



UNIVERSITÀ  
DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali  
Settore Servizi agli studenti e alla didattica  
Ufficio Dottorati di ricerca

ATTACHMENT 9

LAST REVISED 18/05/2017

**PhD IN  
REPRODUCTION AND DEVELOPMENTAL SCIENCES  
OVERVIEW**

| <b>IN BRIEF</b>                                                                                                            |                                                                                     |                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Lines of research</b>                                                                                                   | 1                                                                                   | Clinical epidemiology                                                                                                                                                                             |
|                                                                                                                            | 2                                                                                   | Molecular genetics                                                                                                                                                                                |
| <b>Administrative location</b>                                                                                             | University of Trieste                                                               |                                                                                                                                                                                                   |
| <b>Organizing Department</b>                                                                                               | Department of Medicine, Surgery and Health Sciences                                 |                                                                                                                                                                                                   |
| <b>Partner University Department</b>                                                                                       | Department of Life Sciences                                                         |                                                                                                                                                                                                   |
| <b>Duration</b>                                                                                                            | 3 years                                                                             |                                                                                                                                                                                                   |
| <b>Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)</b> | 0 - 6                                                                               |                                                                                                                                                                                                   |
| <b>Official language</b>                                                                                                   | Italian                                                                             |                                                                                                                                                                                                   |
| <b>Language (alternative to Italian) partially used in PhD activities</b>                                                  | Most PhD activities are carried out in english, namely workshops and journal clubs. |                                                                                                                                                                                                   |
| <b>Subject Areas (in alphabetical code order)</b>                                                                          | 05                                                                                  | BIOLOGY                                                                                                                                                                                           |
|                                                                                                                            | 06                                                                                  | MEDICINE                                                                                                                                                                                          |
| <b>Macro Research Fields (in alphabetical code order)</b>                                                                  | 05/G                                                                                | EXPERIMENTAL AND CLINICAL PHARMACOLOGY                                                                                                                                                            |
|                                                                                                                            | 06/A                                                                                | PATHOLOGY AND LABORATORY MEDICINE                                                                                                                                                                 |
|                                                                                                                            | 06/D                                                                                | MEDICAL SPECIALITIES                                                                                                                                                                              |
|                                                                                                                            | 06/G                                                                                | PAEDIATRICS                                                                                                                                                                                       |
|                                                                                                                            | 06/H                                                                                | GYNAECOLOGY                                                                                                                                                                                       |
|                                                                                                                            | 06/M                                                                                | PUBLIC HEALTH                                                                                                                                                                                     |
| <b>Scientific Disciplinary Sectors (in alphabetical code order)</b>                                                        | BIO/14                                                                              | PHARMACOLOGY                                                                                                                                                                                      |
|                                                                                                                            | MED/03                                                                              | MEDICAL GENETICS                                                                                                                                                                                  |
|                                                                                                                            | MED/05                                                                              | CLINICAL PATHOLOGY                                                                                                                                                                                |
|                                                                                                                            | MED/17                                                                              | INFECTIOUS DISEASES                                                                                                                                                                               |
|                                                                                                                            | MED/38                                                                              | PAEDIATRICS                                                                                                                                                                                       |
|                                                                                                                            | MED/40                                                                              | OBSTETRICS AND GYNAECOLOGY                                                                                                                                                                        |
|                                                                                                                            | MED/42                                                                              | HYGIENE AND PUBLIC HEALTH                                                                                                                                                                         |
| <b>Domain European Research Council</b>                                                                                    | LS                                                                                  | LIFE SCIENCES                                                                                                                                                                                     |
| <b>ERC Panels</b>                                                                                                          | LS7                                                                                 | DIAGNOSTIC TOOLS, THERAPIES AND PUBLIC HEALTH: AETIOLOGY, DIAGNOSIS AND TREATMENT OF DISEASE, PUBLIC HEALTH, EPIDEMIOLOGY, PHARMACOLOGY, CLINICAL MEDICINE, REGENERATIVE MEDICINE, MEDICAL ETHICS |

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| LS2 | GENETICS, GENOMICS, BIOINFORMATICS AND SYSTEMS BIOLOGY: GENETICS, POPULATION GENETICS, MOLECULAR GENETICS, GENOMICS, TRANSCRIPTOMICS, PROTEOMICS, METABOLOMICS, BIOINFORMATICS, COMPUTATIONAL BIOLOGY, BIostatISTICS, BIOLOGICAL MODELLING AND SIMULATION, SYSTEMS BIOLOGY, GENETIC EPIDEMIOLOGY |
| LS6 | IMMUNITY AND INFECTION: IMMUNOBIOLOGY, AETIOLOGY OF IMMUNE DISORDERS, MICROBIOLOGY, VIROLOGY, PARASITOLOGY, GLOBAL AND OTHER INFECTIOUS DISEASES, POPULATION DYNAMICS OF INFECTIOUS DISEASES, VETERINARY MEDICINE                                                                                |

| WHO'S WHO                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Chair</b>                                                                 | Prof. Alessandro VENTURA – Department of Medicine, Surgery and Health Sciences – Via dell'Istria, 65 - TRIESTE – phone +39 040.3785315; email <a href="mailto:alessandro.ventura@burlo.trieste.it">alessandro.ventura@burlo.trieste.it</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Vice</b>                                                                  | Prof. Gabriele STOCCO – Department of Life Sciences - Via Fleming, 22 - TRIESTE – phone +39 040.558.8634; email <a href="mailto:stoccog@units.it">stoccog@units.it</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Web site</b>                                                              | <a href="http://web.units.it/dottorato/scienzeriproduzioneseviluppo/en">http://web.units.it/dottorato/scienzeriproduzioneseviluppo/en</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Email</b>                                                                 | <a href="mailto:dottorato.scienzeriproduzione@units.it">dottorato.scienzeriproduzione@units.it</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Course description and objectives</b>                                     | <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. 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 relieve necessity 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 experience to care needs.</p> |
| <b>Job placement opportunities</b>                                           | <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"> <li>- Clinical facilities with special vocation for research (university hospitals and IRCCS)</li> <li>- Public and private biomedical research institutes</li> <li>- Institutions that conduct research in the social field (health advisories, schools, etc.)</li> <li>- Ethics committees</li> </ul> <p>Besides the possibility of employment in public and private health care facilities - national as well as international - 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>                                                                                                                                                                                                                                                                                                                                       |
| <b>Main cooperating international Universities and Research Institutions</b> | <ol style="list-style-type: none"> <li>1 Sanger Wellcome Trust Institute, Cambridge (UK),</li> <li>2 Centre for Genomic Regulation (CRG), Barcellona, Spain</li> <li>3 Department of Pharmaceutical Sciences, St Jude Children's Research Hospital, Memphis, USA.</li> <li>4 Ospedale Divina Providencia, Luanda, Angola</li> <li>5 Faculdade Pernambucana de Saude, Instituto de Medicina Integral Prof Fernando Figuera (IMIP), Recife, Brasile</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |