



UNIVERSITÀ DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali
Unità di staff Dottorati di ricerca

ATTACHMENT 11

LAST REVISED 05/05/2021

PhD IN REPRODUCTION AND DEVELOPMENTAL SCIENCES OVERVIEW

IN BRIEF															
Lines of research	<ol style="list-style-type: none">1 Inflammation and immunity2 Genetics and pathophysiology of organs and systems3 Precision medicine for maternal and child health4 New diagnostic and pharmacological approaches and innovative therapies5 Population studies and big data6 Biomaterials														
Administrative location	University of Trieste														
Organizing Department	Department of Medicine, Surgery and Health Sciences														
Partner University Department	Department of Life Sciences														
Duration	3 years														
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	0 - 6														
Official language	English Doctoral activities are conducted in English														
Subject Areas (in alphabetical code order)	<table><tbody><tr><td>05</td><td>BIOLOGY</td></tr><tr><td>06</td><td>MEDICINE</td></tr></tbody></table>	05	BIOLOGY	06	MEDICINE										
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Scientific Disciplinary Sectors (in alphabetical code order)	<table><tbody><tr><td>BIO/14</td><td>PHARMACOLOGY</td></tr><tr><td>MED/03</td><td>MEDICAL GENETICS</td></tr><tr><td>MED/05</td><td>CLINICAL PATHOLOGY</td></tr><tr><td>MED/07</td><td>MICROBIOLOGY AND CLINICAL MICROBIOLOGY</td></tr><tr><td>MED/11</td><td>CARDIOVASCULAR DISEASES</td></tr><tr><td>MED/13</td><td>ENDOCRINOLOGY AND METABOLISM</td></tr></tbody></table>	BIO/14	PHARMACOLOGY	MED/03	MEDICAL GENETICS	MED/05	CLINICAL PATHOLOGY	MED/07	MICROBIOLOGY AND CLINICAL MICROBIOLOGY	MED/11	CARDIOVASCULAR DISEASES	MED/13	ENDOCRINOLOGY AND METABOLISM		
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	MED/17	INFECTIOUS DISEASES
	MED/28	ORAL DISEASES AND DENTISTRY
	MED/33	ORTHOPAEDICS
	MED/38	PAEDIATRICS
	MED/40	OBSTETRICS AND GYNAECOLOGY
	MED/50	APPLIED MEDICAL TECHNOLOGY AND METHODOLOGY
Domain European Research Council	LS	LIFE SCIENCES
ERC Panels	LS7	PREVENTION, DIAGNOSIS AND TREATMENT OF HUMAN DISEASES: MEDICAL TECHNOLOGIES AND TOOLS FOR PREVENTION, DIAGNOSIS AND TREATMENT OF HUMAN DISEASES, THERAPEUTIC APPROACHES AND INTERVENTIONS, PHARMACOLOGY, PREVENTATIVE MEDICINE, EPIDEMIOLOGY AND PUBLIC HEALTH, DIGITAL MEDICINE
	LS2	INTEGRATIVE BIOLOGY: FROM GENES AND GENOMES TO SYSTEMS: <i>FOR ALL ORGANISMS:</i> GENETICS, EPIGENETICS, GENOMICS AND OTHER 'OMICS STUDIES, BIOINFORMATICS, SYSTEMS BIOLOGY, GENETIC DISEASES, GENE EDITING, INNOVATIVE METHODS AND MODELLING, 'OMICS FOR PERSONALISED MEDICINE
	LS6	IMMUNITY, INFECTION AND IMMUNOTHERAPY: THE IMMUNE SYSTEM, RELATED DISORDERS AND THEIR MECHANISMS, BIOLOGY OF INFECTIOUS AGENTS AND INFECTION, BIOLOGICAL BASIS OF PREVENTION AND TREATMENT OF INFECTIOUS DISEASES, INNOVATIVE IMMUNOLOGICAL TOOLS AND APPROACHES, INCLUDING THERAPIES

WHO'S WHO	
Chair	Prof. Paolo Gasparini - Department of Medicine, Surgery and Health Sciences – Via dell'Istria, 65 - TRIESTE – phone +39 040.3785275; email pgasparini@units.it
Vice	Prof. Gabriele Stocco – Department of Life Sciences - Via Fleming, 22 - TRIESTE – phone +39 040.558.8634; email stoccog@units.it
PhD Academic Board	List of members
Web site	http://web.units.it/dottorato/scienzeriproduzionesviluppo/en
Email	dottorato.scienzeriproduzione@units.it
Course description and objectives	<p>The aim of the Doctorate in Reproduction and Development Sciences is to provide an interdisciplinary and, when possible, international academic professional training program, aimed at preparing highly qualified researchers in the field of biomedical sciences and, particularly, in the maternal and newborn child health area. The School mission is to form practitioners able to represent in the future the staff of Universities, IRCCS (Scientific Research Institutes) and other Biomedical Research Institutes and Industries. The Doctorate makes also available the opportunity to be trained in international cooperation research programs in the development of emerging countries. The training program consists of two research areas: Clinical epidemiology and Molecular genetics.</p> <p>The purpose of the Clinical epidemiology school is to enable researchers to carry out clinical trials in the biological and medical field, to validate new guidelines, to propose innovative therapeutic and diagnostic approaches. The aim of the school is also to train researchers to identify necessities of people and perform epidemiological surveys to assess the health effects of preventive measures.</p> <p>The Molecular genetic path has the purpose to train qualified experts in different fields of research (basic and applied), diagnostics and personalized treatments, able to communicate and interact with clinical environment, and finalizing their</p>

<p>Job placement opportunities</p>	<p>experience to care needs.</p> <hr/> <p>The Doctorate in Reproduction and Development Sciences trains highly specialized experts that, thanks to the multidisciplinary nature of the skills involved, the high level of theoretical and practical training and collaborative relationships with prestigious national and international institutions, will be able to find employment in medical specialties, molecular biological and educational fields.</p> <p>The main areas of employment are:</p> <ul style="list-style-type: none"> - Clinical facilities with special vocation for research (university hospitals and IRCCS) - Public and private biomedical research institutes - Institutions that conduct research in the social field (health advisories, schools, etc.) - Ethics committees. Besides the possibility of employment in public and private health care facilities - national as well as international – <p>PhD students will be employed in hospitals and institutions of our region, responding to an important objective of third-level education, i.e. to provide the territory in which the University acts with highly qualified staff</p>
<p>Main cooperating international Universities and Research Institutions</p>	<ol style="list-style-type: none"> 1 Sanger Wellcome Trust Institute, Cambridge, United Kingdom 2 Centre for Genomic Regulation (CRG), Barcelona, Spain 3 Department of Pharmaceutical Sciences, St Jude Children's Research Hospital, Memphis, USA. 4 Ospedale Divina Providencia, Luanda, Angola 5 Faculdade Pernambucana de Saude, Instituto de Medicina Integral Prof Fernando Figuera (IMIP), Recife, Brazil