



POSTDOCTORAL RESEARCH FELLOWSHIPS IN ENZYMOLOGY

The Scientific Computing Research Unit (SCRU) invites highly motivated individuals to apply for Postdoctoral Research Fellowships in its **Cancer Translational Experimental Laboratory (CTL)**. The project is a collaboration between SCRU's Computation and Modelling Laboratory (CML) and the CTL. The successful candidate will undertake enzyme reaction and kinetics experiments that support and inform the high performance computer glycoenzymatic reaction dynamics simulations, using inhouse and commercially sourced sensitive assay methods.

Scope of research:

- Glycosyltransferases expression and purification;
- Michaelis-Menten kinetics experiments;
- Experimental validations of selected sialyltransferase Inhibitors in enzyme assays;
- Offer guidance to students wishing to gain glycoenzymatic experience
- Optimization of sialyltransferase Inhibitors assays
- Breast cancer cell lines assays specific for metastasis and apoptosis
- Manages the Cancer Translational Laboratory (CTL)

Academic Conditions:

Applicants must have:

- a PhD degree in an area of experimental Physical Organic Chemistry/Chemical Biology/Biochemistry/Molecular Biology or Structural Biology
- Graduated with the above PhD in a period after June 2016

The following would be advantageous:

- Some undergraduate training in an area of statistical or physical science will be an advantage.
- Publications in an area related to enzymatic reactions
- A working knowledge of/training in chemical glycobiology

General Conditions:

- applicants may not have held any prior professional or academic posts;
- successful applicants will be required to comply with the university's policies and practices for the postdoctoral sector;
- The University of Cape Town reserves the right to:
 - disqualify ineligible, incomplete and/or inappropriate applications;
 - change the conditions of award or to make no awards at all;
- the fellowships do not include any benefits or allowances, and
- the successful candidate will be required to register as a Postdoctoral Research Fellow at UCT by October 2019 or sooner.

Value and tenure:

The fellowship is valued at R300 000 per annum. The fellowship may be renewed for a second year depending on satisfactory progress and mutual agreement.

Applications:

Must be made online at: <http://www.scientificcomputing.uct.ac.za/scru/degrees-programmes/post-doc-form/>

The following documents are required:

- a letter of application in which the candidate's research interests are outlined;
- a Curriculum Vitae, including a list of publications;
- certified copies of all academic transcripts (no certificates); and
- the names and contact details of two academic referees who have taught/supervised the applicant.

Closing date for applications is 1 August 2019 Enquiries:

Please contact Lydia Dreyer at the Scientific Computing Research Unit for further information.
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