

# Postdoctoral Fellowship – Cryptococcal nitrogen metabolism

Department of Microbiology, Stellenbosch University, Stellenbosch, 7600, South Africa

**Scope of Research:** The successful candidate will coordinate the research of four postgraduate students studying the nitrogen metabolism of pathogenic cryptococci and other basidiomycetous yeasts. It is expected from the successful candidate to; submit at least three research grant applications; and publish at least four peer reviewed scientific articles per annum on the nitrogen metabolism of basidiomycetous yeasts. The yeasts include both clinically and industrially relevant species.

## Requirements:

1. PhD in Microbiology (must have graduated within the last five years).
2. Publication record on the effects of nutrient stress on cryptococcal metabolism and virulence factors.
3. Demonstrated ability to conduct scientific editing beyond own field of expertise
4. Demonstrated ability to submit articles, and revise submissions, on the websites of different reputable scientific journals.
5. At least two years' experience in managing an internationally competitive research laboratory, including running expenses, equipment servicing, as well as postgraduate supervision.
6. Expertise in cell culture techniques and animal infection models.
7. Expertise in bioinformatic analysis.
8. Must have extensive knowledge on antifungal resistance mechanisms.

**Commencement of duties:** 1 March 2022

**Enquiries:** Prof A. Botha, Department of Microbiology, Faculty of Science, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa. Email: [abo@sun.ac.za](mailto:abo@sun.ac.za) .

**Applications:** A letter of application, accompanied by a comprehensive curriculum vitae, including list of publications, as well as degree certificates, academic transcripts, and the names and contact details of at least three referees, should be send to [abo@sun.ac.za](mailto:abo@sun.ac.za) . Merge all documents into a single PDF and attach it to the application. *Applicants should request their referees to forward confidential reports by the closing date directly to the same address.* Incomplete applications will not be considered.

**Closing date:** 5 January 2022 (The university reserves the right not to fill the position)