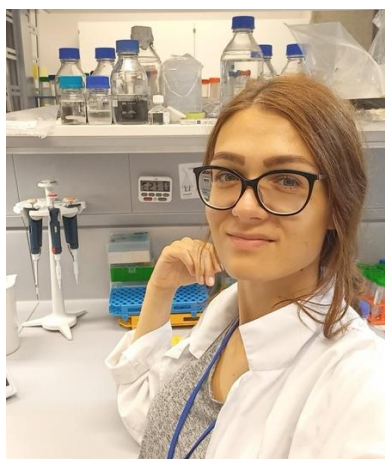


Liepa GASIULĖ, PhD

(the former name – Stasė GASIULĖ
(BUTKYTĖ))



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MAIN RESEARCH INTERESTS

Epigenetics, Molecular Biology,
DNA methyltransferases,
methionine adenosyltransferase,
click chemistry

Scientific Skills

- Primary, cancer cell, mouse embryonic cell line maintenance
- CRISPR/Cas 9 genome editing
- Transfection
- Electroporation
- Fluorescence microscopy
- Apoptosis and autophagy detection methods
- RNA, DNA, and protein isolation from cell lines, tumors, other tissues, and plasma
- RT-qPCR analysis
- Northern-blot analysis
- Western blot analysis
- Illumina sequencing
- Construction of plasmids
- Direct mutagenesis
- Protein purification
- SDS-PAGE analysis
- HPLC-MS analysis
- Click chemistry methods
- Methods for Investigation of methionine adenosyltransferase and methyltransferase activity

Education

2020 – Ph.D. in Biochemistry, Vilnius university

Dissertation thesis: “Functional analysis of canonical and mirtronic miRNAs in thoracic ascending aortic aneurysm tissues and digestive system tumors”

2012 – Master’s degree in Biochemistry, Vilnius university

Master thesis: “Photosensibilisation induced hallmarks of cornification, apoptosis, and autophagy in primary keratinocytes HEKa and epidermoid carcinoma A-431 cells”

2010 – Bachelor’s degree in Biochemistry, Vilnius university

Bachelor thesis: “The use of cationic polymers in protein transfection”

Scientific Work Experience

2020-present, Research Scientist

Life Sciences Center, Vilnius University, Institute of Biotechnology,
Department of Biological DNA modification

2012–2020, Junior Research Scientist

Life Sciences Center, Vilnius University, Institute of Biotechnology,
Department of Biological DNA modification

2012 Senior Specialist

National Cancer Institute

2011–2012 Senior Specialist

Life Sciences Center, Vilnius University, Institute of Biosciences, Department of Biochemistry and Molecular Biology

2008–2010 Technician

ThermoFisher Scientific Baltics

Teaching and other commitments

The commission member for evaluation of the student project defence

Medicine and Veterinary genetics studies, Lithuania University of Health Sciences

Supervision of Bachelor’s and Master’s degree research projects for students

Biochemistry studies, Vilnius University

Supervisor of Molecular Biotechnology laboratory course training

Vilnius University

Reviewer of bachelor’ and Master’s degree student research projects

Biochemistry and Molecular Biology's studies, Vilnius University

Participation in scientific dissemination

“Epigenetic mechanism of aortic wall remodeling” in the journal „Cardiology Practice“. Patamsytė V, **Butkytė S**, Stankevičius V, Žukovas G, Vilkaitis G, Lesauskaitė V

Participation in broadcast on national (LRT) and private (TV3, LNK) TV news

Presentation of ERC Advanced Grant “Single-cell temporal tracking of epigenetic DNA marks - Epitrack”.

International Conferences

2021, 2022 – The COINS, Lithuania, Vilnius.

2018 – EMBO/EMBL Symposia: : The Complex Life of RNA

Heidelberg, Germany

2016 – EMBO/EMBL Symposia: Organoids

Heidelberg, Germany

2013 – EMBO/EMBL Symposia: The Non-Coding Genome

Heidelberg, Germany

Projects

2019–2022 – Single-cell temporal tracking of epigenetic DNA marks – Epitrack
European Research Council (ERC) Advanced Grant

2016–2018 – Age related remodeling of aorta and dilatative pathology of ascending aorta: search for epigenetic biomarker

Healthy aging program funded by Research Council of Lithuania

2015–2018 – Novel biomarkers for individualized therapy of colon cancer: proteomics, microRNomics and clinics

Healthy aging program funded by Research Council of Lithuania

2012–2014 – Splicing factors and miRNA as diagnostic biomarkers for cancer digestive system

National Research Programme "Non-infectious chronic diseases" funded by Research Council of Lithuania

Awards

2009 - Eileen and Vincent Cadis Foundation Scholarship for outstanding academic achievements

2016- EMBO/EMBL Scholarship for an International Conference

2017-2018 - Lithuanian Science Council Scholarship for academic achievements for doctoral students

List of publications

1. Stankevicius V, Gibas P, Masiulionyte B, **Gasiule L**, Masevicius V, Klimasauskas S, Vilkaitis G. Selective chemical tracking of Dnmt1 catalytic activity in live cells, *Molecular Cell*, 2022, 82, 1053–1065.

2. Daugelaviciene N, Grigaitis P, **Gasiule L**, Dabkeviciene D, Neniskyte U, Sasnauskiene A. Lysosome-targeted photodynamic treatment induces primary keratinocyte differentiation. *Journal of Photochemistry and Photobiology B: Biology*, 2021, 218:112183.

3. **Gasiulė, S.***; Stankevičius, V.*; Patamsytė, V.; Ražanskas, R.; Žukovas, G.; Kapustina, Ž.; Žaliaduonytė, D.; Benetis, R.; Lesauskaitė, V.; Vilkaitis, G. Tissue-Specific miRNAs Regulate the Development of Thoracic Aortic Aneurysm: The Emerging Role of KLF4 Network. *Journal of Clinical Medicine*. 2019, 8, 1609.

4. **Gasiulė, S.***; Dreize, N.*; Kaupinis, A.; Ražanskas, R.; Čiupas, L.; Stankevičius, V.; Kapustina, Ž.; Laurinavičius, A.; Valius, M.; Vilkaitis, G. Molecular Insights into miRNA-Driven Resistance to 5-Fluorouracil and Oxaliplatin Chemotherapy: miR-23b Modulates the Epithelial-Mesenchymal Transition of Colorectal Cancer Cells. *Journal of Clinical Medicine*. 2019, 8, 2115.

5. **Butkytė S**, Čiupas L, Jakubauskienė E, Vilys L, Mocevicius P, Kanopka A, and Vilkaitis G. Splicing-dependent expression of microRNAs of mirtron origin in human digestive and excretory system cancer cells. *Clinical Epigenetics*, 2016, 8:33.

6. Stankevicius V, Vasauskas G, Bulotiene D, **Butkyte S**, Jarmalaite S, Rotomskis R and Suziedelis K. „Gene and miRNA expression signature of Lewis lung carcinoma LLC1 cells in extracellular matrix enriched microenvironment“. *BMC cancer*, 2016.

7. Sasnauskiene A, Jonušienė V, Krištaponienė A, **Butkytė S**, Dabkevičienė D, Kanopienė D, Kazbarienė B, and Didžiapetrienė J. NOTCH1, NOTCH3, NOTCH4, and JAG2 protein levels in human endometrial cancer. *Medicina*, 2014, 50: 14-18.