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## **PhD in Pharmacology offered**

**21 April 2010**

The Division of Pharmacology at the University of Stellenbosch is offering the opportunity to pursue a PhD in pharmacology.

The core components of the research will include:

1. The investigation of the in-vitro metabolic stability of therapeutic agents, with particular reference to drugs used in the management of multi-drug resistant and extensively drug resistant tuberculosis.
2. The use of liver microsomes and known substrates of cytochrome P450 isoenzymes to predict, in-vitro, the potential for drugs and traditional medicines to interact with co-administered medicines. The research will focus on second-line antituberculous drugs and drugs used in the management of HIV initially, but will be expanded to include drugs in diverse therapeutic areas.

The candidate will be responsible for the development and refinement of the above in-vitro methodologies and the application thereof to perform studies in key therapeutic areas, including potential drug interactions with antiretrovirals.

This expertise is in great demand particularly in the area of HIV therapeutics and co-administered medications. The candidate will therefore be instrumental in the establishment of an important research tool at the University of Stellenbosch.

Since start-up funding has been made available, the project should be initiated within the next few months.

**Requirements:** An MSc in pharmacology, biochemistry, physiology or related field and experience in laboratory technologies is highly recommended. Previous experience with the use of liver microsomes and/or bioanalytical techniques (MS, HPLC, etc) would be an advantage but is not essential.

**Applications:** Interested parties are to contact Lejandra Hanekom on 021 938 9045 or email: [lejandra@sun.ac.za](mailto:lejandra@sun.ac.za)



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