



Associate Director, Molecular Biology

Doppler Bio is developing a next-generation programmable precision genetic medicine platform with the potential to transform gene therapy and cell engineering. The company was founded by world leading CRISPR Gene editing pioneers from MIT, Broad Institute, Harvard and Duke Universities and world-class investors using a novel targeted cell and gene therapy platform. The company's early scientific team, composed of experts in the field, plays a leading role in translating the platform technology, defining the early clinical pipeline, formulating the scientific strategy for key preclinical experiments, and spearheading advancements in gene editing therapeutic development. Doppler Bio is committed to pushing the boundaries of genetic medicine, driving innovation, and leading the way in transforming the landscape of healthcare.

JOB DESCRIPTION

We are looking for a highly motivated, enthusiastic, and innovative scientific leader to join our molecular biology team. The ideal candidate should possess a proven track record in genetic engineering of RNA/DNA, setting up and managing advanced cloning, screening and sequencing workstreams. This key role is integral to our foundational science team, focused on advancing the groundbreaking programmable next generation genetic medicines. In this position, you will have the opportunity to showcase your expertise and make a significant impact on platform technology development. Additionally, the role offers significant prospects for professional growth within our rapidly expanding and dynamic startup environment. We invite you to join us in shaping the future of next-generation genetic medicine, where your skills and dedication will play a crucial role in our collective success.

RESPONSIBILITIES

- Lead and actively participate in hands-on platform molecular biology activities related to discovery and development of programmable RNA medicines.

- Drive innovation in designing, engineering, evaluating, and optimizing of novel RNA therapeutic constructs.
- Formulate strategies for RNA screening, utilizing various in vitro model systems to enhance efficiency, reduce screening cycle times, and expedite hit discovery; automate screening workflows wherever feasible.
- Execute medium to high throughput cloning/construct generation using state-of-the-art cloning and synthetic biology methodologies, along with construct screening and next-generation sequencing.
- Establish and implement both in-house and/or external primary and secondary screening assays for RNA constructs.
- Collaborate closely with cross-functional teams to optimize platform technology and advance pipeline programs forward.
- Contribute significantly to the development of core intellectual property related to technology.
- Provide mentorship to the molecular biology team, effectively manage collaborative relationships, and foster their professional growth.
- Collaborate with management in defining budgets, resource management and achieving platform objectives.
- Demonstrate a profound scientific curiosity, staying abreast of scientific literature and remaining informed about the latest technological advancements.
- Effectively communicate research findings to both internal and external teams.

REQUIREMENTS

- Ph.D. in Molecular Biology or Biological Sciences with a minimum of 5 years of relevant industry experience.
- Demonstrated expertise in molecular biology and proficiency in state-of-the-art technologies for RNA/DNA construct design, cloning, engineering and screening.

- Expert knowledge and practical work experience in nucleic acid biology, sequence/structure analyses and synthetic biology.
- Proven leadership and management experience, with a track record of guiding successful discovery and preclinical teams.
- Excellent project management skills, including the ability to multitask and consistently meet deadlines.
- Strong interpersonal and communication skills, enabling effective collaboration with both internal and external stakeholders.
- Innovative and strategic thinking with a focus on driving scientific and therapeutic advancements.
- Strong written and oral communication skills, complemented by effective interpersonal abilities fostering seamless teamwork.
- Desire to work and thrive in a fast-paced, highly collaborative, and dynamic startup environment dedicated to advancing precision genetic medicines.