Ekaterina Zheveliuk

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Work experience and projects participation

Mar 2019- Sep 2023	Jena University Hospital, Department of Haematology and Internal Oncology (PI: Prof Dr Sebastian Scholl) Project: Detection, isolation and characterization of circulating tumor cells from liver and lung cancer Funded by the competitive Landesgraduiertenstipendium scholarship of the state of Thuringia
Aug 2017-	Private tutor of Biology for school students
Feb 2019	
Oct 2016- Jun 2017	Engelhardt Institute of Molecular Biology of Russian Academy of Sciences, Laboratory of postgenomic studies (PI: Dr Anna Kudryavtseva)
Jun 201/	Eaboratory or postgenomic studies (11. Di Tima Kudi yaviseva)

pathological characteristics

Sept 2014-Shemyakin-Ovchinnikov Institute of bioorganic chemistry, Department of Genetics and Postgenomic Technologies, Laboratory of human genes structure and Jun 2015

functions (PI: Evgeniy Sverdlov)

Project: Expression of the modified Dam-methylase gene in mammalian cells

Project: Molecular-genetic analysis of carotid body tumors with various clinical-

Education

Sept 2015- Jun 2017	MSc, Molecular Biology Lomonosov Moscow State University, Russian Federation (degree awarded 30.06.2017)
Sept 2011- Jun 2015	BSc, Molecular Biology Lomonosov Moscow State University, Russian Federation (degree awarded 30.06.2015)
Sept 2008- Jun 2011	School certificate, Gymnasium 1543, Moscow, Russian Federation

Research skills

Molecular biology	extraction and purification of nucleic acids, conventional PCR, RT qPCR, ddPCR, reverse transcription, cDNA synthesis, agarose electrophoresis of nucleic acids, western blotting, construction of plasmid vectors, whole genome and whole transcriptome amplification of a single cell, nucleic acids concentration analysis
Cell biology	plasmid cloning in bacteria, transient transfection of eukaryotic cells, mammalian cell culture, bacterial cell culture, individual cell picking with CellCelector
Software	MS Office; Unix shell basics; Python basics;

R – basics, ggplot2, Bioconductor (vsn, DESeq2, etc), dplyr, gprofiler2

Languages

English (IELTS 8.0, Advanced/Proficiency) | German (Intermediate) | Russian (Native)

Workshops and specialised courses

Dec 2023	Introduction to R, Friedrich Schiller University Jena, Germany Data importing, cleaning, processing, analysis and visualisation; work with functions, multiple variables and subsets of data
Nov 2023 – Feb 2024	Bioinformatics course, Friedrich Schiller University Jena, Germany Functional genomics, NGS, linear regression models, machine learning, sequence analysis
Nov 2023	Introduction to the command line, Zedif workshop, Jena Use of the command line to manage files and folders, start and control programs, search for files and within files, manipulate the content of files, create small scripts for repeating tasks
Oct 2023	Introduction to programming with Python, Graduate academy workshop, Jena Data types and variables, flow control and functions, file reading and writing, visualisation of data
Apr 2023	Academic writing skills, Graduate academy workshop, Jena
Oct 2021	JSAM workshop "Good scientific practice", Jena
Aug-Sept 2018	Summer School of Molecular Medicine , Jena Modules: Novel technologies in leukaemia diagnostics; Tyrosine phosphorylation in oncogenesis; Circulating tumor cells - liquid biopsy of solid tumors; Imaging of molecular structures in cancer
Feb 2017	Applied NGS : human genome and exome analysis. 3-day theoretical and practical course, Moscow Sequence data quality control checks, sequence indexing, sequence alignment, variant calling, annotation
Jun-Jul 2013, Jul 2014	Laboratory course, Pushchino Physical and chemical methods in biology; biological spectroscopy; application of mathematical methods in biology

Conferences

Jun 2023	IZKF retreat of the graduate program "Experimental medicine", Luisental Poster presentation: Detection, isolation and characterization of circulating tumor cells from liver and lung cancer
Apr 2015	Science conference for students and young scientists "Lomonosov", Moscow State University Oral presentation: Expression of the modified Dam-methylase gene in mammalian cells

Hobbies and extracurricular activities

Hackathon "Skinhack 2.0", *2nd prize (team competition)*, November 2017 **Shiseikan Budo**, 2nd kyu brown belt **Music** – Singing and playing guitar and piano in a band; composing **Bouldering**



Publications

Peer-review journals

• Snezhkina A.V., Lukyanova E.A., Kalinin D.V., Pokrovsky A.V., Pudova E.A., Fedorova M.S., Volchenko N.N., Stepanov O.A., Zhevelyuk E.A., Kharitonov S.L., Lipatova A.V., Abramov I.S., Golovyuk A.L., Yegorov Y.E., Vishnyakova Kh.S., Moskalev A.A., Krasnov G.S., Melnikova N.V., Shcherbo D.S., Alekseev B.Y., Dmitriev A.A., Zaretsky A.R., Kudryavtseva A.V. Exome analysis of carotid body tumor. BMC Medical Genomics. 11(Suppl 1):17. DOI: 10.1186/s12920-018-0327-0.

Conference abstracts

- Kudryavtseva A.V., Kalinin D.V., Zaretsky A.R., Golovyuk A.L., Fedorova M.S., Nyushko K.M., Zhevelyuk E.A., Stepanov O.A., Krasnov G.S., Snezhkina A.V. Identification of germline mutations in SDHx genes in carotid body tumour using next generation sequencing. June 18-23, 2017, II Russian National conference "High-throughput sequencing in genomics", Novosibirsk
- Snezhkina A.V., Kalinin D.V., Zaretsky A.R., Golovyuk A.L., Fedorova M.S., Zhevelyuk E.A., Stepanov O.A., Krasnov G.S., Kudryavtseva A.V. NGS application in search for germinal mutations in carotid body tumours. April 26-28, 2017, NGS in medical genetics 2017, Suzdal

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