MEDICAL SCIENCES					
Cycle	xxxı				
Duration	3 years				
Supervisor	Prof. Antonio Mutti – Department of Clinical and Experimental Medicin E-mail: antonio.mutti@unipr.it				
Research Topics	<ol> <li>Translational research in the induction of specific tolerance to organ transplants and bone marrow</li> <li>Innovative strategies for hematopoietic stem cell transplantation from haploidentical donors</li> <li>Pathophysiology of multiple myeloma and study of the molecular mechanism of action of new anti myeloma agents</li> <li>Development of non-invasive methods for the early diagnosis of chronic degenerative diseases and cancer</li> <li>Immunological markers of tumor progression</li> <li>Optimization of new anticancer therapeutic strategies through preclinical studies.</li> <li>Morphology and function in pulmonary disease and implications for clinical management and pharmacological approach</li> <li>Epidemiological research in the geriatric field</li> <li>Pathophysiology of renal failure</li> <li>Genetic and environmental aspects in vasculitis</li> <li>Secondary hyperparathyroidism and vitamin D: risk of cardiovascular disease in patients with chronic renal failure at various stages of severity</li> <li>Molecular identification of collagens and inflammatory factors conditioning the progression of renal glomerular disease towards renal sclerosis</li> <li>Studies of clinical and genetic factors associated with the phenotype of renal calculi and studies on primary and secondary prevention</li> <li>Studies in vitro, in vivo on the immune system in aging</li> <li>In vitro and in vivo studies on diagnostic and clinical aspects of metabolic bone diseases.</li> <li>Identification of risk factors in the workplace, particularly with regard to exposure to carcinogenic agents</li> <li>Primary health care: organization of local services - the impact of health houses.</li> <li>Epidemiological and environmental studies on the health impact of incinerators.</li> <li>Common endotypes and phenotypes in allergic multimorbidity.</li> <li>Genetics and pathophysiology of diabetes mellitus</li> <li>Novel technologies in the treatment of diab</li></ol>				

Training objectives	The Doctoral Program in Medical Sciences aims to develop skills and expertise to facilitate the integration between clinical and epidemiological studies and experimental research in the laboratory. The close link with the clinic allows doctoral students to tackle real problems, ranging from diagnosis to treatment and from prevention to rehabilitation, concerning human disease and care for the sick. The connection between laboratory research and clinical research will allow for a quick transfer to the medical practice of discoveries and methods acquired through experimental studies. The objectives of the PhD include the commitment to bedside clinical or epidemiological studies of populations at-risk, searching the pathophysiological bases of clinical conditions, through the systematic verification of the hypothesis of cellular systems. The rapid interchange between application contexts (clinical and laboratory) in its bi-directionality (the laboratory will report the results of clinical and epidemiological research) will at the same time anchor the experimental research on issues that arise from clinical settings and verify hypotheses arising from laboratory research in humans. In addition to a core group of teachers / researchers involved in MED/09 and MED/44, the School Committee can count on a wide range of scientific sectors belonging to the Area 06.						
Academic degree required	Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent						
Positions put out to competition							
With scholarship	With scholarship 8						
Without scholarship		2					
TOTAL		10					
	No.	Description (funding entity and research topic, if any)					
	3	Scholarships of the University of Parma					
Scholarship types	2	Funded by the NHS Local Agency of Parma on the following research topics:  1) Primary health care: the organization of local services - the impact of health houses;  2) Evaluation of impact on health: epidemiological analyzes and environmental implications of incinerators					
	1	Funded by Istituto Ospitalieri of Cremona on the research topic "Development of non-invasive methods for early detection of chronic degenerative diseases and cancer"					
	1	Funded by Department of Clinical and Experimental Medicine					
	1	Co-funded by Fondazione Cariparma					
Admission procedures	Assessment of QUALIFICATIONS: up to 30 points WRITTEN EXAM: up to 60 points ORAL EXAM: up to 30 points Minimum score for ELIGIBILITY: 70/120						
	winimum	Score for	LLIGIBILIT 1. 70/120				

	Curriculum Vitae et studiorum and other qualifications	Covering the candidate's university career, as well as postgraduate experience, scholarships and prizes, 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 20 points			
	Scientific publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	Up to 5 points			
Foreign language	Language the fluency of which shall be assessed during the Oral Exam: <b>ENGLISH</b> .  The assessment will consist in reading and translating a short scientific report.					
Schedule of the admission exams	WRITTEN EXAM DATE: 16 September 2015 TIME:10:00am PLACE: Department of Clinical and Experimental Medicine Via A. Gramsci, 14 – 43126 PARMA, ITALY  ORAL EXAM DATE: 16 September 2015 TIME: 4:00pm PLACE: Department of Clinical and Experimental Medicine Via A. Gramsci, 14 – 43126 PARMA, ITALY					
Written Exam topics	The Written Exam will focus on a research project on which to develop the PhD, including the abstract in English.					
Oral Exam topics	The Oral Exam will focus on the research project submitted durign the written examination.					