Job Title: Regenerative Medicine – Post Doc (Val Sluch)

Company Overview

CRISPR Therapeutics is a leading gene editing company focused on developing transformative gene-based medicines for serious diseases using its proprietary CRISPR/Cas9 platform. CRISPR/Cas9 is a revolutionary gene editing technology that allows for precise, directed changes to genomic DNA. CRISPR Therapeutics has established a portfolio of therapeutic programs across a broad range of disease areas including hemoglobinopathies, oncology, regenerative medicine, and rare diseases. To accelerate and expand its efforts, CRISPR Therapeutics has established strategic collaborations with leading companies including Bayer, Vertex Pharmaceuticals and ViaCyte, Inc. CRISPR Therapeutics AG is headquartered in Zug, Switzerland, with its wholly-owned U.S. subsidiary, CRISPR Therapeutics, Inc., and R&D operations based in Cambridge, Massachusetts, and business offices in San Francisco, California and London, United Kingdom.

Position Summary

Additional Group/Project Summary

- Differentiation of induced pluripotent stem cells (iPSCs) to T-cells is a new area for regenerative medicine that we would like to explore. The combination of iPSC and CAR-T technologies creates the ability to potentially manufacture iPSC-derived CAR-T (CAR-iT) therapeutics that are potentially much cheaper, more reproducible, and more efficacious at killing cancer than primary cell derived CAR-Ts.

  The postdoc would be expected to evaluate and reproduce published iPSC to T-cell differentiation protocols as well as make their own optimizations to the protocols based on literature and experimental data. Once an iPSC to T-cell differentiation protocol is established, stem cell derived CAR-iT cells would be generated, characterized, and compared against primary cell derived CAR-Ts to assess the benefits and/or challenges of CAR-iTs.

Responsibilities

- Optimize/develop iPSC to T-cell differentiation protocols
- Characterize iPSC-derived T-cells (iT cells) in terms of gene expression, killing ability, manufacturing capability
- Generate CAR-iT cells and compare them against primary cell derived CAR-T cells in killing assays in vitro and in vivo

Minimum Qualifications

- PhD in molecular or cell biology or equivalent field
- Excellent oral and written communication skills
- Ability to work independently as well as collaboratively in a results-oriented research team environment
- Self-motivated with critical thinking skills

- You must be legally authorized to work in the United States during the entire length of the postdoc

Preferred Qualifications

- Experience with iPSC differentiation
- Significant experience with various molecular cloning techniques such as restriction enzyme and Gibson Assembly cloning
- Experience with gene editing of mammalian cell lines
- Experience with T-cells/NK cells

Competencies

- **Communication and Teamwork** – Effectively expresses ideas in written, visual and oral context. The ability to work cooperatively with others; the genuine desire to be a part of a team and contribute to organizational and team goals.
- **Undaunted** – Creates an exciting environment where there is a true passion for the vision of CRISPR Therapeutics to bring novel medicines to patients suffering from serious diseases.
- **Results Orientation** – Drives issues to closure and gets the job done. Skilled at analyzing scope of work, as well as planning and executing a successful outcome. Understands and assigns / utilizes resources effectively and efficiently.
- **Entrepreneurial Spirit –** An adventurous spirit, exhibiting A readiness in undertaking a task or project with considerable initiative and risk. The ability to adapt to working effectively within a variety of situations; adapts enthusiastically to organizational change and to changes in job demands.

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