



**DOCTORAL SCHOOL IN
SCIENCES OF REPRODUCTION**

GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE SCHOOL:

- main area: MED/38
- other areas: MED/03, MED/39, MED/40, MED/47, M-Ped/01, M-Psi/04

ORGANIZING DEPARTMENT: Dipartimento Univ. Clinico Sc. Mediche, chirurgiche e della salute

PARTICIPATING DEPARTMENTS (Università di Trieste)

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

PARTICIPATING DEPARTMENTS (Università degli Studi di Brescia)

- Dipartimento di Materno-infantile e tecnologie biomediche

PARTICIPATING DEPARTMENTS (Università degli Studi di Torino)

- Dipartimento di Scienze pediatriche e dell'adolescenza

ITALIAN PARTNER UNIVERSITIES:

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

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: 11.11.2011

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: 40

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, transcript of the exams, list of publications, language and computer skills: 12/40 (minimum required 7/40)

b. a copy of the Master's degree thesis: 8/40 (minimum required 5/40)

For students with a degree awarded by a non-Italian university, an abstract (DETAILED) of the thesis in English or Italian is sufficient. Students also have to present a research programme by filling in the form which can be downloaded from the Doctorate website (<http://www.pediatria.univ.trieste.it/dotmi>) or else requested by email to tec@burlo.trieste.it

as well as

1. scientific publications (*in extenso*) (if still in press, the publisher's formal acceptance letter must be attached): 12/40 (minimum required 7/40)

2. other qualifications such as: copy of other degree/post lauream theses; certified competencies; letters of presentation by former supervisors or tutors or similar; teaching activities (eg tutoring, thesis supervision or co-supervision, seminars, formal classes, training classes); volunteer activities; activities outside the country of provenance; election as student representatives in official bodies; study awards and prizes: 8/40 (minimum required 5/40)



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

Sezione Ricerca e Dottorati

Ripartizione Dottorati

- Qualifications Evaluation Form (unless this form is presented, qualifications and publications CANNOT be assessed by the Examining Board)

MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS:..... 24/40

- ORAL EXAMINATION MARK OUT OF:..... 60

MINIMUM SCORE REQUIRED FOR INTERVIEW:..... 36/100

ABSOLUTE DEADLINE FOR RECEIVING CERTIFICATES:..... **14.11.2011 at 12.00 a.m.**

ADDRESSES TO WHICH CERTIFICATES SHOULD BE SENT: U.C.O. di Clinica pediatrica del dipartimento DSM di UNITS (Ospedale IRCCS Burlo Garofolo via dell'Istria 65/1 Trieste) to the attention of the secretary Ms Daniela Predonzani or of prof Domenico Tecilazich. Emails will not be accepted.

EXAMINATION SCHEDULE:

- ORAL INTERVIEW: **21.11.2011 at ore 9.00 a.m.** at room "A" Burlo Garofolo, via dell'Istria, 65/1 – TRIESTE

ALTERNATIVE LANGUAGE TO ITALIAN FOR THE INTERVIEW: English

CEFR LEVEL: B2

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

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

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

SCIENTIFIC PROJECT: The PHD School of Science of Reproduction and Development was established under the aegis of the Department of the same name with the aim of offering an interdisciplinary university training and, where possible, international, aimed at preparing highly qualified scientific researchers in the biomedical sciences, especially in the area of maternal and child that can represent in the near future the system of organic IRCCS (Institute for Scientific Research and Care) and other biomedical research institutes. It is also given the opportunity to form international cooperation in the development of emerging countries. The draft program includes three areas: Molecular genetics, Relational education, Maternal fetal perinatology and child medicine. The address of Molecular Genetics aims to train qualified professionals in various fields of research such as diagnosis and personalized therapies, and are able to communicate and interact with clinical areas and be able to finalize advanced and experimental care needs. The address Relational education aims to train specialists capable of being able to detect the needs of people, knowing how to make and assess the epidemiological surveys and being able to assess the impact of preventive measures. The Maternal fetal Perinatology and Child Medicine aims to train researchers capable of implementing clinical trials, aims to evaluate diagnostic and therapeutic while validating innovative new guidelines.

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CURRICULUM: GENETIC AND MOLECULAR

GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE CURRICULUM:

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

RESEARCH FIELDS:

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

ADMISSION INFORMATION

NUMBER OF PLACES AVAILABLE:6

Please note that the number of seats available has increased from 6 to 8, the amendment added 18/11/2011

- SCHOLARSHIPS: 3

FUNDING BODY/IES:

- [cod D/1/1] Dip. Universitario Clinico Scienze. Mediche, chirurgiche e della salute funded by *IRCCS BURLO GAROFOLO* 1
- [cod M/2/1] Università degli studi di Trieste 1
- [cod G/3/1] MIUR "Progetto Giovani Ricercatori" (Project title: "*Molecular basis of hematological disease*") 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 the country of origin1
- non-EU citizens residing abroad with ministerial authorisation and permitted to sit the entrance examination in the country of origin1

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

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

EDUCATIONAL AIMS AND RESEARCH TOPICS: 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.



CURRICULUM: FETAL, PERINATAL AND CHILD MEDICINE

GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE CURRICULUM:

- main area: MED/38
- other areas: MED/40, MED/47

RESEARCH FIELDS:

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

ADMISSION INFORMATION

NUMBER OF PLACES AVAILABLE:6

Please note that the number of seats available has increased from 4 to 6, the amendment added 18/11/2011

- SCHOLARSHIPS: 2

FUNDING BODY/IES:

- [cod D/1/2] Dip. Universitario Clinico Scienze. Mediche, chirurgiche e della salute funded by *Prof Fiora Bartoli eminente studioso* 1
- [cod M/2/2] Università degli Studi di Trieste 1

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 the country of origin1
- non-EU citizens residing abroad with ministerial authorisation and permitted to sit the entrance examination in the country of origin1

CONTACT INFORMATION

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

VICE: Prof. Secondo GUASCHINO – Unità clinica operativa di Ginecologia e Ostetricia – Via dell'Istria, 65 - TRIESTE - tel. 040/3785.352 fax 040/761266; e-mail guaschin@burlo.trieste.it

EDUCATIONAL AIMS AND RESEARCH TOPICS: 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.



CURRICULUM: RELATIONAL AND EDUCATIONAL

GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE CURRICULUM:

- main area: MED/38
- other areas: MED/39, MED/40, MED/47, M-Ped/01, M-Psi/04, MED/38;

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:6

Please note that the number of seats available has increased from 4 to 6, the amendment added 18/11/2011

- SCHOLARSHIPS: 2

FUNDING BODY/IES:

- [cod D/1/3] Dip. Universitario Clinico Scienze. Mediche, chirurgiche e della salute funded by Prof Raffaele Badolato Dipartimento materno infantile e tecnologie biomediche Università di Brescia 1
- [cod M/2/3] Università degli studi di Trieste 1

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 the country of origin1
- non-EU citizens residing abroad with ministerial authorisation and permitted to sit the entrance examination in the country of origin1

CONTACT INFORMATION

CURRICULUM SUPERVISOR: 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

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

EDUCATIONAL AIMS AND RESEARCH TOPICS: 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 paediatrics.