

research and teaching institutions or commercial sectors (biotechnology companies, pharmaceutical and chemical industries, reference laboratories, the cosmetics or food industry).

## **FURTHER STUDIES**

Master degree programmes in various Lithuanian or foreign institutions that may be followed by PhD studies.





MORE INFORMATION AND ADMISSION INQUIRIES INTERNATIONAL RELATIONS AND STUDY CENTRE

Phone: +370 37 327 259 🕲 🕥 +370 659 07 224 www.lsmuni.lt/en/ apply.lsmuni.lt

**MEDICAL AND VETERINARY GENETICS** 

LITHUANIAN UNIVERSITY OF HEALTH SCIENCES

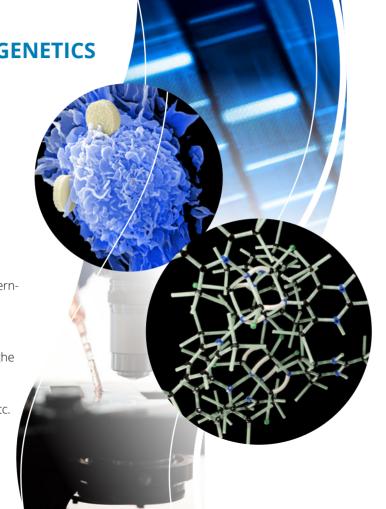
FACULTY OF **MEDICINE** 

MEDICAL AND VETERINARY GENETICS
BACHELOR DEGREE

Duration – 3.5 years Degree – Bachelor in Health Sciences Qualification – Biomedical Technician (track in Molecular Biology) 210 credits (ECTS)

## WHY STUDY MEDICAL AND VETERINARY GENETICS?

- Recognized diploma
- I Erasmus+ and other exchange programmes and internships abroad for a semester or a year
- I Small groups, up to 10 students
- Multicultural environment and student community: students from 76 different countries, nearly 20% of the total student body at LSMU
- Well-functioning student support programs: mentoring, tutoring and psychological counselling, etc.



## DISTINGUISHABLE FEATURES OF THE PROGRAMME

- Molecular Biology and Genetics TOP future profession all around the world:
- Unique possibility to develop competences for understanding of the disease pathogenesis through Molecular Biology related subjects;
- Career in proximity with geneticists and clinicians contributing to further development of genetic knowledge;
- Theory and practice in genetic testing in clinical practice, such as cytogenetics, molecular cytogenetics, molecular genetics and biochemical analysis;
- Modern technologies for genome, transcriptome or proteome analysis and bioinformatics data interpretation;
- Labster Training cutting-edge interactive lab simulations;
- Focus on practical activity and learning by doing. 8 weeks of obligatory practice and voluntary practice on-demand that can be initiated during the first year of study.
- Focus on training how to use information technology in genetic research;
- Close integration of theory and practice, additional experience in research execution, data analysis and interpretation.

## **ANALYTICAL SKILLS**

Graduates from Medical and Veterinary Genetics are trained or given at least basics skills in a number of analytical methods: DNA and RNA extraction, concentration and purity determination, PCR, electrophoresis, polymorphism analysis, bioinformatics data analysis, DNA methylation analysis, gene expression analysis, cytogenetic and molecular genetic analysis; basic cell culture techniques and methods; immunoassay methods. They know basic laboratory procedures for assurance of accuracy and precision of test results.

