Dr. Bora Uyar
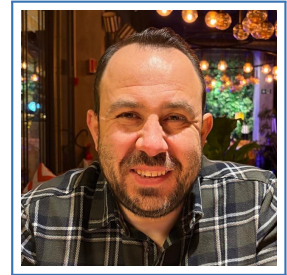
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Summary

I am a Senior Staff Scientist at the Bioinformatics & Omics Data Science platform of the Max-Delbrück-Center for Molecular Medicine. My current research is focused on the development of deep learning-based multi-modal data integration tools for precision oncology. My other roles in the platform include running research collaborations and supporting other researchers in the form of consultations, mentorships, workshops, and user-friendly software development for wet-lab researchers. My work in the last 15 years spanned various topics such as comparative genomics, protein sequence analysis in the context of molecular interactions and disease mechanisms, RNA bioinformatics, and omics data science with a focus on development of reproducible software for the bioinformatics community.

Experience

2015–Present **Bioinformatics Scientist**, *Max-Delbrück-Center for Molecular Medicine*, Berlin, Germany

2014–2015 **Postdoctoral Fellow**, *European Molecular Biology Laboratory*, Heidelberg, Germany

Education

2011–2014 **Ph.D. in Bioinformatics**, *European Molecular Biology Laboratory*, Heidelberg, Germany

2008–2010 **M.Sc. in Bioinformatics**, *Simon Fraser University, BC Cancer Agency*, Vancouver, Canada

2003–2008 **B.Sc. in Biological Sciences**, *Sabanci University*, Istanbul, Turkey

Profiles

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Selected Publications

Nature Communications, 2025	Flexynesis: A deep learning toolkit for bulk multi-omics data integration for precision oncology and beyond
Genome Biology, 2022	Identifying tumor cells at the single-cell level using machine learning
Cell Reports, 2021	Parallel genetics of regulatory sequences using scalable genome editing in vivo
Aging Research Reviews, 2020	Single-cell analyses of aging, inflammation and senescence
GigaScience, 2018	PiGx: reproducible genomics analysis pipelines with GNU Guix
Cell, 2018	Mutations in Disordered Regions Can Cause Disease by Creating Dileucine Motifs
Nucleic Acids Research, 2017	RCAS: an RNA centric annotation system for transcriptome-wide regions of interest

My research in the news

- Using deep learning for precision cancer therapy (mdc-berlin.de)
- New textbook for computational genomics (mdc-berlin.de)
- Searching the sewers for viruses (bionity.com)
- AI identifies cancer cells (bionity.com)
- Parallel Genome Editing in Microscopic Worms Maps Regulatory Genomic Elements to Physiology (genengnews.com)
- Stray proteins cause genetic disorders (sciencedaily.com)
- A genetic chaperone for healthy aging? (bionity.com)