

CHEMICAL SCIENCES		
Cycle	XXX	
Duration	3 years	
Supervisor	Prof. Roberto Cammi – Department of Chemistry E-mail: roberto.cammi@unipr.it	
Research Topics	<ul style="list-style-type: none"> • Innovative syntheses for environment protection. • Organic-inorganic hybrid nanosystems for biomedical applications. • Molecular materials for electronics and photonics • Synthesis of porous systems for the inclusion of molecules and ions. • Innovative analytical methods for food safety 	
Training objectives	The training program aims to provide to the PhD. in Chemical Sciences the skills necessary for managing advanced research projects in the fields of analytical chemistry, general and inorganic chemistry, physical chemistry, industrial chemistry, and organic chemistry. The Doctorate of Chemical Sciences requires each student to operate within one of the research groups at the Department of Chemistry, and to follow a specific training program within the chosen sector, also through participation to research activities in other qualified centers in Italy and abroad, attendance of national and international schools and conferences, and through the publication of the scientific results achieved on international journals. There will also be interdisciplinary educational activities aimed to develop the ability of PhD students to explain, discuss, disclose the subject of their work both in academic and industrial environments and also more generally in society.	
Academic degree required	"Laurea Magistrale" belonging to Classes LM-6, LM-7, LM-8, LM-9, LM-11, LM-13, LM-17, LM-22, LM-53, LM-54, LM-70, LM-71, LMR/02 or "Laurea Specialistica" belonging to Classes 6/S, 7/S, 8/S, 9/S, 12/S, 14/S, 20/S, 27/S, 61/S, 62/S, 78/S, 81/S, as well as the equivalent "laurea specialistica" or "laurea" achieved based on the university system in force before the entry into force of Italian Ministerial Decree No. 509/99, or equivalent academic degree achieved abroad.	
Positions put out to competition		
With scholarship	6	
TOTAL	6	
Scholarship types	No.	Description (funding entity and research topic, if any)
	3	Scholarships of the University of Parma
	1	MIUR Scholarship "Fondo Giovani" on the topic "Revival of the Pharmaceutical Industry also through fine chemistry of natural compounds for new diagnostic applications and new active ingredients"
	1	Funded by the Department of Chemistry
	1	Co-funded by Fondazione Cariparma

Admission procedures	Assessment of QUALIFICATIONS: up to 40 points ORAL EXAM: up to 80 points Minimum score for ELIGIBILITY: 70/120		
Interview via teleconference for candidates residing abroad	<p style="text-align: center;">THE ORAL EXAM MAY BE HELD VIA VIDEOCONFERENCE FOR CANDIDATES RESIDING ABROAD. (the relevant request shall be submitted using the form attached to the competitive examination announcement)</p>		
List of QUALIFICATIONS to be submitted and their assessment	Graduation thesis	Relevance of the graduation thesis - or of the Abstract of the graduation thesis for graduand candidates - to the research topics of the Doctorate Program (mandatory qualification)	Up to 15 points
	Curriculum Vitae et studiorum	Covering the candidate's university career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams sat and passed, with the relevant marks, as well as the final graduation mark (mandatory qualification)	Up to 15 points
	Scientific publications	Articles published in scientific journals with referee, Papers presented at conventions or meetings	Up to 5 points
	Other securities	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the doctorate program and at describing his/her specific research interests	Up to 5 points
Foreign language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH		
Schedule of the admission exam	ORAL EXAM DATE: 24 September 2014 TIME: 9:30am PLACE: "Sala Ferrari" of the Department of Chemistry Parco Area delle Scienze, 17/A – 43124 PARMA, ITALY		
Oral Exam topics	The Oral Exam will be held in Italian or in English for foreign candidates. It will consist in a discussion on the qualifications submitted by the candidate, as well as in the assessment of his/her scientific background and research designing skills. The candidate's fluency in English will be assessed in terms of comprehension of scientific texts.		