

Location: Cambridge, MA

Permanent Role with Benefits

Title: Scientist 1 to Principal Scientist of Structural Biology

Sponsorship: STEM OPT and TN Visa for Canadian/Mexican Citizens Permissible. Looking to avoid H1B/O1.

Description:

Accountabilities & Responsibilities:

Design, develop, and implement NMR experiments to accelerate drug discovery programs.

- In collaboration with internal and external resources, design, synthesize and purify stably isotope labeled RNA constructs in quantities suitable for NMR structural studies.
- Coordinate and support efforts to select compounds for preliminary NMR studies of ligands and their complexes with RNA to determine the feasibility of structural studies.
- Proactively identify opportunities for NMR and other approaches to investigate novel drug modalities (PROTACs, small molecule targeting RNA etc.)
- Collect, process, and analyze multi-dimensional NMR spectra of RNA/ligand complexes with optimized sample and experimental parameters for the purposes of 3-D structure determination.
- Understand and determine the structure of RNA /ligand complexes using NMR data as input into a state-of-the-art software package. (*i.e.*, CYANA, AMBER etc.)
- Provide results in a collaborative and effective manner in cross-functional project team settings with other biophysicists, structural biologists, chemists, and biologists
- Conducts scientific presentations to internal audiences of all experimental efforts

Requirements: Proven Experience, Skills and Education:

- Ph.D. in biophysics, chemistry, structural biology or related field or M.S. and 4+ years structural biology experience.
- Proven experience in the synthesis and purification of stable isotope labeled RNA using enzymatic in vitro transcription methods.
- Deep understanding and expertise in solution structure determinations of RNA and/or DNA by NMR, including data acquisition, spectral analysis, and computing structures from NMR spectroscopic parameters.
- Strong background with in vitro binding assays and biophysical techniques as well x-ray crystallography of RNA/DNA is a plus.
- Evidence of creative application of NMR techniques to problems of pharmaceutical interest
- Strong knowledge of organic chemistry, biochemistry, or physical chemistry; experience in a medicinal or process chemistry environment

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Precision Life Sciences is a WBE (Woman-Owned Business Enterprise) with a leadership team that brings over 50 years of direct recruiting and program staffing experience in the areas of Life Sciences and Healthcare. Precision's unique approach delivers accountable staffing solutions resulting in exceptional fill ratios and efficient onboarding programs for our clients.