



UNIVERSITÀ  
DEGLI STUDI DI TRIESTE

Rettorato e Direzione Generale  
Sezione Ricerca e Dottorati  
Ripartizione Dottorati

LAST REVISED 23 settembre 2013

**DOCTORAL PROGRAMME IN  
MOLECULAR BIOMEDICINE**

**NOTE:** This attachment provides only partial information. Exhaustive information, including how to register for the selection, is published in the Admission Announcement posted in the web page <http://www2.units.it/dottorati/> >> Admission Announcement.

Deadline for online application	<b>16<sup>th</sup> September 2013 h.11:30 a.m. CET</b>
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**GENERAL DESCRIPTION**

**SUBJECT AREA:**

- main area: 05
- other areas: 06, 03

**MACRO RESEARCH FIELDS:**

- main area: 05/E
- other areas: 05/F; 06/A; 06/B; 05/G; 06/D; 05/D; 03/C

**SCIENTIFIC DISCIPLINARY SECTOR:**

- main area: BIO/10
- other areas: BIO/13; MED/09; BIO/11; BIO/14; MED/12; BIO/12; MED/11; MED/04; CHIM/04; BIO/09

**DOMAIN EUROPEAN RESEARCH COUNCIL:**

- LS

**ERC PANELS:**

- main area: LS1
- other areas: LS3; LS4; LS6; LS7

Information on the codes can be found online at the address: <http://www.units.it> >> Research >> Doctorates >> Admission >> Admission Announcement and relative attachments - Board of Examiners - Eligible Candidates/Merit list>> Research codes

**RESEARCH FIELDS:**

1. Molecular oncology
2. Molecular pathophysiology
3. Regenerative medicine
4. Molecular therapeutics and diagnostics
5. Tissue engineering
6. Molecular microbiology

**LOCATION: Trieste**

- ORGANIZING DEPARTMENT: Dip. di Scienze della Vita

PARTICIPATING DEPARTMENTS: Dip. Clinico di Scienze mediche, chirurgiche e della salute

**NON-ACCREDITED PARTICIPATING INSTITUTIONS:**

- LNCIB - Laboratorio Nazionale - Consorzio Interuniversitario per le Biotecnologie – Trieste

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- ICGEB - International Centre for Genetic Engineering and Biotechnology
- FIF - Fondazione Italiana Fegato – Trieste
- CBM - Consorzio di Biomedicina Molecolare - Trieste

DURATION: 3 anni

MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD IN THREE YEARS: 12

OFFICIAL LANGUAGE OF THE COURSE: English

## ADMISSION INFORMATION

NUMBER OF PLACES AVAILABLE: .....18

RESERVED PLACES.....2

- [cod R/3] scholarships funded by international mobility programmes .....2

SCHOLARSHIPS AVAILABLE WITH INDICATION OF FUNDING BODY:

- [cod FSE/M/1] Università degli Studi di Trieste funded by the Region Friuli Venezia Giulia, with resources provided by the European Social Fund, Operational Programme 2007/13, Axis 5 Transnational and Interregional Cooperation.....1

- [cod FSE/M/2] Università degli Studi di Trieste funded by the Region Friuli Venezia Giulia, with resources provided by the European Social Fund, Operational Programme 2007/13, Axis 5 Transnational and Interregional Cooperation (Project title: “*Functions and dysfunctions of p53 in cancer*”).....1

- [cod MD/3] Università degli Studi di Trieste + Dip. Scienze della Vita .....1

- [cod MD/4-5] Università degli Studi di Trieste + Dip. di ingegneria e architettura .....2

- [cod MD/6] Università degli Studi di Trieste + Dip. di Scienze della Vita funded by Fondazione Italiana Fegato (FIF) di Trieste (Project title: “*In vivo protective mechanisms toward bilirubin neurotoxicity*”).....1

- [cod MD/7] Università degli Studi di Trieste + Dip. di Scienze della Vita funded by Laboratorio Nazionale CIB (LNCIB) di Trieste (Project title: “*Non-coding RNA based mechanisms in cancer and senescence*”).....1

- [cod MD/8] Università degli Studi di Trieste + Dip. di Scienze della Vita funded by Laboratorio Nazionale CIB (LNCIB) di Trieste (Project title: “*Coding and non-coding genes in tumor suppression*”) .....1

- [cod D/9] Dip. di Scienze della Vita funded by Laboratorio Nazionale CIB (LNCIB) di Trieste (Project title: “*Coding and non-coding genes in metastasis regulation*”) .....1

- [cod D/10] Dip. di Scienze della Vita funded by Novartis Vaccines Institute for Global Health di Siena (Project title: “*Improving Immunity to non-typhoidal Salmonellae through novel O-antigen polysaccharide-conjugate vaccines*”) .....1

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

PLACES WITH JOINT SUPERVISION OF THESIS: students from foreign universities may be admitted to the Ph.D. programme with a joint supervision of their thesis

ACADEMIC QUALIFICATION REQUIRED: see Announcement (art. 2 - Requirements)

1. Italian Master’s Degree “Laurea Specialistica/Magistrale” or Degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 Novembre 1999, updated with D.M. n. 270 of 22 October

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- 2004, n. 270, (or a qualification corresponding to a Master's -second level- degree);
2. an equivalent foreign academic qualification awarded abroad
  3. an academic qualification awarded abroad which is considered to be equivalent to the Italian degree that allows the holder to undertake Ph.D. studies for duration, level and area of study

**DEADLINE FOR COMPLETION OF DEGREE: ..... 31.10.2013**

**ASSESSMENT CRITERIA:** qualifications + oral interview (upon request from the candidate, the interview may be carried out through videoconference – art. 6.1 bis of Announcement) **LAST UPDATED ON 27.08.2013!**

Only for ESF scholarships: project + qualifications + oral interview (upon request from the candidate, the interview may be carried out through videoconference – art. 6.1 bis of Announcement) **LAST UPDATED ON 27.08.2013**

Only for Reserved Places [cod R/3]: qualifications

- **MAXIMUM 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):.....120/120
- MINIMUM FINAL SCORE REQUIRED:**.....75/120
- MAXIMUM FINAL SCORE only for ESF scholarships** (based on the sum of the mark obtained in the oral examination, the points given for qualifications and for the project) .....150/150
- MINIMUM FINAL SCORE REQUIRED (only for ESF scholarships):**.....90/150
- MAXIMUM FINAL SCORE (only for reserved places [cod R/3])** .....10/10
- MINIMUM FINAL SCORE REQUIRED (only for reserved places [cod R/3]):**.....6/10
- **MAXIMUM NUMBER OF POINTS AWARDED FOR PROJECT (only for ESF scholarships)** .....30/30

Project assessment shall take into account:

- 1 the value of the Research Project in relation to set objectives
- 2 the quality of the Research Project with specific attention to adopted methodology and chronogram of activities

**MINIMUM SCORE REQUIRED FOR PROJECT (only for ESF scholarships):** ..... 15/30

- **MAXIMUM NUMBER OF POINTS AWARDED FOR QUALIFICATIONS+ PUBLICATIONS:** 20/20
- WEIGHTING OF THE QUALIFICATIONS:**

- "Integration to application" (unless this form is presented, qualifications and publications CANNOT be assessed by the Examining Board):

a. a detailed curriculum vitae et studiorum: 14/20

b. as well as 6/20:

1. Candidate's Presentation [Letter of presentation in English describing the candidate's motivation and aims, and short synopsis of MA degree in English (max 600 words)]

2. Two reference letters

**MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS:** .....no

- **MAXIMUM NUMBER OF POINTS AWARDED FOR QUALIFICATIONS+ PUBLICATIONS (only for reserved places [cod R/3]):**..... 10/10

**WEIGHTING OF THE QUALIFICATIONS:**

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- "Integration to application" (unless this form is presented, qualifications and publications CANNOT be assessed by the Examining Board):

- a. a detailed curriculum vitae et studiorum: 7/10
- b. abstract of the MA thesis in English: 3/10

MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS (only for reserved places [cod R/3]): .....6/10

- ORAL EXAMINATION MARK OUT OF:.....100/100

MINIMUM SCORE REQUIRED FOR INTERVIEW:.....70/100

**DEADLINE FOR SUBMITTING QUALIFICATIONS AND PUBLICATIONS AND PROJECT (IF FORESEEN): ..... 10.10.2013**

QUALIFICATIONS AND PUBLICATIONS MAY BE SUBMITTED (art. 5.1.4 of the Ph.D. Announcement):

- as an attachment to the online admission application (upload)
- only for publications that are voluminous or not available in electronic format, as long as they are listed in the form "Integration to application" (digital format preferable): To the email address: [dmm@units.it](mailto:dmm@units.it) (maximum size of attachment 8 MB). If email cannot be used, deliver by hand at the following address: dott. Dessenibus, Segreteria Didattica DSV – via Valerio, 12/2, edificio H3, 34127 Trieste

EXAMINATION SCHEDULE:

- INTERVIEW: **17.10.2013 at 09.15 a.m. (Italian time)** at Università degli Studi di Trieste - Sala riunioni of Dip. di Scienze della Vita, Building Q, Via L. Giorgieri 5, 34127 Trieste  
Upon request from the candidate, the interview may be carried out through videoconference, with the same schedule

ALTERNATIVE LANGUAGE TO ITALIAN FOR THE INTERVIEW: English

## CONTACT INFORMATION

CHAIR: Prof. Guidalberto Manfioletti Dipartimento di Scienze della Vita - Università degli Studi di Trieste - tel. 040558.8720 - 2441 - 2442 fax 040/558.3691 e-mail [manfiole@units.it](mailto:manfiole@units.it)

WEB SITE: <http://www2.units.it/dmm/>

**EDUCATIONAL AIMS:** The PhD program in Molecular Biomedicine aims to provide higher education to young University graduates in biomedical – and scientific in general – disciplines, to prepare them for a career in basic, clinical or translational research in the field of molecular medicine, with specific reference to the areas of molecular oncology, metabolic diseases, molecular genetics, biochemistry, cell biology, regenerative medicine, and pharmacology. Key to the program is research activity in the laboratory, where students develop a critical approach to scientific observation and carry out a specific project; such research is expected to be translated into one or more publications in international peer-reviewed journals.

To provide specific competences the Program organizes intensive courses on the

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core disciplines of modern bimolecular science. □ The teaching activity of the Program relies essentially on seminars given by national and international experts. The program also aims to provide students with expertise in science management, more specifically in “grant-writing”, and the development of technologically oriented research projects. The PhD program in Molecular Biomedicine is a logical choice for young University graduates in biomedical subjects (e.g. Medicine, Biology, Biotechnology, Pharmacology), but also other experimentally oriented fields of study (e.g. Physics, Chemistry), who wish to pursue a career in basic and translational biomedical research. The PhD program covers the following fields of research: Molecular oncology, Molecular Pathophysiology, Molecular Microbiology, Tissue engineering, Regenerative Medicine, Molecular therapeutics and diagnostics.

The program gathers a significant number of researchers with strong experience in many fields of biomedicine, and offers to prospective students a broad set of choices spanning the entire spectrum of modern research in molecular medicine. The PhD program is part of a newly created Italian Network of PhD programs in biomedical and biotechnological sciences (NEIDOS, <http://dev.neidos.it>) which involves the two major scientific societies in this field: the Association of Cell Biology and Differentiation (Associazione Biologia Cellulare e Differenziamento, ABCD) and the Italian Society of Biophysics and Molecular Biology (Società Italiana di Biofisica e Biologia Molecolare, SIBBM). NEIDOS is a spontaneous gathering of Italian Graduate Schools and Courses, which aims at an overall improvement of the training and educational activities offered by national graduate programs, to make them more attractive to bright, talented and highly motivated students, both nationally and internationally.

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