LITHUANIAN UNIVERSITY OF HEALTH SCIENCES

International Summer School Practice

Comparative identification and morphometry of the intracardiac nervous system elements of sheep and rabbit in semi-thin sections

Aim of the internship: To acquire practical scientific research skills by analyzing the structure of the sheep and rabbit intracardiac nervous system and to perform a comparative morphometric analysis in semi-thin sections.

Internship Workflow:

Literature Review: To familiarize oneself with scientific literature addressing the peculiarities of the intracardiac nervous system, ongoing research, and applied methodological protocols.

Sample Preparation: Under the supervision of a responsible staff member, to master the research protocol and independently prepare semi-thin tissue sections for examination.

Microscopic Analysis: To acquire skills in light microscopy, learn to properly capture and document specimen images for subsequent computer-assisted analysis.

Morphometric and Comparative Analysis: To identify elements of the cardiac intracardiac nervous system using specialized computer software, perform measurements of the identified structures, and compare the obtained data between two different animal species. Additionally, to master basic principles of statistical data processing: calculate descriptive statistics (means, standard errors), test data distribution, and apply statistical tests to compare data between two different animal species.