maximum of 3 be focused on an original research topic (unpublished, developed personally cant. It should be noted that the Examination Board can use IT tools to verify ty of the submitted Project) and structured as follows: scientific context, of the problem, expected results.		



The research project does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined with the supervisor and approved by the Academic Board.

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 applicant's reasons to attend the PhD program and at describing her/his specific research interests		
Scientific Publications	Articles and/or reviews published on peer-reviewed scientific journals, abstracts of papers or posters presented at conventions or meetings; book chapters, etc.		
Reference Letters	A maximum of 2 letters, written by Professors or Researchers from the applicant's University from other Universities or from experts in the research field working in public or private research facilities. The reference letters must be produced on the letterhead of the University/Operation Unit/Structure of the Referee and attached to the online application by the applicant.		
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subject related to the research topics of this PhD program.		
Other experiences (training, work, research, teaching, etc.)	 Research activities (basic, applied, translational, etc.) carried out in any way, including those covered by research grant, and conducted as a staff member of research units Working activity Activities at accredited laboratories Professional and/or training internship Language proficiency certificates Periods of study abroad, outside the country of origin (e.g. Erasmus or similar 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.	Up to 9 points
Graduation mark	Score assignable to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points; - From 106 to 109: 2 points; - From 102 to 105: 1 point.	Up to 5 points
Average of the exam marks (if the applicant will attain the degree no later than 31 October 2021)	Score assignable to the average of the exam marks: - 30/30: 5 points; - From 28/30 to 29/30: 3 points; - From 26/30 to 27/30: 2 points; - From 24/30 to 25/30: 1 point.	Up to 5 points
Graduation thesis	Congruence with the research topics of the PhD Program and quality of the research methodology	Up to 2 points



Research Project	 Score assignable for the research project: Scientific value and ground-breaking nature of the proposal: max 7 points Description and structure of the proposal: max 2 points Proposal feasibility: 1 point 	Up to 10 points
Statement of Research Interest		Up to 1 point
Scientific publications		Up to 9 points
Reference Letters		Up to 3 points
Other Academic qualifications	 Second level Master's degree and Specialization: 3 points First level Master's degree and / or Advanced training and / or specialization and / or Higher Education course: 1 point 	Up to 3 points
Other experiences		Up to 3 points
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	 Ability to argument the project proposal: up to 30 points Discussion of the critical points of the project: up to 18 points Ability to provide an adequate scientific context to the project proposal: up to 15 points Ability to mitigate risks deriving from unexpected results: up to 10 points Knowledge of the English language: up to 7 points 	Up to 75 points
	LIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT reserved to holders of scholarship funded by Foreign States	
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. No specific CV format is required	Up to 20 points
Degree thesis	It will be assessed the congruence with the research topics of the PhD Program and the quality of the research methodology	Up to 8 points
Research Project	 The research project, written in Italian or in English and consisting of a maximum of 3 pages, shall be focused on an original research topic (unpublished, developed personally by the applicant. It should be noted that the Examination Board can use IT tools to verify the originality of the submitted Project) and structured as follows: scientific context, significance of the problem, expected results. The research project does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined with the supervisor and approved by the Academic Board. Score assignable for the research project: Scientific value and ground-breaking nature of the proposal: max 30 points Description and structure of the proposal: max 20 points Proposal feasibility: 10 point 	Up to 60 points

UNIVERSITÀ DI PARMA

Via Università, 12 - 43121 Parma



Statement of Research Interest		t	Short text – maximum 1 page – in Italian or in English, aimed at explaining the applicant's reasons to attend the PhD program and at describing her/his specific research interests.	Up to 4 points
Scientific Publication	ons		Articles and/or reviews published on peer-reviewed scientific journals, abstracts of papers or posters presented at conventions or meetings, book chapters, etc.	Up to 10 points
Reference Letters			A maximum of 2 letters, written by Professors or Researchers from the applicant's University or from other Universities or from experts in the research areas working in public or private research facilities. The reference letters must be produced on the letterhead of the University/Operating Unit/Structure of the Referee and attached to the online application by the applicant.	Up to 6 points
Other Academic qu	ualifications		University Masters, Postgraduate and/or Specialization Courses, etc. in subjects relating to the research topics of the PhD Program.	Up to 6 points
Other experiences (training, work, research, teaching, etc.)		ork,	 Research activities (basic, applied, translational, etc.) carried out in any way, including those covered by research grant, and conducted as a staff member of research units Working activity Activities at accredited laboratories Professional and/or training internship Language proficiency certificates Periods of study abroad, outside the native country (e.g. Erasmus or similar programmes) Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	Up to 6 points
			SCHEDULE OF THE ADMISSION EXAMS	
	DATE 17 September 2021 (with possible extension to 20 September 2021)			
ORAL EXAM	TIME		am (Italian time)	
PLACE		Department of Medicine and Surgery BUILDING 26 – INTERNAL MEDICINE CLASSROOM Via A. Gramsci, 14 43126 PARMA - ITALY		
			reign applicants it will be possible to carry out the oral exam in ants it will be possible to take it in either Italian or English.	English. For Italian



VETERINARY SCIENCES				
CYCLE	XXXVII			
COORDINATOR	Prof. Gaetano DONOFRIO email: <u>gaetano.donofrio@unipr.it</u> Department of Veterinary Science			
DURATION	3 anni			
STARTING DATE OF THE PHD PROGRAM	01/11/2021			
RESEARCH TOPICS (The candidate MUST man	ndatorily indicate one research topic in the ANNEX A)			
 Pathological Sciences Clinical Sciences Basic Sciences Animal Production Sciences and Technologies Food inspection and Public Health 				

TRAINING OBJECTIVES

Veterinary Science Doctoral course aims at training PhD-students about research topics on basic, pre-clinical, clinical and nonclinical areas (animal production and food inspection) by novel methodology and technology. PhD student chooses to develop his/her own research project under the supervision of a Tutor and to produce scientific outcomes in the following area: VET, AGR and BIO.

ADMISSION REQUIREMENTS	 Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: "Laurea Magistrale" LM-42 Veterinary Medicine "Laurea Magistrale" LM-6 Biology "Laurea Magistrale" LM-9 Medical Biotechnology, Veterinary and Pharmaceutica "Laurea Magistrale" LM-86 Zootechnical Sciences and Animal Technologies as well as the equivalent "laurea specialistica" or "laurea" achieved based on the university system in force before the entry into force of Italian Ministerial Decree No. 509/99 Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral programs Undergraduate applicants may also submit applications with the obligation of getting their degree by October 31st 2021.

POSITION PUT OUT TO COMPETITION			With Scholarship		7
		8	Reserved to employees of companies having an "Industrial Doctorate" arrangement		1
	Position with Scholarship				
N°	Funding entity			Research Topic, if any	
3	3 Scholarship funded by University of Parma (Ministerial funds)				
1	Scholarship co-funded by Fondazione Cariparma "Carlo Gabbi "				



During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic.. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC						
1	Scholarship funded by Department of Veterinary Science	• Genetics and genomics for the monitoring of genetic diversity and for the development of new selection indices						
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Veterinary Science	Urinary chemistry and biomarkers in dogs affected by heart disease						
1	Scholarship funded by Chiesi Farmaceutici S.p.A. Scholarship funded by Chiesi Farmaceutici S.p.A. Scholarship funded by Chiesi Farmaceutici S.p.A. Setting-up and validation of new tools and technolog to improve the translational power Bronchopulmonary dysplasia models							
	Position reserved for "INDUSTRIAL DOCTORATE" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)							
N°	Company/Institution							
1	Reserved to employees of Istituto Zooprofilattico Speriment Specific Topic: " Neglected Arboviruses detection in hemato	-						

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 40 points ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120			
Foreign LanguageLanguage the fluency of which shall be assessed during the Oral Exam: ENGLISH.Foreign LanguageThe evaluation of the knowledge of this language will be oral and will consist in translation a comprehension of a scientific text.					
		TES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE			
(Candidates who in	tend to tak	e the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)			
		THE INTERVIEW MAY BE HELD ALSO IN ENGLISH			
	LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT				
MANDATORY DOCU	MENTS TO	BE ATTACHED TO THE ON-LINE APPLICATION			
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	cont Univ Nam corre	ificates and academic transcript of records for both Bachelor' an caining the following details for each degree held: (art. 4 of the Comp versity that granted the degree - Type of degree (first cycle/second c ne of the degree program - Date of graduation - Final mark - esponding scores (academic transcript of records) - Translation int y for degrees issued in languages other than Italian or English).	petition notice): cycle/single cycle) List of exams and	
		BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APP nent drawn up in Italian or in English)	PLICANT	
Research ProjectThe research project shall consist of a maximum of 3 pages, be written in It focused on an original research topic and it shall be structured as follows: i problem in the scientific context, significance of the problem, expected results, The research project does not represent a constraint with respect to the follo doctoral thesis, that shall be defined together with the supervisor and approve Board.			introduction of the argumentation.	
Statement of Research interest		maximum 2 pages – in Italian or in English, aimed at explaining the one of the program and at describing her/his specific research interests	candidate's reasons	
Scientific Publications	Articles put	plished in journals indexed in databases Wos and Scopus		
Reference Letters	eference Letters A maximum of 2 written by professors or researchers at the University of or from other universities or from experts in the research areas working research facilities			
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in sub consistent with the research topics of this PhD program			
	consistent v			
Other qualifications				
Other qualifications		vith the research topics of this PhD program		
Other qualifications QUALIFICATION	Other quali	vith the research topics of this PhD program		
	Other quali	with the research topics of this PhD program fications attesting the suitability of the applicants (scholarships, awa EVALUATION CRITERIA	ards, etc.)	
QUALIFICATION	Other quali	with the research topics of this PhD program fications attesting the suitability of the applicants (scholarships, awa EVALUATION CRITERIA 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	ards, etc.) POINTS	
QUALIFICATION Curriculum Vitae et stud	Other quali	with the research topics of this PhD program fications attesting the suitability of the applicants (scholarships, awa EVALUATION CRITERIA 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. Score related to the final mark: - 110 with honours (magna cum laude): 3 points; - 110: 2 points;	POINTS Up to 2 points	



Research Project			The research project shall consist of a maximum of 3 pages, be written in Italian or in English, focus on an original research topic and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation	Up to 10 points	
Statement of Research Interest		t	Short text – maximum 2 pages – 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	Up to 5 points	
Scientific publication	ons		Articles published in journals indexed in databases Wos and Scopus	Up to 5 points	
Reference Letters			A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities	Up to 5 points	
Other qualification	S		Scholarship, awards, trainings, etc.	Up to 5 points	
ORAL EXAM			EVALUATION CRITERIA	POINTS	
The ORAL EXAM will consist of an interview on scientific or aptitude also based on topics of previously published research if any		titude		Up to 80 points	
	T	Т	SCHEDULE OF THE ADMISSION EXAMS		
DATE 15 Se		15 Se	ptember 2021 with possible extension in the following days		
ORAL EXAM	TIME	09:30 am (Italian time)			
	PLACE	ROOM "D" Department of Veterinary Science Via del Taglio, 10 43126 PARMA - ITALY			
		For fo	oreign candidates, the admission examinations may be held in English at the candidate's ce.		



INFORMATION TECHNOLOGIES					
CYCLE		XXXVII			
COORDINATOR		Prof. Marco LOCATELLI email: <u>marco.locatelli@unipr.it</u> Department of Engineering and Architecture			
DURATION		3 anni			
STARTING DATE OF THE PHD PR	OGRAM	01/11/2021			
RESEARCH TOPICS (The candida	te MUST man	datorily indicate one research topic in the ANNEX A)			
 Electronics instrumentation and electrical drives Computer systems and automatic control Telecommunications and electromagnetic fields TRAINING OBJECTIVES The course aims at educating the future Ph.D.'s so that they will enter the research world with an active role, within both universities and industries.					
ADMISSION REQUIREMENTS Regardless of age and citizenship, applicants holding at least one of the following academi qualifications can apply for admission: - 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 Italia degrees and recognized as suitable for the admission to doctoral program Undergraduate applicants may also submit applications with the obligation of getting the degree by October 31 st 2021.					

			With Scholarship		9
POSITION PUT OUT TO COMPETITION		11 Reser	Reserved to holders of scholarship funded by foreign States		1
			Reserved to employees of companies having an "Industrial Doctorate" arrangement		1
	Position with Schol			arship	
N°	Funding e		entity	Research Topic, if any	
3	Scholarship funded by University of Parma (Ministerial fund				
1	Scholarship funded by University of Parma (University funds)				
1	Scholarship co-funded by Fondazione Cariparma				



During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic.. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC				
1	Scholarship funded by Department of Engineering and Architecture	Applications of Artificial Vision To Autonomous Driving				
1	Scholarship partly financed with UNIVERSITY funds and co-financed by Casappa S.p.A.	 Electrification of endothermic and hydraulic components and systems for machinery 				
1	Scholarship partly financed with UNIVERSITY funds and co-financed by Elettric 80 S.p.A.	 Design and programming of a mobile manipulator for grasping and transportation of packages in industrial environments 				
1	Scholaship funded by EMILIA ROMAGNA REGION ERegioneEmiliaRomagna Opposition The assignment of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna	• Big data in the management of autonomous vehicle fleets in industry: analysis of sensory data, detection and prediction of faults and optimization of system operation				
	Position reserved to HOLDERS OF SCHOL	ARSHIP FUNDED BY FOREIGN STATES				
N°	University o	or Foreign State				
1	Reserved to holders of Qatar					
	Position reserved for "INDUSTRIAL DOCTORATE" (according to art. 2 paragraph 2, lett. e) of Ministerial Decree n. 45/2013)					
N°	Compan	y/Institution				
1	Reserved to employees of RETAIL TUNE S.r.l.					

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 50 points Minimum score for ELIGIBILITY: 70/120		
Foreign Language The eval		e the fluency of which shall be assessed during the Oral Exam: ENGLISH . Lation of the knowledge of this language will be oral and will consist of a brief interview on a topic (for example a translation of a scientific text).		
CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)				
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH				



LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT					
MANDATORY DOCUMENTS TO B	E ATTA	ACHED TO THE ON-LINE APPLICATION			
ANNEX A	(art. S	5 of the Competition notice)			
Identification Document	Scan	ned Copy of a valid identity document with photo (i.e. identity card	, passport)		
Curriculum Vitae et studiorum	No s	pecific CV format is required (see art. 4 of the Competition notice)			
Abstract of degree thesisAbstract of the second cycle master's degree thesis. Undergraduate appli the draft of the thesis approved by their supervisor (abstract/draft of characters including spaces)					
Qualifications	QualificationsCertificates 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): 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).				
Research Project	on a prob argu <u>It do</u>	research project shall consist of a maximum of 3 pages, be written an original research topic and it shall be structured as follows: i plem in the scientific context, significance of the problem, mentation. <u>bes not represent a constraint with respect to the following choice of</u> shall be defined together with the supervisor and approved by the	ntroduction of the expected results, the doctoral thesis,		
		BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APP nent drawn up in Italian or in English)	PLICANT		
Scientific Publications		cles on national and international journals, papers presented posia, book chapters etc.	at conferences or		
Reference Letters	mar	timum 2 letters and must be sent directly by the signer to the <u>co.locatelli@unipr.it</u> (The candidate, therefore, must not upload cedure of the competition online registration)			
Other experiences (training, work, research, teaching, etc.)-Periods of study abroad, outside the country of origin (e.g. other similar mobility programmes)-Other qualifications attesting the suitability of the applicants					
EVALUATION CRITERIA					
QUALIFICATION		EVALUTATION CRITERIA	POINTS		
Curriculum Vitae et studiorum		Evaluation of the marks of the exams and of the master's degree mark (if available). The candidate is required to provide the average of the marks of all the exams of the master's degree, in addition to the details of the same	Up to 25 points		
		It will also be evaluated the congruence of the degree obtained with the PhD themes.			
Abstract of the Master's degree thesis		Consistency of the Master's Degree thesis with the doctoral program research topics	Up to 5 points		



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Research Project			 Points relating to the research project shall be allocated on the basis of the following criteria: Scientific value and originality of the proposal: max 10 points description and structure of the proposal: max 10 points proposal feasibility: max 10 points 	Up to 30 points	
Scientific publications			Evaluation of the editorial position of the publication and its impact on the scientific community on the basis of the available indicators.	Up to 5 points	
Reference Letters			Evaluation of the judgments reported in the reference letters.	Up to 2 points	
Other experiences			Duration evaluation (for scholarships and internships), score (for the GRE test), prestige (for awards)	Up to 3 points	
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		oroject ability entific eneral	 knowledge of the foreign language: max 5 points research project presentation: max 25 points general knowledge of issues connected to the PhD course: max 20 points 	Up to 50 points	
	1		SCHEDULE OF THE ADMISSION EXAMS		
	DATE	15 Sej	5 September 2021 (with possible extension in the following days)		
ORAL EXAM			am (Italian Time)		
	PLACE	Parco	rtment of Engineering and Architecture Area delle Scienze, 181/A – Campus Universitario 4 PARMA - ITALY		
OTHER INFORMATION		choice For fo	reign candidates, the admission examinations may be held in Englisl e. reign candidates all documents written in a language other than Ita ated into English, otherwise they will not be evaluated		

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