

Sezione Ricerca e Dottorati Ripartizione Dottorati

LAST REVISED 28/09/2011

DOCTORAL SCHOOL IN MOLECULAR BIOMEDICINE

GENERAL DESCRIPTION

CLID IECT	VDEVC	COVERED	DV TUE	SCHOOL .
OUDIECT	ALEAS	COVERED		SUDUUL:

- main area: BIO/10

- other areas: BIO/06; BIO/09; BIO/11; BIO/12; BIO/13; BIO/14; BIO/18; MED/01; MED/03; MED/04; MED/05; MED/06;

MED/07; MED/08; MED/09; MED/11; CHIM/04; CHIM/05; CHIM/06; CHIM/09; INF/01

RESEARCH FIELDS:

- 1. Molecular Pathophysiology
- 2. Molecular genetics
- 3. Tissue engineering
- 4. Molecular oncology
- 5. Molecular Therapeutics and Diagnostic

ORGANIZING DEPARTMENT: Dip. di Scienze della vita

OTHER PARTICIPATING INSTITUTIONS (Italian):

- CBM Cluster in biomedicine TriesteFIF Fondazione Italiana Fegato Trieste
- LNCIB Laboratorio Nazionale Consorzio Interuniversitario per le Biotecnologie Trieste
- CRO Aviano (PN)
- Sincrotrone Trieste S.C.p.A.
- ICGEB International Centre for Genetic Engineering and Biotechnology

DURATION: 3 years

MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD: 12

OFFICIAL LANGUAGE OF THE SCHOOL: English

ADMISSION INFORMATION

NUMBER OF PLACES AVAILABLE:	18
- SCHOLARSHIPS:	11
FUNDING BODY/IES:	
- [cod M1-2] Università degli Studi di Trieste	
- [cod G/3] MIUR funded by "Fondo Giovani Ricercatori" (MIUR "Progetto Giovani Ricercatori" (reserved to one	
of the following research projects within the strategic program Human Health (post genomic approaches to	
the study and treatment of cancer and neurodegenerative disease): 1) "Role of microRNAs in the regulation	
of the p53 pathway", 2) "Oncogenic (Gain Of Function) activities of mutant p53 in tumor progression", 3)	
"Characterization of the functional interaction between tumor suppressor p53 and a ribosome assembly	
factor")	
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.	
- [cod MD/4-9]Università degli Studi di Trieste + Dip. Scienze della Vita	
- [cod D/11-] Dip. Scienze della Vita (Project title "Elucidation of the structure and function of human MCM	
helicases")	
······································	4
 holders of a research grant (see Art. 1.1 - Requirements) grant-holders funded by the Italian Ministry of Foreign Affairs sitting the entrance examination in the country 	I
- grant-holders funded by the italian wilhistry of Foreign Ahalis sitting the entrance examination in the country	

Università degli Studi di Trieste
Piazzale Europa, 1
Fax +39 040 558 3182
Fax +39 040 558 3008
dottorati@amm.units.it

www.units.it



Sezione Ricerca e Dottorati

Ripartizione Dottorati

	JIRED: see Announcement (art. 1.1 - Requirements) DEGREE:tions L aral interview	14.11.2011		
	s based on the sum total of marks obtained in the interview plus the points given			
	s):s):	120		
	JIRED:			
	S AWARDED FOR QUALIFICATIONS+ PUBLICATIONS:			
QUALIFICATIONS REQUIRED/		20/20		
	s: all candidates are required to present the following documents, regardless of			
whether or not a score is ass				
	ae et studiorum, + degree score and publications: 14/20			
b. a copy of the Master's de				
	gree awarded by a non-Italian university, an abstract of the thesis in English or			
Italian is sufficient.				
as well as 6/20:				
	ation (in English) outlining the candidate's reasons for wishing to enroll in the			
doctoral programme and the research objectives s/he intends to achieve by the end of the Doctoral				
course:	a the research objectives sine intends to achieve by the end of the boctoral			
,	lish, of the degree thesis (maximum 600 characters);			
3. Two letters of presentations				
	orm (unless this form is presented, qualifications and publications CANNOT be			
assessed by the Examining				
	FOR QUALIFICATIONS/PUBLICATIONS:	5/20		
ORAL EXAMINATION MARK OUT OF:				
	FOR INTERVIEW:			
	ECEIVING CERTIFICATES:14.11.2011 (if by email within by midnig			
	RTIFICATES SHOULD BE SENT: by e-mail to the address of the School:	, 021)		
	post to the following address: Prof. Del Sal, LNCIB - AREA Science Park,			
Padriciano 99, 34149 Trieste.	poor to the following address: From Der Gai, Elvoid 7the/t Goldhoe Faitt,			
EXAMINATION SCHEDULE:				
	1.2011 at 09.30 a.m. at "Sala Riunioni", Dipartimento di Scienze della Vita, Via L.			
	gieri, 1 – 34127 TRIESTE			
	ITALIAN FOR THE INTERVIEW: English			
CEFR LEVEL:	TIALIANT OIT THE INTERVIEW. English			
OLITICE VEE.	CONTACT INFORMATION			
DIRECTOR OF THE SCHOOL:	Prof. Giannino Del Sal - Dipartimento di Scienze della Vita - Università degli Sti	udi di Trieste -		
	tel. 040/398.992 fax 040/398.990 e-mail <u>delsal@lncib.it</u>			
VICE DIRECTOR:	Prof. Guidalberto Manfioletti Dipartimento di Scienze della Vita - Università	degli Studi di		

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

SCIENTIFIC PROJECT: Molecular Medicine studies the molecular bases of health and disease, producing knowledge that may be useful in diagnosis and therapy. Sequencing of the human genome opened a new avenue for research in medicine, that will lead to key improvements in our understanding of the mechanisms of disease, and their treatment (globally referred to as "post-genomic" science). In the near future it will be possible to define molecular and genetic mechanisms of diseases, evaluate the genetic risk of disease, and predict the outcome of treatment for each patient.

Trieste - tel. 040/558.3690 fax 040/558.3691 e-mail manfiole@units.it

Università degli Studi di Trieste Piazzale Europa, 1 I-34127 Trieste Tel. +39 040 558 3182 Fax +39 040 558 3008 dottorati@amm.units.it



Sezione Ricerca e Dottorati

Ripartizione Dottorati

Molecular Medicine aims to integrate technological and scientific advances with a novel approach to the patient and his/her needs, aiming to develop personalized pharmacological treatments as well as a more efficient prevention of diseases, based on the genetic profile of each individual.

This School aims to prepare young scientists that will be able to think and develop independent research projects that will be internationally competitive in the field of Molecular Medicine. Both in the area of basic research, as well as in the area of technological transfer and clinical applications.

To achieve this objective, the School encourages and promotes critical knowledge of state-of-the art literature, but mostly will give the students a solid research experience in laboratories of high international profile. The School has therefore a strong experimental connotation. Training of PhD students involves:

- i) daily research activity in close interaction with high quality researchers,
- ii) attendance to seminars of Italian and international scientists,
- iii) presentations activities (progress reports),
- iv) critical reading of the literature (Journal clubs),
- v) training in writing of project proposals and progress reports (important for future grant applications).

This practical research activity is integrated by periodic seminar courses organized by members of the teaching board.

Particular attention is devoted to monitoring and evaluation of the career of the students, and their progress during their training.

To guarantee a high quality standard of research, also the host laboratories must be evaluated. The Scientific Board of the School will carefully review international standing and scientific productivity of the supervisors who request PhD students, with particular attention to the availability of sufficient funding and infrastructure.

EDUCATIONAL AIMS AND RESEARCH TOPICS: The PhD School 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 School organizes intensive courses on the core disciplines of modern bimolecular science. The teaching activity of the School 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 School 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 School 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. Currently, the School covers the following fields of research: Molecular oncology, Pathophysiology of metabolism, Tissue engineering, Molecular genetics, Molecular therapeutics and diagnostics. The School 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.

Università degli Studi di Trieste Piazzale Europa, 1 I-34127 Trieste

Tel. +39 040 558 3182 Fax +39 040 558 3008 dottorati@amm.units.it