



TRANSLATIONAL MEDICAL AND SURGICAL SCIENCES	
Cycle	XXXIII
Duration	3 years
Coordinator	Prof. Riccardo BONADONNA – Department of Medicine and Surgery – E-mail: riccardo.bonadonna@unipr.it
Research Topics (the applicant MUST indicate one research topic)	<ol style="list-style-type: none">1. Stem cells in diagnosis and treatment of neoplasms, chronic and degenerative disorders, cardiovascular diseases and bone, joint and muscle diseases2. Translational medicine in the immune dysregulation of respiratory, digestive, skin, endocrine, and kidney diseases and of vasculitides3. Plasticity, function and theranostics of genomic, transcriptomic, proteomic and metabolomic platforms in cells, tissues and organs, for prevention or in presence of neoplasms, infections, chronic, dysmetabolic and degenerative diseases, of ob-gyn and neonatal diseases, or for study of the response to environmental and/or lifestyle factors and to pharmacologic agents4. Development and theranostics of technologically advanced imaging and phenotyping in prevention or in presence of neoplasms, infections, chronic, dysmetabolic and degenerative diseases, of ob-gyn and neonatal diseases, or for study of the response to environmental and/or lifestyle factors and to pharmacologic agents5. Development and application of technologically advanced devices and/or biological tools, to measure and/or to support and/or to replace the function of cells, tissues or organs in medical and/or surgical diseases6. Advanced and innovative strategies of functional recovery and rehabilitation in prevention or in presence of neoplasms, infections, chronic, dysmetabolic and degenerative diseases, of ob-gyn and neonatal diseases, or for study of the response to environmental and/or lifestyle factors and to pharmacologic agents7. Roles of governance and organization in health care organizations and systems in the prevention and care of socially and economically highly relevant disorders, including, but not limited to, environmental and professional diseases8. Role of microbiota and microbiome in translational medicine and surgery9. “Big data”: their extraction and their role in translational medicine and surgery10. Role of advanced technologies, including robotics, in translational surgery



<p>Training objectives</p>	<p>The PhD Program in Translational Medical and Surgical Sciences is a typical multidisciplinary PhD program, in which the common denominator among most diverse research pathways is the critical transition from bench to bedside, i.e. clinical application in real patients. This close link between bench research and clinical research will expedite the transferral of experimental discoveries and methods to clinical practice. The close contact with clinical activity will allow the PhD students to face also real problems in the clinical arena, ranging from diagnosis to treatment and from prevention to rehabilitation, all of which are deeply involved in human disease and in patient care.</p> <p>The fast, two-way exchange between clinics and lab will bring back to the lab the results of clinical and epidemiological observations, closely linking experimental research to questions and goals stemming directly from real world data and unmet needs of the patient.</p> <p>The final goal of the PhD Program in Translational Medical and Surgical Sciences, therefore, is to provide a highly qualifying PhD educational pathway, offering the students top notch opportunities, know-how and technological tools and enabling them to carry out cutting edge translational research in national or foreign, public or private Institutions, including, but not limited to, Universities, Research Centers and PharmaMed Industries.</p>	
<p>Academic degree required</p>	<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>	
<p>POSITIONS PUT OUT TO COMPETITION</p>		
<p>With Scholarship</p>	<p>7</p>	
<p>Without Scholarship</p>	<p>1</p>	
<p>TOTAL</p>		<p>8</p>
<p>KIND OF SCHOLARSHIP</p>		
<p>N°</p>	<p>Funding entity</p>	<p>Research Topic, if any</p>
<p>4</p>	<p>Scholarship Ministerial funds</p>	<p>--</p>
<p>1</p>	<p>Funded by Department of Medicine and Surgery</p>	<ul style="list-style-type: none"> • Technological and experimental applications in plastic surgery
<p>1</p>	<p>Funded by Department of Medicine and Surgery with co-financing by LILT – Lega Italiana Lotta ai Tumori Reggio Emilia</p>	<p>--</p>
<p>1</p>	<p>Co-funded by Fondazione Cariparma</p>	<ul style="list-style-type: none"> • Innovative immune and metabolic therapies for chronic HBV infection



ADMISSION PROCEDURES		
<p>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</p>		
Foreign Language	<p>Language the fluency of which will be assessed during the Written Exam or Oral Exam: ENGLISH. The evaluation of the knowledge of this language will be written/oral and will consist in reading and translating a scientific text.</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 and other qualifications	Including academic career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark (mandatory qualification)	Up to 7 points
Research Project	<p>The research project should consist of a maximum of 3 pages, should be written in Italian or in English, should focus on an original research topic and it should be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation.</p> <p><u>It does not represent a constraint with respect to the subsequent choice of the doctoral thesis</u></p>	Up to 8 points
Scientific publications	Articles in national and international journals, papers presented at conferences or symposia, book chapters etc.	Up to 5 points
Reference Letters	Written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities	Up to 3 points
Other qualifications	Awarding of Scholarships, prizes, trainings, etc.	Up to 2 points
SCHEDULE OF THE ADMISSION EXAMS		
WRITTEN EXAM	<p>WRITTEN EXAM DATE: 18 September 2017 TIME: 09:00am PLACE: Department of Medicine and Surgery – Hall 26 Via A. Gramsci, 14 – Internal Medicine CLASSROOM 43126 PARMA</p>	



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ORAL EXAM	ORAL EXAM DATE: 18 September 2017 TIME: 04:00pm PLACE: Department of Medicine and Surgery – Building 26 Via A. Gramsci, 14 – Internal Medicine CLASSROOM 43126 PARMA - ITALY
Written Exam topics	The Written Exam will focus on a research project compatible with this PhD Program; it must include an English abstract.
Oral Exam topics	The Oral Exam will focus on the Research Project presented the written examination.