



**Position Title:** Analytical Chemist

**Reports to:** Naim Nazef

### **Overview**

Dicerna is seeking an experienced Bioanalytical/DMPK scientist specializing in metabolite identification to join the Bioanalytical & Metabolite ID team. You will help to further develop and implement our metabolite ID strategy to assist in the optimization of our DsiRNA-EX-GalNAc Conjugates. It is highly desired that you will have extensive experience in applying high-resolution mass spectrometry to characterize metabolites and assess metabolic stability in various cellular and subcellular in vitro test systems and in vivo systems. Experience in the bioanalysis and quantitation of drug levels in biological matrices and familiarity with oligonucleotide bioanalysis would be a major advantage.

### **Key Responsibilities**

- Develop and implement innovative mass spectrometry based automated metabolite profiling and identification platforms.
- Investigate the interfacing of separation techniques (2D, on-line SPE, and micro/nano LC) with mass spectrometry for oligonucleotide bioanalysis and metabolite identification.
- Operation and hands-on troubleshooting of multiple types of analytical instrumentation including HPLC, UPLC and LC-MS instruments.
- Metabolic profiling and assessing the stability of oligonucleotides in cellular, sub-cellular and biological tissue extracts, and in vivo.
- Able to review and translate complex LC-MS based metabolism data sets and articulate findings to project teams.
- Assist in the planning and management of contract research organizations and collaborations for the outsourcing of oligonucleotide bioanalysis.

### **Qualifications**

- Ph.D. in Analytical Chemistry, Chemistry or Chemical Biology with at least 1-3 years of relevant industrial experience in biotransformation and metabolite identification.
- Demonstrated skills and proficiency in all aspects of nominal and high resolution mass spectrometry for metabolite profiling and identification.
- Expert knowledge and fluent understanding in the operation and maintenance of a variety of LC-MS/MS instrumentation including Waters QTOF and Thermo Orbitrap based systems.



- Strong computer skills and experience with software driven metabolite profiling is required.
- In-depth understanding of drug metabolism, enzymology, bioactivation and ADMET.
- Experience with multiple types of analytical and chromatographic separation techniques, i.e. RP-HPLC, HILIC, SAEX and SEC.
- The successful candidate must be a resourceful and proactive individual who is able to work as a team player in a dynamic environment with tight deadlines.
- Specialization in biotransformation and metabolite identification of oligonucleotides is preferred.
- Knowledge in strategies for the design of oligonucleotide therapeutics (siRNA and antisense) is desirable.