Investigator/Senior Investigator of Nucleoside/ Nucleotide/Oligonucleotide Chemistry

Summary of Position

GeneLeap Bio, a subsidiary of Luye Pharma. Luye Pharma is a leading life science group with R&D sites located in Greater Boston, MA; Princeton, NJ; Nanjing, China; and Yantai, China, that invents, discovers, develops, manufactures, and commercializes treatments for serious medical conditions for Oncology, CNS, metabolism and other areas of high unmet medical need.

We are seeking a highly motivated individual to join our team as an Investigator/Senior Investigator to advance our Oligonucleotide/Nucleotide/Nucleoside Chemistry (mRNA, antisense and siRNA) and contribute towards innovative therapies for patients with serious genetic diseases.

Role and responsibilities

The Investigator/Senior Investigator will

- Develop novel chemistries for mRNA and oligonucleotide therapeutics.
- Synthesize, purify, and characterize modified nucleosides/nucleotides/oligonucleotides.
- Synthesize DNA/RNA on solid support using automated synthesizers, purifies using HPLC-based methodologies, characterizes, and analyzes.
- Coordinate outsourcing work with CMOs and CROs.
- Works with and trains associates.
- Collaboratively works with biology, formulation, and bioinformatics scientists.
- Contributes to high impact research publications/patent applications and regulatory filings.

Qualifications

- PhD in Organic/Synthetic Chemistry/Biochemistry or a relevant subject area from a reputed University with 5+ years of postdoctoral/industrial experience within the area of nucleoside, nucleotide, and oligonucleotide chemistry is required.
- Thorough knowledge of synthesis of modified nucleosides, nucleotides, DNA and RNA oligonucleotides is essential.
- Hands on experience in HPLC purification methods of nucleosides, nucleotides, DNA and RNA oligonucleotides is required.
- Experience with modern analytical and characterization methodologies, including but not limited to nmr, and mass spectrometry is essential.
- Experience directly dealing with CMOs and CROs is advantageous.
- Any experience working on RNA modifications for mRNA therapeutics is an added advantage.
- Experience working as a team member on projects and willing to collaborate with internal project teams developing various modalities of nucleic acid therapeutics is essential.
- Effective presentation skills of methodologies and results internally to colleagues, including bench scientists, project team leaders, research management, and at scientific conferences is required.
- Ability to independently translate strategy into action in a timely manner is essential.
- Demonstrated experience successfully prioritizing and managing projects and timelines is necessary.
- Strong problem-solving and troubleshooting skills are required.
- Strong verbal and written communication skills and team work ethics are essential.