



UNIVERSITÀ
DEGLI STUDI
FIRENZE

DOCTORAL PROGRAMME IN CLINICAL SCIENCES

Coordinator prof. Marco Matucci Cerinic

BIOMEDICAL AREA	
ADMINISTRATIVE OFFICE	Department of Experimental and Clinical Medicine
CURRICULA	<ol style="list-style-type: none">1. Clinical Pathophysiology and of Aging and Nursing Sciences2. Clinical and Experimental Medicine and Radiology3. Pathology and Clinic of the Locomotor Apparatus and the Calcified Tissues4. Anaesthetic and Surgical Sciences5. Psychology and Pain Management6. Global Health and International Cooperation on Mobile Populations
POSITIONS AVAILABLE: 14 Positions with scholarship: 11 Positions without scholarship: 3* <i>* standard ranking only</i>	
Ranking List for STANDARD POSITIONS - scholarships available: 10	<p>6 – University of Florence</p> <p>3 – Department of Experimental and Clinical Medicine – Progetto Ministeriale “Dipartimenti di Eccellenza 2018–2022” with the following thematics:</p> <ol style="list-style-type: none">1. "Epidemiology and clinical features of the emergent and re-emergent infections in resident or migrant latino-american population"2. "Diagnostic approach to emergent and re-emergent infections in resident or migrant latino-american population"3. "Masté project: from the epidemiological investigation on the prevalence of the two major hepatic viruses, HBV e HCV, in migrants of the florentine area, to the inclusion of infected patients in accessible and fair therapeutic pathways" <p>1 – Tuscan Transplantation Organisation (OTT) – Careggi Hospital</p>
Ranking List for POSITIONS WITH SPECIFIC RESEARCH TOPICS - scholarship available: 1	University of Florence – Fondo Pluriennale Piano Strategico 2018 "Paleopathology: Characterisation of the human paleomicrobiome and the immune response through the development of silico interaction models"
RESERVED POSITIONS	NO
STUDY/RESEARCH PERIODS ABROAD	Not required
DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION	<p>MANDATORY DOCUMENTS</p> <ul style="list-style-type: none">• Copy of the Identification Document• Replacement Declaration Form• Curriculum vitae et studiorum• Research project <p>OPTIONAL DOCUMENTS</p> <ul style="list-style-type: none">• Publications and any other qualification documents

	<ul style="list-style-type: none"> • List of taken exams with grades for the Master of Science (M.Sc.) degrees (or equivalent) • Title of the M.Sc. Thesis • Copy of the M.Sc. Thesis • Abstract of the M.Sc. Thesis 															
REFERENCE LETTERS	A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.															
RESEARCH PROJECT	<p>The project must be in english (maximum 12.000 characters with spaces included) with the following outline:</p> <ul style="list-style-type: none"> - summary - background - aims and objectives - methodology - expected results - references <p>The project needs to address one of the specific thematic of the Ph.D. programme. At evaluation the following elements will be considered: quality, presentation, innovation, internationalisation.</p>															
MODALITY OF EVALUATION	<ul style="list-style-type: none"> • Evaluation of curriculum vitae, research project, publications and other qualification documents • Interview as detailed in the section below “Evaluation Marks” 															
OTHER LANGUAGE FOR THE EXAMINATION	English															
SKYPE INTERVIEW	NO															
EVALUATION MARKS	<table border="1"> <thead> <tr> <th>parameter</th> <th>minimum score</th> <th>maximum score</th> </tr> </thead> <tbody> <tr> <td>curriculum vitae, publications and other qualification documents, research project</td> <td>30/100</td> <td>50/100</td> </tr> <tr> <td colspan="3">Applicants who obtain a score of at least 30/100 in the evaluation of the above parameters will be admitted to the interview</td> </tr> <tr> <td>Interview: discussion of the research project</td> <td>30/100</td> <td>50/100</td> </tr> <tr> <td colspan="3">Eligibility is achieved with a minimum score of 60/100</td> </tr> </tbody> </table>	parameter	minimum score	maximum score	curriculum vitae, publications and other qualification documents, research project	30/100	50/100	Applicants who obtain a score of at least 30/100 in the evaluation of the above parameters will be admitted to the interview			Interview: discussion of the research project	30/100	50/100	Eligibility is achieved with a minimum score of 60/100		
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THEMATICS	<p>Curriculum in Clinical physiopathology, aging and nursing sciences</p> <p><u>Nursing area</u></p> <ol style="list-style-type: none"> 1. Organ donation in nursing sciences 2. Clinical risk in nursing sciences 3. Nursing Management of signs and symptoms <p><u>Medical Area</u></p> <ol style="list-style-type: none"> 1. Pathogenetic and Therapeutic Mechanisms of immunovascular diseases 2. Physiopathology of atherosclerosis 3. Mechanisms of action, efficacy and safety of antithrombotic therapy 4. Physiopathology of acute coronary syndromes 5. Atherogenic dyslipidemias: from the genetic diagnosis to the treatment 6. Venous thromboembolic disease: new pathogenetic mechanisms 															

7. Aging and age correlated disease biomolecular mechanisms
8. Physiopathology and clinical epidemiology of age correlated fragility and disability
9. Aging of cardiovascular system and age correlated myocardiopathies
10. Physiopathology and clinical epidemiology of the cognitive decline in the elderly
11. The management of major traumas in Italy and Europe
12. Development of new methodologies of advanced simulation for the implementation of the trauma team efficiency

Curriculum in Clinical and Experimental Medicine and Radiology:

1. The biological bases (cellular, molecular, genetic, metabolic, microbiologic, hormonal) of immune dysregulated diseases (chronic inflammatory diseases, immunodeficiencies, cancer, chronic autoimmunity)
2. Biomarkers phenotypization, gender and precision therapies in immunodysregulated diseases
3. The role of the new MRI (Diffusion, Perfusion, Spectroscopy) and CT parameters (Perfusion with techniques of reduction of the dose in MultiSlice-CT and ConeBeam-CT) in the pre and post therapy evaluation of the different anatomic areas (neuro and head, heart and chest, abdomen and pelvis)
4. New Imaging techniques in the evaluation of skin, lung, and microcirculation of fibrosing autoimmune diseases
5. Study of genetic bases and clinical/laboratory stratification of common variable immunodeficiency as prototype of immunodysregulation diseases, infections, autoimmunity and tumors
6. Predisposing factors, physiopathology, organ involvement and therapeutic approaches to autoimmunity
7. Predisposing factors, physiopathology, and innovative therapeutic approaches in Allergic diseases
8. Predisposing factors, physiopathology, and innovative therapeutic approaches in fibrosing autoimmune diseases
9. Study of the correlation between the immune system and the microbiota in the genesis of chronic inflammatory diseases and neoplasias
10. Study of the intratumoral and peripheral immune response in solid tumors
11. Translational aspects of chronic hepatopathies and primitive tumors of the liver
12. Cancer immunotherapy: strategies of implementation and personalisation of the treatment
13. Oncogenesis and biomarkers of neoplastic evolution secondary to hepatic viruses
14. Cryoglobulinemic syndromes and lymphoproliferative disorders in hepatic viruses infections
15. Immunotherapy in autoimmunity and rare immunomediated diseases
16. New classification and organ involvement in rheumatic diseases

Curriculum in Clinical Pathology, in Musculoskeletal diseases and calcified tissues

1. Innovative surgical methodologies of prosthetic surgery
2. Biomaterials for orthopedic surgery
3. Analysis and evaluation of prostheses interaction
4. Mineral and bone metabolism in clinical models of the diseases of the calcified tissues

	<p>Curriculum in Anesthesiology and Surgery</p> <p><u>Surgical area</u></p> <ol style="list-style-type: none"> 1. New miniinvasive technology in general, urologic and e vascular surgery 2. Molecoular precision medicine in gastrointestinal oncology 3. Guided surgery guided by the virtual reality in 3D- D 4. New technologie in the miniinvasive and conservative surgery in Crohn disease 5. Optimization of the surgical procedure in the pre–, intra– e postsurgical phase in IBD 6. Role of simulation in the learning of new surgical techniques 7. The development of renal trapiantology: from immunotherapy to surgery 8. Techonolical innovations in the surgical treatment of benign prostate hypertrophy 9. Gender dysphoria: from psychological to surgery problems <p><u>Anesthesiology Area</u></p> <ol style="list-style-type: none"> 1. Advantges and limits of the use of long term central venous catheterism 2. The pathways of perioperative medicine 3. Periooperative acute renal damage perioperatorio in high complexity interventions <p>Curriculum in Psychology and Pain Therapy</p> <ol style="list-style-type: none"> 1. The role of neuronal and non–neuronal TRP channels in inflammatory neuropatic and oncologic pain 2. Molecular bases of the GGRP dependent mechanism in the genesis of pain in headache 3. Psichological and Psichosocial mechanisms implicated in the onset and maintenance of pain and disease 4. Research methods in clinical and health psychology 5. Psychological interventions in chronic and non-chronic pain disturbances <p>Curriculum in global health and International cooperation on mobile populations</p> <ol style="list-style-type: none"> 1. Epidemiology and clinics of emergent/reemergent infections in countries with a medium low income and in mobile/migrant populations 2. Diagnostic approach emergent/reemergent infections in countries with a medium low income and in mobile/migrant populations 3. Parassitoses and allergic diseases in countries in development and in mobil epopulations 4. Tuberculosis and host response in countries with a medium low income and in mobile/migrant populations 5. Allergic diseases in mobile populations
<p>Further information available at the following web page: https://www.dmsc.unifi.it/vp-319-nuova-pagina-dottorato.html</p>	

EXAMINATION SCHEDULE			
	DATE	TIME	PLACE
INTERVIEW	18 September 2018	8:30 a.m.	CUBO Viale Pieraccini, 6 – Florence “Aula Piccola”
<p>The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p11361.html</p>			