



UNIVERSITY OF PADOVA
FACULTY OF MEDICINE AND SURGERY

INTERNATIONAL MASTER

Biological and Polymeric Delivery Systems: Development of Vaccines and Therapeutic Applications



Notice Expire date: 29 August 2008

Sponsored the Italian Ministry of University and Research and all Partner Institutions

	<p>1st cycle degree – 3 years (DM 509/99)</p> <p>2nd cycle degree – 2 years – and one-tier degree (DM 509/99)</p> <p>Three-years University Diploma (old education system, pre-DM 509/99)</p>	<p>Classes: biotechnologies; biological sciences; chemical technologies and sciences; pharmaceutical technologies and sciences.</p> <p>Classes: biology; medical, veterinary and pharmaceutical biotechnologies; pharmacy and industrial pharmacy; medicine and surgery; veterinary medicine.</p> <p>Courses: biology, industrial biotechnologies; chemistry; biotechnology engineers.</p>
Admission requirements for foreign students	At least a 1 st cycle degree (180 ECTS credits, 3 years duration). The Organizing Committee will evaluate the degrees and declare the equivalence to the Italian degrees required.	
Selection	<p>Submissions:</p> <ul style="list-style-type: none"> - curriculum vitae; - thesis; - any other publication; - anything else the candidate may deem useful; <p>Possible interview</p> <p>Preferred requirements: fluent English, personal motivation, previous experience</p>	
General criteria for the evaluation of the applications	<p>Curriculum vitae: 30 (maximum score)</p> <p>thesis: 15 (maximum score)</p> <p>other publications: 10 (maximum score)</p> <p>other submissions the candidate might deem useful: 10 (maximum score)</p> <p>Possible oral test: min 5 - max 10 (score)</p> <p>Min/Max total score: min 5 - max 75</p>	
Expected dates for the entrance tests	Possible interview : The date and time of the test shall be communicated via e-mail.	
Enrolment fees	<p>2.573,12 €</p> <p>First instalment: 1.298,12 €</p> <p>Second instalment: 1.275,00 €</p>	
Expense refunds	Expense refunds for 10 students according to the general conditions of this selection notice	
Deadlines	<ul style="list-style-type: none"> - expiring date for submitting the application: August 29, 2008 within 1 p.m. - publication of the list: from September 30, 2008 - enrolment expiring date: October 10, 2008 - replacements: see general provisions 	
Address where sending applications	<p>University of Padova - Faculty of Medicine and Surgery</p> <p>Via Giustiniani 2 - 35128 Padova (Italy)</p> <p>Contact: Fiorella Baldan/Daniele Gatto</p>	
For further information about the Master course and the selection notice	<p>Please visit the web site:</p> <ul style="list-style-type: none"> - http://www.unipd.it/master/elenco/sistemidel.htm - each institution's web site - contact the local teacher 	

There is an important need to combat diseases which have a devastating impact on human and veterinary health, such as infectious diseases, tumors, chronic diseases (i.e. cardiovascular, neurologic and autoimmune disorders), and the development of new effective vaccines and therapies represents an unique opportunity to achieve this goal. Through an unique partnership among 10 European Academic and Research Institutions internationally recognized for their contribution to the development of innovative prophylactic and therapeutic strategies, and already collaborating in National and European education and research programmes, this Master Course will offer the opportunity to gain insight into the world of the next generation of vaccines and novel therapies.

Partnership

INSTITUTION	Local Teacher (e-mail address)
University of Padova (Italy)	Dr. Antonella Caputo (antonella.caputo@unipd.it)
University of Ferrara (Italy)	Dr. Riccardo Gavioli (gvr@unife.it)
University of Urbino (Italy)	Dr. Mauro Magnani (magnani@uniurb.it)
University of Piemonte Orientale (Italy)	Dr. Michele Laus (laus@unipmn.it)
Consiglio Nazionale delle Ricerche– Area della Ricerca di Bologna (Italy)	Dr. Luisa Tondelli (tondelli@isof.cnr.it)
Istituto Superiore di Sanità (Italy)	Dr. Barbara Ensoli (ensoli@iss.it) Dr. Stefano Buttò (butto@iss.it)
Karolinska Institute(Sweden)	Dr. Jan Ingermar Flock (jan-ingmar.flock@ki.se) Dr. Britta Wahren (britta.wahren@smi.ki.se)
Swedish Institute for Infectious Disease Control, (Sweden)	Dr. Mia Brytting (mia.brytting@smi.ki.se) Dr. Britta Wahren (britta.wahren@smi.ki.se)
University of Wien (Austria)	Dr. Werner Lubitz (werner.lubitz@univie.ac.at)
Helmholtz-Zentrum für Infektionsforschung GmbH (Germany)	Dr. Carlos Guzman (carlos.guzman@helmholtz.hzi.de)

The Program is sponsored by the Italian Ministry of University and Research and all Partner Institutions

General Informations

Level	1	
Duration	One year	
University training 'credits'/Ects	60	
Language	English	
Director	Antonella Caputo Faculty of Medicine and Surgery 049 8272350 – 2340 antonella.caputo@unipd.it	
Acquirable professional competences	Technical training in immunology, applied biology, microbiology, infective diseases, clinical development of gene therapies and innovative vaccines; practical experience in molecular biology techniques, protein production/purification, delivery of proteins and DNA with polymeric and biologic systems, animal models, immunization, analysis of immune responses and challenge models; integrated competences in infective disease areas, applied biology/immunology and those correlated to the development of innovative therapies/ prophylaxes. The course prepares specialists for the academic world and not for pharmaceutical, biotechnological and biomedical industries.	
Synthesis of the contents	43 weeks divided into: 4 weeks (5 ECTS) – distance learning before front classes to standardize the backgrounds of all students. A verification test is planned. 10 weeks (20 ECTS) – at Padova University: 160 hours' front classes and 320 hours' study. At the end of the 10 weeks there is an exam. 25 weeks – work in laboratory in at least 2 associated Institutions and 4 weeks – finalization of the Master thesis and of an article to be sent to a scientific magazine for publication (35 credits ECTS). Final discussion of the thesis	
Course organization	Compulsory attendance: 70% Attendance: Distance learning: 4 weeks before the front classes. Front classes, seminars and testimonies from experts (10 weeks at Padova University). Project work (25 weeks, of which at least 13 at a foreign associated and 12 at an Italian Institution) and finalization of the thesis and preparation of the manuscript (4 weeks) Type of teaching: Classes, seminars; project work; distance learning Final test: Discussion of the final examination paper	
Place where the course is held	Università degli Studi di Padova (front classes) Via A. Gabelli 63 - 35122 Padova Associated Institutions (project work) their offices	
Starting date	October 2008	
Ending date	October 2009	
Available places	Min: 10 Max: 15	
Admission requirements for Italian students	4/5/6 years degrees (old education system, pre-DM 509/99)	Courses: pharmaceutical biotechnologies; medical biotechnologies; veterinary biotechnologies; biotechnologies; chemistry and pharmaceutical biotechnologies; industrial chemistry; chemistry; medicine and surgery; veterinary medicine; biological sciences.