Bioinformatician position

A Postdoctoral Bioinformatician position is available immediately at the IMCB Laboratory for Cell Fate Reprogramming and Therapy. The laboratory focuses on developing novel tools and strategies for deriving therapeutic cell types through reprogramming.

Applicants with strong background in Bioinformatics and next-generation sequencing data analysis, machine learning, AI are invited to apply. Successful candidates must be highly motivated, have passion for research and be able to work in an interdisciplinary environment.

Requirements:

- Ph.D. from a well-recognized institution with a strong research background in Bioinformatics /Computer science/Biostatistics or equivalent
- Experience in bioinformatics and data analysis for DNA microarray, ChIP-seq and RNA-seq
- Experience with open source bioinformatics tools
- Excellent analytical, technical and problem solving skills
- Knowledge with biostatistics highly desirable
- Self-starter who is comfortable working in a fast moving interdisciplinary team
- Strong publication record in peer-reviewed journals
- Committed and able to work flexible hours
- Excellent communication, technical writing and presentation skills

Interested candidates are asked to send a cover letter detailing your research motivations, CV, and the names and email addresses of three references to Jonathan Loh (yhloh@imcb.a-star.edu.sg).

References:

1) Wong K et al Nuclear receptor-SINE B1 network modulates expanded pluripotency in blastoids and blastocysts. **Nat Commun.** 2024 Nov 19;15(1):10011
2) Yin T et al Breaking NGF-TrkA immunosuppression in melanoma sensitizes immunotherapy for durable memory T cell protection. **Nat Immunol.** 2024 Feb;25(2):268-281.
3) Hamashima K et al Single-nucleus multiomic mapping of m6A methylomes and transcriptomes in native populations of cells with sn-m6A-CT. **Mol Cell.** 2023 Aug 25:S1097-2765(23)00649-4.
4) Cipta NO et al H3.3 safeguards haematopoietic ERV-quilibrium. **Nat Cell Biol.** 2022 Jan;24(1):7-9.
5) Xing QR et al Diversification of reprogramming trajectories revealed by parallel single-cell transcriptome and chromatin accessibility sequencing. **Sci Adv.** 2020 Sep 11;6(37):eaba1190.
6) Yang BX et al Systematic Identification of Factors for Provirus Silencing in Embryonic Stem Cells. **Cell**. 2015 Sep 24;163(1):230-45.
7) Yu L et al. Alternative splicing of MBD2 supports self-renewal in human pluripotent stem cells. (2014) **Cell Stem Cell** 15(1), 92-101.
8) Gore A et al. Somatic coding mutations in human induced pluripotent stem cells. (2011) **Nature** 471, 63-67.