



## JOB DESCRIPTION

### TARGET DISCOVERY LEAD

**COMPENSATION:** Competitive with share options available

**LOCATION:** BioEscalator, Old Road Campus, Oxford

**HOURS:** Full-time

**CONTRACT TYPE:** Permanent

**NUCLEOME THERAPEUTICS** is a fast-growing biotech start-up that is leveraging a gene regulation platform, based on a decade of world-leading research from Oxford University, to unlock the non-coding genome for drug target discovery and development.

Its proprietary platform combines machine learning and novel molecular biology techniques that define the 3D structure of the genome and enables variant functional validation at scale. The company is focused initially on developing novel treatments for autoimmune diseases related to lymphocytes.

We are seeking a **Target Discovery Lead (Computational Biologist, Data Scientist)** who is a self-starter, proactive and would like to work in a dynamic environment of a start-up. The successful candidate will help us triage the most promising targets identified by our propriety technology into a portfolio of drug discovery programs, assessing druggability, effectiveness and impact as well as the competitive landscape to inform the choices. You'll act as the link between the company's computational and platform technology scientists and use your excellent lab skills to validate these novel targets in vitro, playing a critical role in determining the therapeutic potential of these novel targets. As an independent thinker you will plan and implement experiments, interpret the data, and distil complexity into concise communication, while providing scientific coaching and mentorship for less experienced team members. You will have an integral role in the venture, take ownership of the work and demonstrate an exceptional work ethic towards discovering breakthrough medicines that will improve patients' lives.

### THE KEY RESPONSIBILITIES

- Triage and prioritisation of potential targets identified by our proprietary technology, for relevance in a drug discovery context.
- Through access of relevant databases and software tools, combined with direct experience of drug discovery, evaluate the druggability of potential targets.
- Through interpretation of relevant scientific literature and use of appropriate software tools evaluate potential for effectiveness of target mechanisms and pathways in tackling disease.
- Through good understanding of drug discovery technology and approaches, assess target / mechanism do ability in terms of practical execution of the project from idea to candidate molecules.

- With established knowledge of working in industry, assess the competitive landscape of potential targets and mechanisms.
- Applying strong biology knowledge and practical expertise, define and conduct the critical studies to validate the potential targets and assess causal effect on disease.
- Plan and conduct key genomic/ proteomic and phenotypic experiments to validate potential targets.
- Identify relevant CROs and external expertise necessary to fully validate the target in relevant models of disease.
- Provide scientific and people leadership to direct reports and to others within the broader team as appropriate.
- Contribute to the development and execution of creative directions for the venture.
- Attend in-house seminars and external scientific meetings as appropriate.
- Collaborate cross-functionally with our passionate, creative and dedicated multi-disciplinary team of scientists with expertise in gene regulation, genomics, bioinformatics and machine learning.
- Keep up to date with emerging science and technical advances in field.

## **WHAT WE ARE LOOKING FOR:**

### **EXPERIENCE/SKILLS:**

- PhD in biological discipline, or MSc and demonstrable experience in the fields above.
- 5+ years of directly relevant experience with at least 2+ years in an industry setting.
- Demonstrable experience in target identification, validation and drug discovery in Biotech or Pharma setting
- Knowledge and use of common databases, resources and tools for assessing target do-ability
- Direct experience of Ligand or structure-based drug design and / or systems biology
- Good understanding of the technology and biology requirements for developing suitable assays and screen cascades in drug discovery
- Ability to work independently and as a member of a multidisciplinary team.
- Strong communication skills and ability to communicate complex ideas to technical and nontechnical audiences.
- Strong organizational and leadership skills, with a successful track record of collaborating with cross-functional scientific teams.
- Strong management/leadership skills and demonstrated ability to lead a group of scientists to deliver on objectives in defined timelines.
- Independent, self-motivated and the ability to excel in a goal-oriented, multifaceted and fast-moving team environment.
- Flexible and co-operative approach to colleagues.
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### **PREFERRED EXPERIENCE/SKILLS:**

- Experience with lymphocyte cell biology and targets.
- Experience in auto-immune disease biology, pathways and mechanisms.
- Knowledge and/or strong interest in transcriptional regulation.
- Demonstrated experience in understanding complex biological data.
- Direct experience of developing assays and the building of screen cascades that ensure translation from idea to candidate.
- Direct experience of omics data and other big data sources.

To apply please send us your CV at [careers@nucleome.com](mailto:careers@nucleome.com). If you know someone who could be a good fit, please share this posting with them.

At Nucleome Therapeutics equality, diversity and inclusion are really important to us. We welcome applications from all candidates irrespective of age, disability, gender, gender identity, sexual orientation, race, religion or belief, or marital or civil partnership status.