



Università degli Studi di Cagliari



PhD Course in MOLECULAR AND TRANSLATIONAL MEDICINE

Track 1: Molecular Oncology and Pathology

Track 2: Nutritional and Metabolic Sciences

DISCIPLINARY SCIENTIFIC AREA	06 - MEDICAL SCIENCES; 05 - BIOLOGICAL SCIENCES; 03 - CHEMICAL SCIENCES
PHD COURSE DIRECTOR	PROF. AMEDEO COLUMBANO
HEAD OFFICE	DEPARTMENT OF BIOMEDICAL SCIENCES
COURSE DURATION	3 YEARS
EDUCATIONAL OBJECTIVES AND RESEARCH TOPICS	The three-year program in Molecular and Translational Medicine at UniCA offers an interdisciplinary training of study and research that provides students with the knowledge and research skills required for a successful research career in biomedical sciences. The Program has two research tracks, molecular oncology and pathology, and nutritional and metabolic sciences, which together encompass interdisciplinary research and graduate training program suited for training young scientists for future appointments in academic institutions, research centers, or the biotech industry. The faculty comprises over 40 high rank Italian and international scientists, whose scientific interests cover a wide range of biomedical topics highly relevant to human health. PhD students in the molecular oncology and pathology track investigate genetic/epigenetic alterations and molecular epidemiology of solid and hematologic cancers, cancer biomarkers of diagnostic and prognostic value, genes involved in the pathogenesis of rare genetic diseases, molecular mechanisms of neurodegeneration, molecular pathogenesis of infectious diseases and interactions of pathogens with the host. PhD students in the nutritional and metabolic sciences track investigate molecular mechanisms of neuronal and endocrine systems, consequences of deficiencies of specific nutrients or supplements on the functionality of peripheral systems and CNS, impact of dietary habits and of physical activity in terms of neoplastic diseases and neurological, endocrine, gastroenterological, gynecological and cardiological disorders.
ELIGIBILITY REQUIREMENTS FOR FOREIGN APPLICANTS	Academic qualification issued by a foreign university, comparable in duration and content to the Italian titles requested and providing access to PhD courses in the country of achievement, recognized as equivalent (degree in Medicine, Biology, Pharmacy, Biotechnology; Pharmaceutical Chemistry, Human nutrition)
ADMISSION TESTS	ASSESSMENT OF QUALIFICATIONS, CURRICULUM VITAE, WRITTEN TEST AND INTERVIEW. The written exam and the interview could be conducted in english.
ADMISSION TESTS FOR FOREIGN APPLICANTS FOR RESERVED POSITIONS WITH SCHOLARSHIP	EVALUATION OF THE CURRICULUM VITAE, REFERENCE LETTERS AND INTERVIEW. The interview can be conducted by teleconference (skype) with audio and video modality that allows the verification of the identity of the candidate. The curriculum vitae and letters of reference should be written in English. The assessment of the language skill of the candidate will be performed by a short discussion in English
POSITIONS	9
SCHOLARSHIPS	6 P.O.R. SARDEGNA F.S.E. 2014 - 2020 (SPECIALIZATION AREAS D.G.R. N. 43/12 DEL 01.09.2015: 5. BIOMEDICINA; 3. AGRIFOOD); 1 UNIVERSITY OF CAGLIARI RESERVED FOR FOREIGN CANDIDATES
POSITIONS WITHOUT	2



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SCHOLARSHIP	
REFERENCE PERSON	PROF. AMEDEO COLUMBANO – COORDINATOR OF THE PhD PROGRAMME: EMAIL: columbano@unica.it - TEL. +390706758345 - +390706758346; PROF. ANDREA RINALDI – VICE-COORDINATOR - EMAIL: rinaldi@unica.it - TEL. +390706754521 FAX: 0706754527
WEB SITE	http://people.unica.it/molecularmedicine/