Company Information

Castle Creek Biosciences is a privately held company that develops and commercializes gene therapies for patients with rare and serious genetic diseases. The company's lead gene therapy candidate, FCX-007, is being evaluated for the treatment of recessive dystrophic epidermolysis bullosa (RDEB), the most severe and debilitating form of epidermolysis bullosa (EB). The company is also advancing clinical research evaluating a diacerein topical ointment, CCP-020, for the treatment of epidermolysis bullosa simplex (EBS) and other forms of EB. In addition, Castle Creek Biosciences is developing FCX-013, a gene therapy for the treatment of moderate to severe localized scleroderma. Castle Creek Biosciences is a portfolio company of Paragon Biosciences. For more information, visit castlecreekbio.com or follow Castle Creek on Twitter @CastleCreekBio.

Job Description

Job Title:	**Principal Scientist, Vector and Cell Engineering**
Reports to:	**Assistant Vice President Process Sciences**
Group/Division:	**Manufacturing**
Position Location:	**Exton, PA**
Exempt/Non-Exempt:	**Exempt**

General Responsibilities:

The Principal Scientist, Vector and Cell Engineering, will contribute to the development of viral vector gene therapy constructs and gene editing technologies over a range of therapies. The candidate will develop cutting-edge technologies that enable preclinical cell and gene therapy efforts spanning a range of therapeutic areas. This includes the design, engineering, and production of Lentiviral and AAV-based systems. The candidate should have experience in the optimization of tropism and transgene expression control mechanisms.

Responsibilities:

- Engineer, validate, optimize viral and non-viral systems for transgene delivery in cell culture models
- Build genetic libraries of variants, using high-throughput molecular cloning techniques, generate and characterize virus banks
- Clone and generate plasmids DNA constructs for expression of therapeutic proteins.
- Design studies for development, troubleshooting, and characterization of candidate gene and vector constructs
- Collaborate with internal analytical development to design and perform biochemical and functional assessment of expressed transgene
- Collaborate with internal process development in optimizing transgene delivery in scale up models
- Partner closely with Castle Creek Biosciences' research partners to guide process development programs to ensure a streamlined and feasible product development transition.
- Comply with standard laboratory practices and company policies, including maintaining clear, accurate written records of laboratory procedures, results and conclusions.
- Serve as a subject matter expert, author technical reports and relevant sections of CMC documentation in support of regulatory submissions and amendments.
- Prepare and review vector construct and characterization report as supporting documents for Regulatory Filings
- Willingness to fully engage with a high energy team in pursuit of organizational goals and strategies.

- Ability to prioritize and successfully execute multiple tasks simultaneously.
- Willingness to offer full accessibility and thrive within a transparent work environment.
- Ability to work independently and as part of a team.

Education:

- Ph.D. in Virology, Molecular and Cell Biology or equivalent is preferred.

Experience:

- Ph.D. in Virology, Molecular and Biology or equivalent with a minimum of 5 years post-graduate experience.
- Possesses expert knowledge of scientific principals and concepts in fields of cell therapy, molecular biology, and cell engineering and has extensive experience with multiple techniques in these fields as documented by publications.
- Direct hands-on experience in PCR and recombinant DNA assembly methodology, including restriction enzyme digestion and ligation, cloning, and recombination method.
- Strong computational skills and familiarity with DNA sequence analysis tools, database software, biostatistics, and/or basic bioinformatics is desirable
- Must be detail oriented, self-motivated, flexible, and able to prioritize and manage several fast-paced projects concurrently
- Outstanding verbal and written communication skills for technical and non-technical audiences
- Demonstrated ability to work in cross-functional teams as a strong team player as well as independently

Disclaimer:

This position description is written as a guideline to inform Castle Creek Biosciences Employees of what is generally expected of them at each job level. The description is not intended to be all encompassing or limiting in any manner; rather, it is hoped it will add understanding and better reflect the work performed at all levels of employment within Castle Creek Biosciences. Duties and responsibilities other than those listed may be included as needed within the work group or the company.