

# Senior Scientist – In vitro Pharmacology - Gene Therapy

Job ID  
REQ-10016392  
Juli 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.

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Institutes for BioMedical Research (NIBR)

Business Unit

Pharma Research

Standort

USA

State

California

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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