



Title: Translational Scientist, Computational Biology

Location: Worcester

Reports to: Director, Preclinical & Translational Sciences

Join our team! At Mustang Bio we are driven by people. The patients we serve and the team we are building are the driving forces behind our mission to deliver life-changing first-in-class cell and gene therapies to patients with genetic diseases and aggressive forms of cancer.

Overview:

We are seeking a highly motivated Computational Biologist to join our Preclinical and Translational Sciences group. The successful candidate will have a background in computational biology, molecular and cell biology, and will provide scientific expertise in integrating translational biomarker data from multiple platforms to investigate safety, efficacy and mechanisms of action, resistance, and relapse in cell therapies. In this unique role you will be at the scientific forefront of cell therapies striving towards improving outcomes for patients with rare genetic disorders, or malignancies through in-depth product characterization and establishing biomarker strategies, and will contribute to both preclinical and clinical programs to advance Mustang's growing gene therapy and adoptive T-cell therapy portfolio.

Responsibilities:

- Apply expertise in computational biology, cell biology or molecular biology to design, develop, and/or validate new tools for product characterization and clinical assay data analysis
- Provide scientific and technical support bioinformatics in assay development/validation and biomarker research in the context of early-stage clinical trials
- Effectively collaborate across discovery, manufacturing and clinical groups, and CROs to devise and execute a biomarker plan, and coordinate related activities and timelines to ensure seamless execution of clinical studies
- Review, interpret and communicate study results to cross functional study team, as needed
- Contribute to reports, data packages for regulatory submissions, scientific manuscripts, and internal and external presentations

Qualifications and Experience:

- MS with 5+ years relevant experience, or PhD in Bioinformatics, Computational biology, Molecular Biology, or a closely related field with 1+ years of relevant post-doctoral experience
- Extensive knowledge and hands-on experience in Bioinformatics techniques (Fluent in scientific scripting languages such as R or Python and bash environment, ability to implement, develop and modify genomics pipelines) and Bioinformatics concepts, databases and tools (to integrate and identify creative solutions in large-scale genomic and proteomics data analysis, including raw data processing and modeling of processed/normalized data)
- Working experience of statistical analysis of biological datasets
- Working knowledge of public databases such as TCGA and CCLE
- Experience with PCR, qPCR, immune cell subsets data analysis is desired
- Experience with bioinformatic algorithms for immune repertoire analysis is a plus
- Critical thinking, scientific reasoning and problem-solving skills
- Excellent technical writing and oral communication skills
- A track record of analytical reasoning and creative problem-solving skills
- Detail-oriented, self-motivated and proven ability to drive research independently and as part of cross-functional teams
- Ability and desire to work in a challenging dynamic environment under tight deadlines