Head of Lab

Job location	Budapest	**Division**	Bioplatform
Status	Full-time	**Industry**	Biotechnology, Pharmaceutical
Contractual status	Employee	**Manage others**	Yes
Starting date	Q2 2022	**Report to**	VP of Biology / CSO

Level

1 - Junior **2** - Experienced **3** - Senior / Expert **4** - Lead

About us

Turbine AI is a foremost innovative start-up company deploying AI technologies to push the boundaries of next generation drug discovery. We welcome candidates who are willing to develop cutting-edge ideas for our newly formed *in vitro* laboratory thereby contributing to the diversity and excellence of our community.

About the role

The Head of Laboratory (HoL) is leading the freshly formed laboratory of Turbine AI. In this role it is expected to lead a team of lab scientists dedicated to routine quality control procedures, research, and development.

Hereby, the HoL acts as the manager of the laboratory department that includes duties, but it is not limited to supervising experimental procedures, reporting to management, controlling, resource planning and monitoring, hiring, performance reviews and training.

The scientific responsibilities are conducted by dedicated scientific personnel, but the HoL is expected to work together closely with the assigned experts to ensure that the laboratory generates high-quality proprietary data. These date are used for AI-assisted training of the company's computational human cell model, The Simulated Cell.

Key responsibilities

- Lead target discovery research projects, in particular: *in vitro* target and biomarker validation processes for novel cancer target candidates generated by *in silico* simulation screens.
- Build a unique target validation platform by setting up CRISPR gene editing techniques. The cells generated will be used in combination with drug treatments for mechanism of action studies, with the help of -omics platforms to characterise changes at a cellular level. Develop further cutting-edge target validation methods, including robotics to generate robust and reliable data cell based data.
- Coordinate design and implementation of experiments for research projects planned

together with senior biologists. Provide scientific input to project team, lead scientific associates to interpret and challenge experimental results.
- Closely collaborate with *in silico* data team leads and perform exploratory research on validation methods and model selection.
- Technical assessment: monitor and refine utilized techniques (CRISPR library generation, Western blot, FACS, microscopy, tissue culture, etc)
- Collaborate with external CROs: assay and material transfer
- Represent Turbine Target Validation research group on pipeline and external advisory meetings, including input on target validation strategies. Present results internally/externally, write final report.
- Shape Turbine's validation platform, perform exploratory research.

What we offer

- Cutting-edge in vitro target validation technology – with potential of publishing
- Unique in silico-in vitro bioplatform
- Place to develop and materialize own ideas, with creativity being the only limiting factor
- Dynamic interdisciplinary and international team of biologists, MDs, data scientists, developers and world-class scientific advisory board
- Competitive salary (EUR/HUF) and support for professional development
- Relocation package if needed

About you

- PhD in molecular biology or relevant scientific field with several years of post-doc experience in cancer biology
- Strong bench background in molecular and cell biology techniques: genetic manipulation of human cell lines, CRISPR gene editing and screening, molecular cloning, biochemical and cell-based assays, FACS (both analysis and cell soring), Western blot and immuno-stainings
- Prior experience with handling and working with human cell lines, single or combination drug treatments. Cell growth read outs: proliferation or competition assay, colony formation assay, etc. is important.
- Experience in drug discovery processes: target and biomarker validation
- Knowledge and understanding of NGS techniques especially with experience in RNAseq preferred
- High experience in assay set up, data analysis and interpretation
- Knowledge of biostatistics and various databases (e.g. NCBI, COSMIC, TCGA)
- Experience in people management and strong orientation towards teamwork
- Ability to work with minimal supervision
- Advanced computer proficiency (Excel, Word, PowerPoint, ELN softwares)
- Excellent oral and written skills, fluent English
- Strong analytical and problem-solving abilities

Nice to have

- Previous work with 3D/organoid cell cultures
- Knowledge of preclinical and xenograft models together with in vivo experimental design and pharmacological treatments is a plus
- Knowledge and interest in automated laboratory technologies
- Interest in computational biology and in silico studies
- Experience in pharmaceutical or biotech industry research
- Experience in risk management and change management
- Work under ISO quality system

If you are interested in this offer, please apply on our website:
https://turbineai.typeform.com/to/ZEzUxOod

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