

(Sr) Bioinformatics Scientist

Location: Houston, TX

Inquiries and Resumes should be sent to: careers@alaunos.com

Summary

Designs and implements computational analysis pipelines for single-cell sequencing, whole exome sequencing and bulk-RNA sequencing data. Implements end users' needs in database searching and integration, which includes interpretation of sequence alignments and gene expression patterns and the quality control of sequencing data. Maintains the computational pipeline and controls the workflow for the next generation sequencing data analysis in a cloud computing environment

Responsibilities

- Performs analysis of multi-omics data including single cell RNA-Seq, bulk RNA-Seq data, single cell TCR sequencing data; illustrates and interprets results to collaborators
- Implements and optimizes bioinformatics tools to facilitate gene expression analysis, mutation detection, annotation, copy number alteration detection and calculation of clonality status of mutations
- Works closely with the genomics and TCR hunting teams
- Maintains and upgrades the existing computational pipeline, evaluates and integrate new algorithms for single cell data analysis to the pipeline
- Download and analyze datasets from literature of public datasets (e.g. TCGA) to support the team

Education and Experience

- At least 2 years of experience on the analysis of next generation sequencing data
- Bachelor or master's degree in bioinformatics, computer science, statistics or relevant fields

Knowledge, Skills and Abilities

- Proficiency in Bash, R, Python and familiarity of Linux-based computing environment (such as AWS)
- Solid understanding of the next generation sequencing (NGS) technology, especially whole exome sequencing RNA-Seq
- Proficient knowledge of cancer genomics, including raw read alignment, mutation calling and annotation, gene expression etc.
- Demonstration of the understanding of the algorithms for NGS data analysis
- Expertise in machine learning and statistical algorithms is a big plus
- Knowledge in immunology or cancer immunotherapy is not required but preferred
- Knowledge in HLA, T-cell receptors and B-cell receptors is not required but preferred
- Strong communication skills

Working Conditions

Some travel required (up to ~5%).



About AlauNos

AlauNos is developing commercially scalable, cost-effective T-cell receptor (TCR) T-cell therapies based on its non-viral Sleeping Beauty gene transfer platform targeting solid tumors. The company has clinical and strategic collaborations with the National Cancer Institute and The University of Texas MD Anderson Cancer Center. For more information, please visit www.alauNos.com

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