

Research Associate, Functional Biology

Company Overview

GC Therapeutics is the first genome-wide cell landscape exploration company using an integrated synthetic biology and AI-driven platform for cell programming. Its patent-pending and proprietary pluripotent stem cell differentiation technology platform TFome™ was developed in Professor George Church's lab, a pioneer in synthetic biology, and allows for the development of unique cell therapies with significantly streamlined manufacturing, improved cell quality, efficiency and speed. GC Therapeutics is based in Cambridge, MA. For additional information, please visit www.gc-tx.com.

Job Purpose

GC Therapeutics is seeking a talented and detail-oriented individual to join our Functional Biology research group as a research associate. Under the supervision of a senior scientist, this candidate will be responsible for the maintenance, differentiation, and functional analysis of induced pluripotent stem cell (iPSC) lines and their derivatives to support the development of cell-based therapeutics. This role will involve bringing a new class of cellular therapies to patients using GCTx's Human TFome™ platform, a synthetic biology-driven technology to differentiate human stem cells. The candidate should be coachable, determined, well-organized, responsible, and able to collaborate with other team members.

Duties and Responsibilities

General Laboratory Roles:

- Participate in the design and planning of experiments in collaboration with supervisor and team members.
- Execute experiments to differentiate stem cells towards a cell type of interest and perform functional characterization of the differentiated cells.
- Make observations, analyze results, and maintain a detailed laboratory journal.
- Summarize results and create presentations for internal group meetings.
- Work with other members of the research team and within GCTx to accomplish company goals.
- Follow all safe laboratory practices and company policies.

Experimental Techniques:

Molecular Biology:

- Utilize techniques such as PCR, molecular cloning and plasmid isolation.
- Characterize gene expression of target cell types using qPCR.

Cellular Biology:

- Culture PSC lines including maintenance and analysis (e.g. cell culture, transfection, preparation of media, passaging, cryopreservation).
- Differentiate stem cells following GCTx's protocols.
- Optimize, refine and scale differentiation protocols for candidate cell therapeutic products.
- Characterize differentiated cells using methods such as microscopy, flow cytometry, qPCR, ELISA, and other in vitro functional assays relevant to the cell type of interest.

Qualifications

Essential Qualifications:

- Experience with mammalian cell culture and preferred experience with PSCs.
- B.Sc. degree in biology, cell biology, bioengineering, biochemistry, or related discipline.
- 2+ year track record of lab experience. Preferred prior industry experience.

- Proven experience in molecular biology laboratory techniques.
- Strong project management and organizational skills and ability to prioritize and multitask.
- Effective communication with excellent interpersonal skills.
- Ability to work in a laboratory environment approximately 75% of the time including occasional weekend hours.

Additional Preferred Qualifications:

- Practical familiarity with stem cell differentiation protocols.
- Ability to conduct high quality presentations at internal meetings.
- Authorship on scientific reports and manuscripts.
- Knowledge of R, Python and FlowJo.

Interested? Contact recruiting@gc-tx.com to apply!

Send your CV with the subject "Research Associate, Functional Biology."

Equal Opportunity Workplace: GC Therapeutics is an equal opportunity employer. We provide equal employment opportunities to all applicants for employment and existing employees without regard to ancestry, national origin, place of birth, race, color, gender, sexual orientation, marital status, pregnancy, religion, age, disability, gender identity, results of genetic testing, service in the military or otherwise to the full extent of all federal, state and local laws. GC Therapeutics' equal employment opportunity policy applies to all terms and conditions of recruiting, hiring, placement, training, compensation, transfer, leave of absence, employment, promotion, layoff and termination of employment.