

**University
of Minho**

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School of Medicine Post-Graduation



University of Minho
School of Medicine

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Medicine
Post-Graduation

Mission

0.

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Medicine
Post-Graduation

The School of Medicine

1.



School of Medicine



The School of Medicine is an organic unit of the University of Minho, created to ensure graduate education in Medicine and postgraduate education, research and other specialized services in Medicine and in Health Sciences. To fulfill its mission, the School of Medicine has a highly motivated and qualified teaching staff, composed not only by doctors but also by

other professionals from several medical and biomedical areas. These are researchers at the Life and Health Sciences Research Institute (ICVS), which is part of the School. The School has the collaboration of doctors from healthcare units within the region who guide students throughout their clinical training, which constitutes a personalized education. It is part of the mis-

sion of the School of Medicine, in its interaction with the society and in line with a major recommendation of the World Health Organization, to contribute to the global awareness that health is a value to preserve, namely through the engagement of individuals in a process of mobilization for the maintenance of health.

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Life and Health Sciences Research Institute

www.icvs.uminho.pt

2.



Life and Health Sciences Research Institute



The ICVS was founded in 2003 and is a research unit within the School of Medicine at the University of Minho. Its mission is to improve the human health through scientific research, medical innovation and the delivery of specialized services. ICVS is organized in three interdisciplinary research domains (Surgical Sciences, Microbiology and Infection and Neurosciences) and two pilot research lines (Health Sciences Education and Public Health). The 250 researchers of the ICVS publish over 150 papers yearly in recognized international journals. In 2011 the ICVS established a strategic partnership with 3B's research group (Biomaterials, Biodegradables and Biomimetics), creat-

ing the ICVS/3B's Associate Laboratory. Its goal is to develop new technologies, therapies and medical products to the immunization, diagnosis, regenerative medicine, minimally invasive procedures, personalized treatments and nanomedicine, in collaboration with companies and other research partners. The knowledge generated within ICVS has been translated in the creation of companies such as BnML, Enlightenment, iCognitus and iSurgical3D, which provide products and services to both national and international markets. In 2012, the ICVS and the School of Medicine established a partnership with José de Mello Saúde and Eurotrials and created the Clinical Academic Centre

(2CA-Braga), a non-profit organization at Hospital de Braga. The 2CA-Braga offers a complete selection of services within clinical research, with a wide infrastructure and total technical support for research projects, clinical trials and validation studies of medical devices. Through these partnerships, the ICVS and the School of Medicine promote the development of transversal studies in medicine and health sciences, starting with the most fundamental research from the bench, to trials in animal models for pre-clinical validation and finishing in the clinical trial stage which allows for innovative therapeutic solutions.

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Post-Graduate Programs

3.



Master and PhDs

The Master in Health Sciences and the PhD Programs in Health Sciences (PhDCS) and in Medicine offer a flexible curricular structure that allows students to fit their interests and professional future. Students may select optional units from the offer of Advanced Courses within the School/ICVS or from other national or international institutions. During the dissertation/thesis, students may develop basic, translational and/or clinical biomedical research.

www.med.uminho.pt/en/Post-Graduation

Master in Health Sciences

The Master in Health Sciences aims at providing advanced training in biomedical sciences. The first year (60 ECTS) is dedicated to learning the fundamentals in several biomedical scientific areas and to developing lab and research skills. The second year is devoted to the thesis project that is developed at the ICVS. Graduates should have developed research skills and competences to integrate projects at public or private higher education institutions, research and technological development centre or in the pharmaceutical/biomedical industry.

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PhD in Health Sciences

4.



PhD in Health Sciences

The goal of the PhD in Health Sciences is to train PhD candidates in developing basic, translational and/or clinical biomedical research, in academia, industry or in healthcare institutions. It is targeted at Master holders in several areas of sciences, biomedicine, bioengineering and health technologies. Students are recipients of PhD scholarships obtained in the national call from the Portuguese Science Foundation (FCT), from international organizations, or from specific calls of which to hi-



ghlight the PhD in Applied Health Sciences (where the PhD projects are developed with the following partners: BIAL; BNML; ENLIGHTNMENT; EURO-TRIALS; iCognitus4ALL–IT Solutions; iSurgical3D; José de Mello Saúde; Stemmmatters–Biotecnologia e Medicina Regenerativa; Têxtil Manuel Gonçalves) and PhD in Advanced Therapies for Health (in partnership with the 3B's research group <http://path.3bs.uminho.pt>).

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PhD in Medicine

5.



PhD in Medicine



The PhD in Medicine is targeted at doctors (both interns and specialists). Its goal is to provide research skills in health sciences and medicine for the development of independent biomedical research (basic, translational or clinical) in academia, industry or in healthcare institutions. The PhD in Medicine has a

specific study plan (MD/PhD) targeted at medical students from the School of Medicine at the University of Minho. In this study plan, students interrupt the medical degree at the end of the 5th year to enrol in the PhD program, and conclude the medical training once the PhD is finished. The MD/PhD,

which is a pioneering program in Portugal and one of the few in Europe, is done in collaboration with Columbia University (New York City; <http://www.cumc.columbia.edu/mdphd>) and Thomas Jefferson University (Philadelphia; <http://www.cumc.columbia.edu/mdphd>).

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International Post-Graduate Program

6.



International Post-Graduate Program

The School of Medicine and the ICVS include in their mission the responsibility to contribute for advanced training in the areas of Medicine and Health Sciences. This is achieved through an international program of advanced courses which aims at giving information and pioneer training in the areas of medicine and biomedicine in the form of short courses and workshops. These focus on current topics, from basic sciences to the most up-to-date clinical applications/interventions. They are aimed at doctors and other health professionals, as well as at biomedical and medical researchers. These are very international courses, not only due to the lecturers but also to the participants (almost 1000 per year), and the evaluation has been remarkable. Some of these courses may be chosen as part of the Master and PhD programs. In addition, specific training activities are co-organized with Alumni Medicina (www.alumnimedicina.com), especially training for interns from several medical specialties.

Examples of Courses

Clinical Sciences

- FETAL NEUROSONOGRAPHY • BASIC LAPAROSCOPY FOR RESIDENTS • ADVANCED 3D-VIDEO-ASSISTED UROLOGICAL SURGERY
- SULCI, GYRI, VENTRICLES AND DISSECTING FIBERS • FETAL AND NEONATAL ENDOSCOPIC SURGERY • INOVATIONS IN MINIMALLY INVASIVE UROLOGIC SURGERY • MENTAL HEALTH • ETHICS IN MEDICAL PRACTICE • CLINICAL COMMUNICATION SKILLS • INANESTESIA
- INEUROLOGIA • INORTHOPEDICS • IPSIQUIATRIA

Biomedical Sciences

- A HANDS-ON APPROACH TO STEM CELLS AND TISSUE CULTURE
- BEING A RESEARCH INNOVATOR • PATHOGENESIS OF NEURODEGENERATIVE DISEASESCELL FUNCTIONAL AND PHENOTYPICAL ANALYSIS • FUNDAMENTALS IN IMMUNOLOGY AND INFECTION
- FUNDAMENTALS IN GENETICS, DEVELOPMENT AND NEOPLASIA

Statistics and Education

- BIOSTATISTICS IN HEALTH SCIENCES • METHODS FOR GROUPING VARIABLES WITH IBM SPSS STATISTICS • CURRENT DEVELOPMENTS IN EMPATHY TEACHING AND RESEARCH IN THE HEALTH PROFESSIONS • STANDARDIZED PATIENTS: FROM THEORY TO PRACTICE

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