

Senior Scientist – In vitro Pharmacology - Gene Therapy

Job ID
REQ-10016392
Jul 24, 2024
USA

Summary

About the role: We are seeking a highly skilled and motivated Senior Scientist I to join our dynamic in vitro pharmacology team in San Diego dedicated to advancing gene therapy and siRNA for neurological and neuromuscular diseases. As a key member of our research programs, you will play a critical role in supporting various aspects of biomarker assay development, tissue sample processing, antibody screening campaigns, and monoclonal antibody isolation. Sounds exciting? Join us and make a difference.

About the Role

Your Key Responsibilities:

- Design, develop, and optimize biomarker assays essential for monitoring therapeutic efficacy and disease progression in neurological and neuromuscular gene therapy programs.
- Utilize expertise in ELISA, MSD, and Luminex assays to accurately measure biomarker levels in biological samples.
- Conduct tissue sample processing techniques to extract RNA, DNA, and proteins for downstream analysis.
- Conduct comprehensive analysis of gene expression utilizing techniques such as RT-ddPCR.
- Implement next-generation sequencing methodologies to assess gene expression profiles in relevant tissues.
- Lead antibody screening campaigns, including hybridoma generation, antibody selection, and validation.
- Isolate monoclonal antibodies using state-of-the-art techniques and platforms.
- Collaborate closely with cross-functional teams to integrate findings into the overall program strategy.
- Stay abreast of the latest scientific advancements and contribute to the continuous improvement of experimental protocols and techniques.

Video Link

- <https://www.youtube.com/watch?v=ggbnzRY9z8w>

Role Requirements:

Essential Requirements:

- B.S. in a relevant scientific discipline (e.g., Molecular Biology, Biochemistry, Immunology, Neuroscience)

with 5+ years, MSc with 4+ years or Ph.D. with 2 years of industry experience.

- Strong background in tissue sample processing techniques, including nucleic acid and protein extraction.
- Experience in gene therapy biodistribution methods including ddPCR, RT-ddPC
- Proven expertise in biomarker assay development, including ELISA, MSD, FRET, Luminex, Simoa, Western blot (JESS)
- Experience in cell isolation and characterization using flow cytometry, FACS.
- Knowledge and understanding of next-generation sequencing methodologies and data analysis, including RNAseq, 10x Genomics. Hands on experience a plus.
- Knowledge and understanding of antibody screening campaigns, hybridoma generation, and monoclonal antibody isolation. Hands on experience a plus.
- Proficiency at problem-solving and ability to troubleshoot technical issues independently.
- Strong interpersonal and communication skills, with the ability to collaborate effectively in a team environment.
- Demonstrated track record of scientific innovation and productivity, as evidenced by publications and/or patents.
- Expected travel: approximately 2%

Desirable Requirements:

- Prior experience in gene therapy research, particularly in neurological and neuromuscular diseases.
- Familiarity with industry standards and technologies for biomarker assay development.
- Ability to work in a fast-paced and growing team environment and to prioritize work from multiple projects. Must be highly reliable and goals/deadlines oriented.
- Hands-on experience with automation and high-throughput screening platforms, a plus.

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other.

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The Novartis Group of Companies are committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the application process, or to perform the essential functions of a position, please send an e-mail to us.reasonableaccommodations@novartis.com or call +1(877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Division

Biomedical Research

Business Unit

Pharma Research

Location

USA

Site

San Diego

Company / Legal Entity

U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area

Research & Development

Job Type

Full time

Employment Type

Regular

Shift Work

No

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