



UNIVERSITÀ  
DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali  
Settore Servizi agli studenti e alla didattica  
Ufficio Dottorati di ricerca

ATTACHMENT 3

LAST REVISED 18/05/2017

**PhD IN  
CHEMISTRY  
(under the agreement with the University Ca' Foscari Venezia)  
OVERVIEW**

**IN BRIEF**

***Lines of research***

- 1 Biocrystallography
- 2 Pharmaceutical biology
- 3 Inorganic, bio-inorganic and organometallic chemistry
- 4 Organic and bio-organic chemistry
- 5 Homogeneous and heterogeneous catalysis and bio-catalysis
- 6 Supramolecular chemistry and catalysis
- 7 Theoretical and computational chemistry
- 8 Medicinal chemistry
- 9 Analytical and environmental chemistry
- 10 Chemistry for Cultural Heritage
- 11 Electrochemistry and sensors
- 12 Green and sustainable chemistry
- 13 Chemical engineering
- 14 Advanced materials and thin films
- 15 Nanosciences and nanotechnologies
- 16 Molecular spectroscopy
- 17 Pharmaceutical Technologies
- 18 Physical chemistry
- 19 Industrial chemistry

***Administrative location***

University of Trieste

***Organizing Department***

Department of Chemical and Pharmaceutical Sciences

***Participating Departments***

Department of Engineering and Architecture

Department of Life Sciences

<b>Partner University</b>	University Ca' Foscari Venezia	
<b>Partner University Department</b>	Department of Molecular Sciences and Nanosystems	
<b>Duration</b>	3 years	
<b>Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)</b>	1-18	
<b>Official language</b>	Italian	
<b>Language (alternative to Italian) partially used in PhD activities</b>	The PhD course activity is partially performed in English, since some seminars and some courses are given in English. In case of PhD students from abroad, also courses which are normally given in Italian could be given in English.	
<b>Subject Areas</b> (in alphabetical code order)	02	PHYSICS
	03	CHEMISTRY
	09	INDUSTRIAL AND INFORMATION ENGINEERING
<b>Macro Research Fields</b> (in alphabetical code order)	02/B	PHYSICS OF MATTER
	03/A	ANALYTICAL AND PHYSICAL CHEMISTRY
	03/B	INORGANIC CHEMISTRY AND APPLIED TECHNOLOGIES
	03/C	ORGANIC, INDUSTRIAL AND APPLIED CHEMISTRY
	03/D	MEDICINAL AND FOOD CHEMISTRY AND APPLIED TECHNOLOGIES
	09/D	CHEMICAL AND MATERIALS ENGINEERING
<b>Scientific Disciplinary Sectors</b> (in alphabetical code order)	CHIM/01	ANALYTICAL CHEMISTRY
	CHIM/02	PHYSICAL CHEMISTRY
	CHIM/03	GENERAL AND INORGANIC CHEMISTRY
	CHIM/04	INDUSTRIAL CHEMISTRY
	CHIM/06	ORGANIC CHEMISTRY
	CHIM/08	PHARMACEUTICAL CHEMISTRY
	CHIM/09	PHARMACEUTICAL AND TECHNOLOGICAL APPLICATIONS OF CHEMISTRY
	FIS/01	EXPERIMENTAL PHYSICS
	ING-IND/24	FUNDAMENTALS OF CHEMICAL ENGINEERING
<b>Domain European Research Council</b>	PE	PHYSICAL SCIENCES AND ENGINEERING
	LS	LIFE SCIENCES
<b>ERC Panels</b>	PE4	PHYSICAL AND ANALYTICAL CHEMICAL SCIENCES: ANALYTICAL CHEMISTRY, CHEMICAL THEORY, PHYSICAL CHEMISTRY/CHEMICAL PHYSICS
	PE5	SYNTHETIC CHEMISTRY AND MATERIALS: MATERIALS SYNTHESIS, STRUCTURE-PROPERTIES RELATIONS, FUNCTIONAL AND ADVANCED MATERIALS, MOLECULAR ARCHITECTURE, ORGANIC CHEMISTRY
	PE8	PRODUCTS AND PROCESSES ENGINEERING: PRODUCT DESIGN, PROCESS DESIGN AND CONTROL, CONSTRUCTION METHODS, CIVIL ENGINEERING, ENERGY SYSTEMS, MATERIAL ENGINEERING
	LS9	APPLIED LIFE SCIENCES AND BIOTECHNOLOGY: AGRICULTURAL, ANIMAL, FISHERY, FORESTRY AND FOOD SCIENCES; BIOTECHNOLOGY, CHEMICAL BIOLOGY, GENETIC ENGINEERING, SYNTHETIC BIOLOGY, INDUSTRIAL BIOSCIENCES; ENVIRONMENTAL BIOTECHNOLOGY AND REMEDIATION

## WHO'S WHO

under the agreement with the University Ca' Foscari Venezia

<b>Chair</b>	<p>Prof Mauro Stener - Department of Chemical and Pharmaceutical Sciences - University of Trieste – Via L. Giorgeri, 1 - phone +39 040 558.3949; fax +39 040 558.3903; email <a href="mailto:stener@univ.trieste.it">stener@univ.trieste.it</a></p> <p><b>da 01.11.2017:</b></p> <p>Prof Barbara Milani - Department of Chemical and Pharmaceutical Sciences – University of Trieste - phone +39 040.558.3956; email <a href="mailto:milaniba@units.it">milaniba@units.it</a></p>
<b>Vice</b>	<p>Prof. Maurizio Selva – Department of Molecular Sciences and Nanosystems - University Ca' Foscari Venezia – phone +39 041 234.8687 Lab. +39 041 234.8982; email <a href="mailto:selva@unive.it">selva@unive.it</a></p> <p><b>da 01.11.2017:</b></p> <p>Prof. Alessandro Scarso – Department of Molecular Sciences and Nanosystems – University Ca' Foscari Venezia - phone +39 041 234 8569 - Lab.: +39 041 234 8575; fax +39 041 234 8517; email <a href="mailto:alesca@unive.it">alesca@unive.it</a></p>
<b>Web site</b>	<a href="http://web.units.it/dottorato/chimica/en">http://web.units.it/dottorato/chimica/en</a>
<b>Email</b>	<a href="mailto:dottorato.chimica@units.it">dottorato.chimica@units.it</a>
<b>Course description and objectives</b>	<p>The primary goal of the Ph.D course in chemistry is the training in order to obtain proper skills in the chemistry field, to carry on an independent and autonomous research activity. Such skills will be important to be spent in many different situations and institutions, in particular public research institutions (like Universities and Research Institutes) or private companies. In this respect Ph.D students will be trained with a continuous and intense experimental research activity as well as specific high level courses, in order to be competitive at the international level. The future PhD will be trained with all experimental and theoretical tools necessary to manage general problems which will be encountered when developing new chemical compounds or processes, as well as their industrial implications. Special care will be devoted to the international mobility opportunities and to the ability to present and rationalize the results in an effective manner.</p>
<b>Job placement opportunities</b>	<p>The job placement opportunities of a future PhD will be rather wide. First the most adequate job opportunity would be that of a researcher in public institutions or private companies. In particular the PhD title would be important when special need to manage and carry on research or complex problems solving are necessary to be performed in an independent, autonomous and creative way. Also special responsibility positions in industries or large companies would be suitable for PhD.</p>
<b>Main cooperating international Universities and Research Institutions</b>	<ol style="list-style-type: none"><li>1 University of Castilla La Mancha, Spain</li><li>2 University of Sidney, Australia</li><li>3 University of Bordeaux, France</li><li>4 University of Madrid, Spain</li><li>5 University of Zürich, Switzerland</li></ol>