

SENIOR SCIENTIST, BIOLOGIC SCIENCE

BOSTON, MA | FULL-TIME

Cytovia Therapeutics is a biotechnology company that aims to accelerate patient access to transformational immunotherapies, addressing several of the most challenging unmet medical needs in cancer. Cytovia focuses on Natural Killer (NK) cell biology and is leveraging multiple advanced patented technologies, including an induced pluripotent stem cell (iPSC) platform for CAR (Chimeric Antigen Receptors) NK cell therapy, next-generation precision gene-editing to enhance targeting of NK cells, and NK engager multi-functional antibodies. Our initial product portfolio focuses on both hematological malignancies such as multiple myeloma and solid tumors including hepatocellular carcinoma and glioblastoma. The company is establishing R&D and GMP manufacturing operations in the greater Boston area and partners with Cellectis, CytoImmune, the Hebrew University of Jerusalem, INSERM, the New York Stem Cell Foundation, STC Biologics, and the University of California San Francisco (UCSF).

The Role

The candidate is expected to lead preclinical research efforts to generate and develop novel therapeutic antibodies and support testing of iNK cell therapies for various indications.

Key Responsibilities:

- Generate therapeutic antibodies either as monotherapy or as bispecific (multi-specific) antibodies to fight human diseases.
- Design and implement antibody discovery plans (immunogen design, assay development, screening and functional characterization methods), and oversee the execution
- Characterize antibodies including binding affinity and binding kinetics through Octet/Biacore, epitope binning/mapping, and functional assays.
- Develop NK cell biological assays and test biological activity of NK cell engager antibodies and iNK cell therapies in these models.
- Design and test multiple CAR-NK and cytokine constructs in NK cells to derive early proof of concept and to identify optimal constructs for iNK cell therapy.
- Develop appropriate human tumor models and test efficacy of NK cell engager antibodies and iNK cell therapies in these models.
- Conduct translational pharmacology studies to support biomarker development for clinical trials and IND enabling studies.
- Manage external collaborations for Cytovia's NK engager programs.
- Analyze data, interpret results, identify problems, and develop trouble shooting plans.
- Present research findings internally and at scientific meetings/conferences.
- Proactively review the scientific literature to identify and share new scientific findings, ideas, and methods with other scientists.
- Perform other duties and responsibilities, as assigned and be a team player in dynamic biotech setting.

Requirements:

- Ph.D. and post-doctoral training in Immunology/Cell Biology/Biochemistry or related fields with demonstrated experience in one or more of the antibody discovery or CAR-NK or T cell therapy platforms
- 3 or more years of experience in antibody discovery or CAR-NK or T cell therapy in academic or biotech/pharma setting
- Proven track record of scientific excellence as evidenced by high impact, peer reviewed publications
- Proactive, willingness to contribute to bench work in the lab
- Must be able to multi-task in a fast-paced environment and use his/her own judgement to prioritize tasks
- Pay attention to detail and be able to work under strict deadlines
- Excellent verbal and written communication skills
- Able to identify problems, make recommendations, and implement timely solutions
- Excellent communication, presentation, and inter-personal skills
- Capability to work as a team player within a dynamic matrix environment, with strong contribution to project strategies and progression

Cytovia Therapeutics is an Equal Opportunity Employer

We strive to create a space free of both explicit and implicit discrimination and harassment where everyone feels safe, heard, and valued. The character of our employees is as important as their talent, and we're proud of the team and environment we're assembling as we grow.