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Oleg Zakharov

BIOINFORMATICS

About me: I am a student at N.I. Pirogov RNRMU with experience in scientific research and project organisation. I have experience in writing scientific texts and am interested in further development of my skills in bioinformatics, particularly in the areas of proteomics, genomics, transcriptomics and structural bioinformatics. Current area of research is prediction of secondary structures of proteins using Machine Learning techniques.

EDUCATION

2021 - 2027, N.I. Pirogov RNRMU
Medical Cybernetics, specialization in Bioinformatics

EXPERIENCE

10/2023 - Present, *Research assistant*, Department of Bioinformatics MBF RNRMU
- Research in the field of proteomics related to the prediction of protein secondary structures using Machine Learning techniques. The results of the research are being prepared for publication in the form of a scientific article.
- Conducted scientific classes in bioinformatics.

04/2023 - 05/2023, *Data Analyst*, Research Laboratory of Electrophysiology at RNRMU
- Analysis of cardiomyocyte electrical activity obtained by the patch-clamp method.
- Developed a pipeline for signal processing using statistical methods.

CERTIFICATES

2023, *Advanced training 'Bioinformatics and genomics'*, RNRMU, MSU

2023, *Bioinformatics school 'Annotation of amino acid substitutions'*, RNRMU

2023, *Intensive course 'Analysis of genomic variants in bacteria'*, Skoltech Laboratory of Metagenome Analysis

PUBLICATIONS

MapClust is a service for epidemiological and environmental monitoring
A.S. Smirnov, **O.S. Zakharov**, A.M. Pyatnitskiy, & V.M. Gukasov (2023). Medicine and High Technology, (1), 41-49. https://doi.org/10.34219/2 3645-2023-13-1-41-49