

RYTIS STAKAITIS

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WORK EXPERIENCE

- 1 Sep 2018 – Present **Junior researcher**
LSMU Neuroscience institute Laboratory of Molecular Neurooncology (LT)
- Gene expression analysis from qPCR and NGS experiments
 - Data analysis from genomic databases
- 1 Sep 2014 – 1 Sep 2018 **Technician**
Lithuanian University of Health Sciences (LT)
- CpG methylation detection applying bisulfite modification and MS-PCR
 - qPCR analysis of total and small RNAs
- 1 Sep 2018 – 1 Sep 2019 **Medical biologist**
Invitro Diagnostika Ltd. (LT)
- Blood smear microscopy
 - Interpretation and consulting on diagnostic tests

EDUCATION AND TRAINING

- 1 Aug 2021 – 1 Aug 2022 **Traineeship: "Computational analysis of sequencing data"**
Oregon Health & Science University, Don Conrad lab (USA)
- Single-cell sequencing data analysis
 - Sequencing data analysis on GenomeDK and Exacloud clusters
 - Small RNA-seq data analysis
- 16 Sep 2019 – 30 May 2020 **Traineeship: "NGS performance and analysis"**
Copenhagen University Hospital, Rigshospitalet, Kristian Almstrup group (DK)
- Small RNA sequencing on Illumina MiSeq
 - Mitochondrial DNA analysis using ONT MinION Cas9 approach
- 2 Jan 2019 – 1 Mar 2019 **Certificate in data analysis using Python**
Kaunas Coding School Ltd. (LT)
- Data management in MySQL
 - Data analysis using Python Pandas and Scikit-learn
- 1 Sep 2018 – 30 Aug 2023 **PhD (Biology)**
Lithuanian University of Health Sciences (LT)
Thesis: "MiRNA studies of tumor tissue and blood extracellular vesicles for diagnosis and prognosis of gliomas"
- 1 Sep 2016 – 1 Sep 2018 **Master's degree in Medical Biology**
Lithuanian University of Health Sciences (LT)
Thesis: "Semaphorin Sema3C molecular mechanisms involved in regulation of gliomagenesis"
- 1 Sep 2012 – 1 Mar 2016 **Bachelor's degree in Molecular Genetics**
Lithuanian University of Health Sciences (LT)
Thesis: "RAB40B and NPTX2 genes expression and promoter methylation analysis in different malignancies of astrocytic glioma"

Command line skills

- Conda, Singularity
- Slurm queue system
- Bash, Python3

Grants & Achievements

- 2 PhD student grants from Lithuanian University of Health Sciences Research foundation (each of 2,900 Eur)
- 2 Erasmus+ traineeship grants (each of 2,400 Eur) and 1 SMPF traineeship grant (3,000 Eur)
- 1 BAFF traineeship grant (30,000 USD)
- 3 incentive scholarships from Research Council of Lithuania (each 2,500 Eur)

Peer - reviewed publications

1. "Identification and comparison of m6A modifications in glioblastoma non-coding RNAs with MeRIP-seq and Nanopore dRNA-seq", Epigenetics – Taylor & Francis
2. "Antisense lncRNA CHROMR is linked to glioma patient survival", Frontiers in Molecular Biosciences – Frontiers
3. "Circulating levels and the bioactivity of miR-30b increase during pubertal progression in boys", Frontiers in Endocrinology – Frontiers
4. "Diverse Monogenic Subforms of Human Spermatogenic Failure", Nature Communications – Nature Portfolio
5. "The piRNA-pathway factor FKBP6 is essential for spermatogenesis but dispensable for control of meiotic LINE-1 expression in humans", AJHG – Cell Press
6. "Transcriptome-wide analysis of glioma stem cell specific m6A modifications in long-non-coding RNAs", Scientific Reports – Nature Portfolio
7. "Variant PNLDC1, Defective piRNA Processing, and Azoospermia", NEJM – NEJM Group
8. "Small RNAs in Seminal Plasma as Novel Biomarkers for Germ Cell Tumors", Cancers – MDPI Group
9. "Plasma-Derived miRNA-222 as a Candidate Marker for Papillary Thyroid Cancer", International Journal of Molecular Sciences – MDPI Group
10. "Papillary Thyroid Carcinoma Tissue miR-146b, -21, -221, -222, -181b Expression in Relation with Clinicopathological Features", Diagnostics – MDPI Group
11. "The Role of CASC2 and miR-21 Interplay in Glioma Malignancy and Patient Outcome", International Journal of Molecular Sciences – MDPI Group
12. "Unique Interplay between Molecular miR-181b/d Biomarkers and Health Related Quality of Life Score in the Predictive Glioma Models", International Journal of Molecular Sciences – MDPI Group
13. "Association of miR-34a Expression with Quality of Life of Glioblastoma Patients: A Prospective Study", Cancers – MDPI Group
14. "High CHI3L1 expression is associated with glioma patient survival", BMC – Springer Nature Group