

MEDICAL SCIENCES	
Cycle	XXX
Duration	3 years
Supervisor	Prof. Antonio Mutti – Department of Clinical and Experimental Medicine E-mail: antonio.mutti@unipr.it
Research Topics	<ol style="list-style-type: none"> 1. Translational research in the induction of specific tolerance to organ transplants and bone marrow 2. Development of non-invasive methods for the early diagnosis of chronic degenerative diseases and cancer 3. Morphology-function in pulmonary disease and implications for clinical management and pharmacological approach 4. Pathophysiology of multiple myeloma and study of the molecular mechanism of action of new anti myeloma agents 5. Studies on a new class of hypoglycemic drugs with presumed anti-inflammatory properties 6. Preclinical oncology research on new therapeutic strategies for lung cancer and breast 7. Translational research on stem cells in the pathogenesis and therapy of tissue damage and haemato-oncological cancer 8. Epidemiological research in the geriatric field, particularly in the elderly endocrine system (InCHIANTI study) 9. Identification of new potential markers and cut-off of hormonal and neurogenic sarcopenia (study ULSAM) 10. Pathophysiology of renal failure 11. Genetic and environmental aspects in vasculitis 12. Secondary hyperparathyroidism and vitamin D: risk of cardiovascular disease in patients with chronic renal failure at various stages of severity 13. Molecular identification of collagens and inflammatory factors conditioning the progression of renal glomerular disease to renal sclerosis 14. Studies of clinical and genetic factors that are associated with the phenotype of renal calculi and studies on primary and secondary prevention 15. Studies in vitro, in vivo on the immune system in aging 16. Studies in vitro and in vivo on osteometabolic pathology 17. Identification of risk factors in the workplace, particularly with regard to exposure to carcinogens 18. Cardiovascular prevention 19. Organization of integrated health systems
Training objectives	<p>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</p>

	<p>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.</p>		
Academic degree required	<p>Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent</p>		
Positions put out to competition			
With scholarship	8		
Without scholarship	2		
Reserved to Research Fellowship arrangements	1		
TOTAL	11		
Scholarship types	No.	Description (funding entity and research topic, if any)	
	3	Scholarships of the University of Parma	
	3	Funded by the NHS Local Agency of Parma	
	1	Funded by Azienda Ospedaliera S. Maria Nuova/IRCCS of Reggio Emilia	
	1	Co-funded by Fondazione Cariparma	
Positions reserved to Research Fellowship arrangements	No.		
	1	Research Fellowship arrangements	
Admission procedures	<p>Assessment of QUALIFICATIONS: up to 30 points WRITTEN EXAM: up to 60 points ORAL EXAM: up to 30 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>		
List of QUALIFICATIONS to be submitted and their assessment	Graduation thesis	Abstract of the graduation thesis (mandatory qualification)	Up to 5 points
	Curriculum Vitae et studiorum	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	Including abstracts and/or papers presented at conventions or meetings	Up to 5 points
Foreign language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH</p>		

**Schedule of the
admission exams**

ORAL EXAM DATE: 26 September 2014

TIME: 10:00am

PLACE: Department of Clinical and Experimental Medicine
Via A. Gramsci, 14 – 43126 PARMA, ITALY

ORAL EXAM DATE: 26 September 2014

TIME: 4:00pm

PLACE: Department of Clinical and Experimental Medicine
Via A. Gramsci, 14 – 43126 PARMA, ITALY