Scientist, Molecular Biology

Company Background

Catamaran Bio is developing novel, off-the-shelf CAR-NK cell therapies designed to treat a broad range of cancers, including solid tumors. Our proprietary capabilities enable us to harness the natural cancer-fighting properties of NK cells and enhance and tailor their effectiveness with the power of synthetic biology and innovative non-viral cell engineering. We are using our TAILWIND™ Platform, an integrated suite of technologies, to specifically address the end-to-end methods of engineering, processing and manufacturing NK cells and rapidly advance our pipeline of CAR-NK cell therapy programs. Catamaran is backed by leading financial and corporate investors, including SV Health Investors, Sofinnova Partners, Lightstone Ventures, Takeda Ventures and Astellas Venture Management.

**Job Summary**

Catamaran Bio is seeking a highly motivated, experienced, and creative individual with expertise in Molecular and Synthetic Biology to be a key contributor to our discovery research efforts to advance our best-in-class Immune Cell Therapies for Oncology. This individual will be responsible for carrying out synthetic construct designs for viral and transposon delivery systems, managing relationships with CROs and providing a critical coordination point across multiple teams to advance the Catamaran pipeline of cell therapies. This position is an exciting opportunity to work with talented scientists within a dynamic start-up environment in the Cambridge, MA biotech ecosystem.

**Job Responsibilities**

* Utilize molecular biology knowledge to translate protein design into gene construct synthesis of Chimeric Antigen Receptor (CAR) and Switch Receptor expression constructs for CMC, Pipeline and Synthetic Immunology groups
* Develop innovative molecular biology approaches to enhance the functionality of our cell therapy pipeline to advance drug candidates into pre-clinical testing
* Create de-novo viral and non-viral human expression constructs
* Interface with and manage interactions with Contract Research Organizations to supply research and CMC groups with high quality plasmid material
* Maintain records of plasmid designs and inventory using Electronic Laboratory Notebook Software
* Perform, troubleshoot, and analyze molecular cloning experiments to support company objectives
* Establish and perform QC analyses on plasmid material using AGE, spectrophotometers or TapeStation analyzers
* Contribute to report writing and documentation for regulatory and IP filings
* Bring enthusiasm and a strong work ethic to the team setting using strong interpersonal skills and collaboration in fast paced environment
* Contribute to building a positive, team-oriented biotech culture
* Work with supervisor to design experiments, meticulously execute bench work, troubleshoot assays, analyze data, record data, and communicate findings
* Work collaboratively with internal team members by coordinating across line functions all reagents and supporting material to deliver starting nucleic acid material in specified timeline
* Present results at internal meetings

Education, Experience and Qualifications

* BS or MS +3 years of industry experience, or Ph.D. in molecular biology, cell biology, biology, immunology, or equivalent/related disciplines
* Extensive experience with molecular biology design software including SnapGene, Benchling, MacVector or similar programs
* Experience designing and generating viral and/or transposon expression constructs
* Demonstrated experience with molecular biology techniques (PCR, Gibson and Golden Gate cloning) and DNA/mRNA quality assessment is required
* Proven ability to deliver protein design solutions for technically challenging synthetic biology problems
* Proficiency in data analysis software including GraphPad Prism, electronic lab notebooks, Microsoft Office etc. for data analysis and figure generation is required
* Ability to balance CRO and internal resources to solve problems and drive progress
* Experience engineering cell lines and primary immune cells is a plus
* Experience with multi-parameter flow cytometry is desired
* Strong analytical and troubleshooting skills with flawless record keeping and multi-tasking abilities
* Ability to quickly learn, and adapt in a fast paced, rapidly developing environment.
* Self-motivated and able to work both independently and on collaborative teams
* Excellent organization and communication skills

**Please contact us at** [**opportunities@catamaranbio.com**](mailto:opportunities@catamaranbio.comn) **or visit us at** [**www.catamaranbio.com**](http://www.catamaranbio.com)

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