

Mariya Mardamshina

Postdoctoral Scholar, Bioengineering

 Curriculum Vitae available Online

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Mariya Mardamshina, MD, PhD, is a postdoctoral fellow in the Department of Bioengineering, working in Prof. Emma Lundberg's lab. She earned her medical degree from Semey State Medical University and completed her PhD at Tel Aviv University, where her research focused on spatial inter- and intratumoral heterogeneity in breast cancer using mass spectrometry-based proteomics. Currently, her work in the Lundberg lab centers on deciphering cell-to-cell proteomic variability within a spatial framework. Her research involves developing integrated pipelines that combine automated multiplexed staining, high-resolution microscopy, artificial intelligence, and ultra-high sensitivity mass spectrometry to achieve comprehensive proteomic analyses.

STANFORD ADVISORS

- Emma Lundberg, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Integrated spatial proteomic analysis of breast cancer heterogeneity unravels cancer cell phenotypic plasticity.** *Nature communications*
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- **Streamlining Multiplexed Tissue Image Analysis with PIPSigmaX: An Integrated Automated Pipeline for Image Processing and EXploration for Diverse Tissue Types.** *bioRxiv : the preprint server for biology*
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- **High-parametric protein maps reveal the spatial organization in early-developing human lung.** *Nature communications*
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- **Proteogenomics of glioblastoma associates molecular patterns with survival** *CELL REPORTS*
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