Research Scientist, In Vivo Pharmacology

Position summary:

Tevard Biosciences, an exciting company co-founded by renowned MIT molecular cell biologist Dr. Harvey Lodish and developing novel tRNA-based gene therapies for rare diseases, is seeking a **Research Scientist, In Vivo Pharmacology,** based in Cambridge, MA. This position requires an innovative mindset, great attention to detail, and the ability to work collaboratively to solve difficult problems. The successful candidate will have an opportunity to positively impact patients with serious unmet medical needs while working closely with our world-class scientific team, including company co-founder Dr. Lodish.

As an expert scientist in *in vivo* pharmacology, you will be responsible for designing and executing proof of concept animal studies for Tevard's tRNA therapeutic leads. Key activities will include: characterizing and validating new animal models, working with Tevard team members and CROs to design and execute *in vivo* studies, assessing disease-relevant biological activity and biodistribution of therapeutic viral vectors and tRNA cargo, and helping to prioritize lead candidates for IND-enabling studies.

Key responsibilities for this position include:

- Establish and characterize *in vivo* disease models including natural history, molecular and behavioral phenotyping
- Design, troubleshoot, and execute *in vivo* proof of concept studies to characterize the efficacy and safety of Tevard's novel tRNA therapeutic leads for multiple disease indications
- Understand mechanism of action of lead candidates and establish assays and endpoints relevant to downstream target and disease biology
- Establish methodologies for stereotaxic surgery and dosing of AAV vectors through multiple routes of administration including direct delivery to the CNS
- Establish methodologies to characterize the biodistribution of AAV vectors
- Responsible for high quality data analysis and study report writing from exploratory to IND stage gene therapy programs
- Play a leading role in selecting and implementing (internally or externally) the most appropriate and translational disease models, including biomarkers, to address program objectives
- Initiate and closely oversee necessary external collaborations including CROs and academic labs
- Demonstrate a mastery of relevant scientific literature and advances in the areas of tRNA and post-transcriptional mRNA regulation; Dravet syndrome, epileptic encephalopathies and other disease indications of interest, conduct literature searches;

communicate understanding in internal forums and with external collaborators and partners.
- Collaborate closely with a team of internal scientific experts and work to establish timelines and accomplish key milestones

Minimum qualifications:

- A Ph.D. in Neuroscience, Biology, Pharmacology or a related discipline, followed by at least 5 years of experience. In vivo pharmacology experience in a drug discovery or gene therapy setting is highly desirable
- A track record of relevant scientific publications in peer-reviewed journals
- Ability to work independently as well as collaborate with colleagues and effectively prioritize and manage multiple tasks in a fluid, fast-paced work environment
- Extensive hands-on experience with a variety of animal models of CNS and other disease indications, experience leading in vivo physiology and pharmacology studies and writing high quality study reports
- Prior experience with animal models of epilepsy and/or ion channel biology is highly desirable
- Hands on experience with rodent stereotaxic surgery and experience using AAVs in animal studies
- Scientifically rigorous, highly organized, with excellent oral and written communication skills

Title commensurate with level of experience.

Contact:

Interested parties please send CV and cover letter to careers@tevard.com.

We are an equal employment opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, national origin, disability status, protected veteran status or any other characteristic protected by law.