



Alexandra Yakusheva is an undergraduate student in Bioengineering and Bioinformatics at Belarusian State University, Minsk. Her work centers on applying computational biology and bioinformatics to drug discovery and biomedical data analysis.

In computational drug design, she works on Quantitative Structure-Activity Relationship (QSAR) modeling and target-based molecular screening. She combines machine learning algorithms with multi-dimensional molecular representations to predict ligand activity and analyze target-ligand relationships.

Additionally, in digital pathology and spatial biology, she applies artificial intelligence and computer vision to oncological image analysis. She employs deep learning architectures and graph neural networks for cell segmentation on tumor tissue microarrays (TMAs) and for analyzing the tumor microenvironment using spatial omics data.

Research Interests: Enzyme Evolutionary Analysis, Target-Based Drug Discovery, Convolutional & Graph Neural Networks (CNNs/GNNs), Computational Oncology.

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