

Postdoctoral Fellowship in Single Cell Immunology South African Tuberculosis Vaccine Initiative, University of Cape Town

The South African Tuberculosis Vaccine Initiative performs cutting edge clinical and immunological research in TB pathogenesis, biomarker development and clinical vaccine development. We are embarking on a number immunology projects that aim to discover vaccine-induced immune correlates of protection from TB, building on the groundbreaking positive results of two recent clinical trials of TB vaccines. We are inviting applications for a postdoctoral fellowship in single cell immunology. The successful candidate will perform single cell RNA sequencing and T cell receptor repertoire profiling on samples collected in clinical trials of TB vaccines to identify immune correlates of protection against TB. The project is part of a large collaborative international effort to discover immune correlates of protection against TB. The fellow will be based in Cape Town, but the project may include activity-related travel to collaborating institutes. The successful candidate will be part of the SATVI Bioanalytical Node and Immunology team and will contribute to design, development, and performance of lab work and computational data analyses. For more information on SATVI, visit www.satvi.uct.ac.za.

Key Requirements:

- Ph.D. degree within the last 5 years in immunology, bioinformatics or computational biology, or PhD in biological sciences with at least 3 years of relevant bioinformatics or computational biology experience.
- Demonstrated solid scientific proficiency, creativity, critical thinking ability to collaborate effectively with others, and independent thought processes.
- Authorship of peer-reviewed publications related to bioinformatics, computational biology or immunology.
- Ability to handle multiple projects and priorities with exceptional organizational and time management skills.

Knowledge and experience in T cell biology or single cell sequencing and especially immunology, working proficiency in UNIX/Linux and R programming and strong skills in the application of computational and statistical analytical techniques with a focus on high-dimensional and multivariate data analysis will be advantageous.

The candidate should not have held any prior permanent professional or academic positions and must be prepared to comply with the policies, procedures and practices for the postdoctoral sector at the University of Cape Town. The fellowship is initially tenable for two years, but renewal each year will be contingent on annual progress and performance reviews. The fellowship is valued between R350,000 and R450,000 per year and will depend on relevant experience and skills. The fellowship is compliant with the rules set by the SARS and is exempt from taxation and includes no benefits. No direct service will be required in return for the fellowship.

Potential applicants are encouraged to contact Prof. Thomas Scriba (Thomas.scriba@uct.ac.za), Deputy-Director, Immunology, or Dr Munyaradzi Musvosvi (munyaradzi.musvosvi@uct.ac.za), by e-mail, prior to application.

To apply, please email a letter of motivation, full CV and contact details of 3 referees, clearly indicating “**Postdoctoral Fellowship**” in the subject line, to Ms Alison September at a.september@uct.ac.za.

Closing date for applications: 30 August 2021.

