

**DOCTORAL SCHOOL IN  
SCIENCES OF REPRODUCTION AND DEVELOPMENT**

**GENERAL DESCRIPTION**

SUBJECT AREAS COVERED BY THE SCHOOL:

- main area: MED/38
- other areas: MED/03 – MED/39 - MED/40;M-PED/03; M-PSI/04

ORGANIZING DEPARTMENT: Dipartimento Univ. Clinico Sc. della Riproduzione e dello Sviluppo e di Scienza di Medicina Pubblica (SRSMP)

PARTICIPATING DEPARTMENTS (Università di Trieste)

- Dipartimento di Scienze della Formazione e dei Processi Culturali
- Dipartimento di Psicologia

PARTICIPATING DEPARTMENTS (BRESCIA):

- Dipartimento Materno-infantile e tecnologie biomediche

PARTICIPATING DEPARTMENTS (TORINO):

- Dipartimento di Scienze Pediatriche e dell'adolescenza

ITALIAN PARTNER UNIVERSITIES:

- Università degli Studi di Torino
- Università degli Studi di Brescia

OTHER PARTICIPATING INSTITUTIONS:

- Ospedale dei Bambini di Brescia
- Ospedale infantile Regina Margherita – S. Anna di Torino
- IRCSS Burlo Garofolo di Trieste

DURATION: 3 years

MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD: .....18

OFFICIAL LANGUAGE OF THE SCHOOL: Italian

**INFORMATION RELEVANT TO ALL THE CURRICULA**

ACADEMIC QUALIFICATIONS REQUIRED: See Announcement (Art. 1.1 - Requirements)

DEADLINE FOR COMPLETION OF DEGREE: ..... 12.11.2010

ASSESSMENT CRITERIA:

Qualifications + Interview

FINAL SCORE: the final score is based on the sum total of marks obtained in the interview plus the points given for qualifications and publications:..... 100

MINIMUM FINAL SCORE REQUIRED: ..... 60/100

MAXIMUM NUMBER OF POINTS AWARDED FOR QUALIFICATIONS + PUBLICATIONS: ..... 50

QUALIFICATIONS REQUIRED/RELATIVE WEIGHT:

Art. 11 Rules for Doctorates: all candidates are required to present the following documents, regardless of whether or not a score is assigned to them (see below):

- a. a detailed curriculum vitae et studiorum, mentioning the degree score and publications: 15/50
- b. a copy of the Master's degree thesis: 10/50  
For students with a degree awarded by a non-Italian university, an abstract of the thesis in English or Italian is sufficient.

as well as

the research project connected to the doctoral thesis that the candidate wishes to carry out; please use the form available at <http://www.pediatria.univ.trieste.it/dotmi> or else email [tec@burlo.trieste.it](mailto:tec@burlo.trieste.it)

as well as

1. scientific publications (*in extenso*): 15/50
  2. other qualifications: academic and professional qualifications, certified skills and competences, the research project (see the University Rules for Doctorate – art. 11.6): 10/50
- Qualifications Evaluation Form (unless this form is presented, qualifications and publications CANNOT be assessed by the Examining Board)

MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS:..... 30/50

ORAL EXAMINATION MARK OUT OF: ..... 50

MINIMUM SCORE REQUIRED FOR INTERVIEW: ..... 30/50

ABSOLUTE DEADLINE FOR RECEIVING CERTIFICATES: 12.11.2010

ADDRESSES TO WHICH CERTIFICATES SHOULD BE SENT: Segreteria del Dipartimento Scienze della riproduzione e dello sviluppo - via dell'Istria, 65/1 – 34137 TRIESTE -Tel +39 0403785543

**EXAMINATION SCHEDULE:**

- ORAL INTERVIEW: 15.11.2010 at 09.00 a.m. at Aula del Dipartimento Scienze Riproduzione Sviluppo Burlo Garofolo, via dell'Istria, 65/1 – TRIESTE

ALTERNATIVE LANGUAGE TO ITALIAN FOR THE INTERVIEW: English, Portuguese

NB: APPLICANTS FOR ONE/MORE CURRICULA NEED ONLY TO PAY ONCE. They can therefore pay according to the announcement provisions (see Article 3), either for one or all the curricula.

**CONTACT INFORMATION**

DIRECTOR OF THE SCHOOL: Prof. Alessandro VENTURA – Unità clinica operativa di Clinica Pediatrica – Via dell'Istria, 65 - TRIESTE - tel. 040/3785.315; fax 040/3785.362; e-mail [ventura@burlo.trieste.it](mailto:ventura@burlo.trieste.it)

VICE-DIRECTOR: Prof. Paolo GASPARINI – Unità clinica operativa di Clinica Pediatrica – Via dell'Istria, 65 - TRIESTE - tel. 040/3785.275, e-mail [pgasparini@units.it](mailto:pgasparini@units.it)

WEB SITE: <http://www.pediatria.univ.trieste.it/dotmi>

OVERVIEW: The School of Doctorate in Sciences of Reproduction and Development belongs to the homonymous Department. Its objective is to offer an interdisciplinary and international University education directed towards the training of 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 professionals able to represent in the future the staff of the Universities, IRCCS (Scientific Research Institutes) and other Biomedical Research Institutes. The Doctorate makes also available the opportunity to attend international cooperation research programs among developing countries.

**1. CURRICULUM: GENETIC AND MOLECULAR**
**GENERAL DESCRIPTION**

SUBJECT AREAS COVERED BY THE CURRICULUM:

- main area: MED/03
- other areas: MED/38; MED/39, MED/40

RESEARCH FIELDS:

- 1 Pharmacogenomics
- 2 Human and medical genetics
- 3 Preventive medicine

**ADMISSION INFORMATION**

NUMBER OF PLACES AVAILABLE: ..... 6

- SCHOLARSHIPS: ..... 3

- FUNDING BODY/IES:

- Dip. di Universitario Clinico di Scienze della Riproduzione e dello Sviluppo e di Scienze di Medicina Pubblica su fondi IRCCS BURLO GAROFOLO (earmarked for the project “*Basi Molecolari dei tratti quantitativi e dei tratti complessi*”)..... 1
- Università degli studi di Trieste ..... 1
- MIUR “Progetto Giovani Ricercatori” (earmarked for the project “*Analisi Molecolare dell'anemia di Fanconi*”)..... 1

N.B: This scholarship does not provide extra funding for eventual periods of study abroad within the duration of the doctorate, unless the organizing Department decides to make these funds available.

Candidates who accept an earmarked scholarship are committed to the pre-assigned topic

NON-FUNDED PLACES:

- holders of a research grant (see Art. 1.1 - Requirements)..... 1
- grant-holders funded by the Italian Ministry of Foreign Affairs sitting the entrance examination in Trieste ..... 1
- non-EU citizens residing abroad with ministerial authorisation and permitted to sit the entrance examination in the country of origin ..... 1

**CONTACT INFORMATION**

CURRICULUM SUPERVISOR: Prof. Paolo GASPARINI – Unità clinica operativa di Clinica Pediatrica – Via dell'Istria, 65 - TRIESTE - tel. 040/3785.275, e-mail [pgasparini@units.it](mailto:pgasparini@units.it)

VICE: Prof. Alessandro PLEBANI – Dip. Materno infantile e tecnologie biomediche – Università degli studi di Brescia - tel. 030/301152; e-mail [plebani@med.unibs.it](mailto:plebani@med.unibs.it)

OVERVIEW The aim of the School is training in basic aspects of Maternal-Child Medicine, with special regard to medical, biological and educational issues. PhD graduates will have special expertise in methodology and technology as well as in applied research. They could be trained as experts in international health cooperation both in Trieste and in developing countries. Interesting opportunities are offered to young researchers. The Genetic and Molecular course aims to educate skilled professionals in various fields of research such as the

diagnosis and personalized therapy, and are able to communicate and interact with the clinical areas and able to link the research to advanced and experimental health needs. The main areas of research are summarized below: - The specificity of drug therapy in children with particular regard to the pharmacokinetics and pharmacogenetics. Translational biomedical research in rare diseases, chronic diseases and cancer in childhood.

## 2. CURRICULUM: MATERNAL-CHILD-PERINATAL MEDICINE

### GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE CURRICULUM:

- main area: MED/38, MED/39
- other areas: MED/03, MED/39, MED/40, M-Ped/03, M-Psi/04

RESEARCH FIELDS:

- 1 Preventive and social medicine
- 2 Obstetrics and gynaecology
- 3 Perinatology and pediatrics

### ADMISSION INFORMATION

NUMBER OF PLACES AVAILABLE: ..... 4

- SCHOLARSHIPS: ..... 2

- FUNDING BODY/IES:

- Dip. Universitario Clinico di Scienze della Riproduzione e dello Sviluppo e di Scienze di Medicina Pubblica su fondi Associazione AZZURRA Onlus + Assicurazioni Generali (earmarked for the project "*Malattie rare: dalla comprensione delle basi molecolari alla definizione di linee guida. Definizione di modelli malattia - specific*") ..... 1
- Università degli Studi di Trieste ..... 1

Candidates who accept an earmarked scholarship are committed to the pre-assigned topic

NON-FUNDED PLACES:

- holders of a research grant (see Art. 1.1 - Requirements) ..... 1
- grant-holders funded by the Italian Ministry of Foreign Affairs sitting the entrance examination in Trieste ..... 1
- non-EU citizens residing abroad with ministerial authorisation and required to sit the entrance examination in Trieste ..... 1

### CONTACT INFORMATION

CURRICULUM SUPERVISOR: Prof.ssa Tiziana FRUSCA – Clinica Ostetrica e Ginecologica – Università degli studi di Brescia - e-mail [frusca@med.unibs.it](mailto:frusca@med.unibs.it)

VICE: Prof. Secondo GUASCHINO – Unità clinica operativa di Clinica Pediatrica – Via dell'Istria, 65 - TRIESTE - tel. 040/3785.352 fax 040/761266; e-mail [guaschin@burlo.trieste.it](mailto:guaschin@burlo.trieste.it)

OVERVIEW: The aim of the School is training in basic aspects of Maternal-Child Medicine, with special regard to medical, biological and educational issues. PhD graduates will have special expertise in methodology and technology as well as in applied research. They could be trained as experts in international health cooperation both in Trieste and in developing countries. Interesting opportunities are offered to young researchers. Maternal-Fetal, Perinatal and Child Medicine course aims to train researchers capable of implementing clinical trials to evaluate diagnostic and therapeutic pathways validating innovative new guidelines. The main areas of research are summarized below:- Care for perinatal child, obstetrics and neonatology, with particular attention to the prevention of 'handicap', and the interactions between parents and healthy or diseased children.- Pathophysiology of reproduction, infertility and methods of assisted reproduction. - Improvement of pediatric care with particular interest in rare diseases by means of improved diagnostic, development of guidelines, implementation of clinical trials

## 3. CURRICULUM: RELATIONAL AND EDUCATIONAL MEDICINE

### GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE CURRICULUM:

- main area: MED/38
- other areas: MED/39; MED/40, M-Ped/03; M-Psi/04

RESEARCH FIELDS:

- 1 The development from infancy to adolescence
- 2 Preventive and social medicine
- 3 Perinatology and pediatrics
- 4 Chronic diseases and quality of life

### ADMISSION INFORMATION AND REQUIREMENTS

NUMBER OF PLACES AVAILABLE: ..... 4

- SCHOLARSHIPS: ..... 2
- FUNDING BODY/IES:
  - Dip. Universitario Clinico di Scienze della Riproduzione e dello Sviluppo e di Scienze di Medicina Pubblica su fondi AIC (Ass. Italiana celiachia FVG Onlus) + AGD (Aiuto Giovani Diabetici) + Ass. Fibrosi Cistica FVG + Ass. Insieme (earmarked for the project "*Interventi per migliorare l'adesione alle terapie delle malattie croniche infantili*") ..... 1
  - Università degli Studi di Trieste ..... 1

Candidates who accept an earmarked scholarship are committed to the pre-assigned topic

NON-FUNDED PLACES:

- holders of a research grant (see Art. 1.1 - Requirements) ..... 1
- non-EU citizens resident abroad with the Italian Ministry of Foreign Affairs authorization permitted to sit the entrance examination in the country of origin ..... 1

**CONTACT INFORMATION**

CURRICULUM SUPERVISOR: Prof. Roberto RIGARDETTO– Facoltà di Medicina e Chirurgia – Università di Torino - tel. 011/ 3135248; fax 011/ 6634471; e-mail [roberto.rigardetto@unito.it](mailto:roberto.rigardetto@unito.it)

VICE: Prof. Domenico TECILAZICH – Unità clinica operativa di Clinica Pediatrica – Via dell'Istria, 65 - TRIESTE - tel. 040/3785.251; fax 040/3785.362; e-mail [tec@burlo.trieste.it](mailto:tec@burlo.trieste.it)

OVERVIEW: The aim of the School is training in basic aspects of Maternal-Child Medicine, with special regard to medical, biological and educational issues. PhD graduates will have special expertise in methodology and technology as well as in applied research. They could be trained as experts in international health cooperation both in Trieste and in developing countries. Interesting opportunities are offered to young researchers. Relational and Educational course aims to train specialists able to recognize people needs, to evaluate epidemiological surveys and to assess the impact of preventive measures. The main areas of research are summarized below:- The psycho-physical development from prenatal age to adolescence 5 - Prevention in pre-and perinatal period of the neurological 'handicap' and developmental abnormalities - Physical, psychosocial and educational aspects of the development until adolescence and reproductive age - Epidemiology of the health needs of children - The quality of life in relation to the provision of care in paediatric chronic disease - The impact of health and social consequences of technological progress in paediatric

**CHANGES SUBSEQUENT TO 23.07.10**

N.B: the original announcement may be subject to continuous modification. Any changes made subsequent to the original date of publication are listed below :

- 1st addition:
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**IN PRESS**

N.B: the following additions/changes have been requested by the organisers of the Doctorate and will be made official with an supplement to the:

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