

**LSMU LIST OF PHD RESEARCH TOPICS AND SUPERVISORS FOR THE FIELD OF BIOPHYSICS IN THE AREA OF NATURAL SCIENCES FOR THE YEAR 2026**

No.	Department	Research topic	Supervisor	Consultant
1	Institute of Cardiology Cell Culture Laboratory LSMU	Chromotripsis and Other Mechanisms Regulating Cell Division	Prof. Dr. R. Prekeris	Prof. Dr. V. A. Skeberdis
2	Institute of Cardiology Laboratory of Cell Communication LSMU	Mechanism of the Direct Effect of Calcium Ions on the Function of Channels Formed by Connexin36	Dr. T. Kraujalis	Dr. L. Kraujalienė

**VDU LIST OF PHD RESEARCH TOPICS AND SUPERVISORS FOR THE FIELD OF BIOPHYSICS IN THE AREA OF NATURAL SCIENCES FOR THE YEAR 2026**

No.	Department	Research topic	Supervisor	Consultant
1	Department of Biochemistry VDU	Development of deep learning algorithms to generate virtual images of fluorescent molecules inside cells	Dr. M. Maciulevičius	-
2	Department of Biochemistry VDU	Electrotransfer of CRISPR Cas system components for cell genetic modification and cell physiology studies after irreversible electroporation	Prof. Dr. S. Šatkauskas	-
3	Cell and Tissue Biotechnology Laboratory VDU	Study of the expression of annexin- related proteins after electroporation in search of new targets for increasing efficiency of electroporation-based anticancer treatments	Dr. B. Jakštys	Prof. Dr. S. Šatkauskas