



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

Rettorato e Direzione Generale
Sezione Ricerca e Dottorati
Ripartizione Dottorati

ATTACHMENT 3

LAST REVISED 12/06/2015

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

IN BRIEF

- 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

Lines of research

Administrative location

University of Trieste

Organizing Department

Department of Chemical and Pharmaceutical Sciences

Participating Departments

Department of Engineering and Architecture

Department of Life Sciences

Partner University

University of Ca' Foscari Venezia

Partner University Department

Department of Molecular Sciences and Nanosystems

Duration	3 years	
Maximum number of months to be spent abroad by all PhD students	3	
Official language	Italian	
Language (alternative to Italian) partially used in PhD activities	Some seminars and courses are held in English. If non Italian speaking students are admitted to the PhD, all courses are may be held in English.	
Subject Areas	<i>main area</i>	03 CHEMISTRY
	<i>other areas</i>	05 BIOLOGY
		09 INDUSTRIAL AND INFORMATION ENGINEERING
Macro Research Fields	<i>main field</i>	03/A ANALYTICAL AND PHYSICAL CHEMISTRY
	<i>other fields</i>	03/B INORGANIC CHEMISTRY AND APPLIED TECHNOLOGIES
		03/C ORGANIC, INDUSTRIAL AND APPLIED CHEMISTRY
		03/D MEDICINAL AND FOOD CHEMISTRY AND APPLIED TECHNOLOGIES
		05/G EXPERIMENTAL AND CLINICAL PHARMACOLOGY
		09/D CHEMICAL AND MATERIALS ENGINEERING
Scientific Disciplinary Sector		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/12 ENVIRONMENTAL CHEMISTRY AND CHEMISTRY FOR CULTURAL HERITAGE
		BIO/15 PHARMACEUTIC BIOLOGY
		ING-IND/24 PRINCIPLES OF CHEMICAL ENGINEERING
Domain European Research Council	PE	PHYSICAL SCIENCES AND ENGINEERING
ERC Panels	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
Erasmus Subject Area Codes	06.3	CHEMICAL ENGINEERING
	13.1	BIOLOGY
	13.3	CHEMISTRY

WHO'S WHO

under the agreement with the University Ca' Foscari Venezia

Chair	Prof Mauro Stener – Department of Chemical and Pharmaceutical Sciences - Università degli Studi di Trieste – Via L. Giorgeri, 1 - tel. 040/558.3949; fax 040/558.3903; e-mail stener@units.it
Vice	Prof. Maurizio Selva – Department of Molecular Sciences and Nanosystems - Università Ca' Foscari Venezia - tel. 041/234.8687; tel. Lab. 041/234.8982; email selva@unive.it
Web site	http://web.units.it/dottorato/chimica/en
Email	dottorato.chimica@units.it
Learning outcomes	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.
Job placement opportunities	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.
Main cooperating international Universities and Research Institutions	<ol style="list-style-type: none">1 University of Castilla La Mancha, Spagna2 University of Sidney, Australia3 University of Bordeaux, Francia4 University of Madrid, Spagna5 University of Zürich, Svizzera