Postdoctoral Positions

MOLECULAR CELL BIOLOGY
Institute for Molecular Bioscience

The IMB is one of Australia’s premier biomedical research Institutes and is situated at the University of Queensland, Brisbane, Australia. The IMB houses 31 research groups in the Divisions of Genomics and Computational Biology, Chemical and Structural Biology, Molecular Cell Biology, and Molecular Genetics and Development. Our emphasis is on quality basic research and its translation into medical and biotechnological outcomes.

The IMB is equipped with state-of-the-art research facilities including advanced optical microscopy, electron microscopy, bioinformatics, mouse and zebrafish housing, genome-wide shRNA expression libraries, microarray, proteomics, histology, protein production, NMR, X-ray as well small molecule screening and synthesis facilities supporting all aspects of cell biology research.

The University of Queensland provides a rich and diverse research environment. Research in the IMB is complemented by numerous research groups in various University Faculties as well as The Queensland Brain Institute, Australian Institute for Bioengineering and Nanotechnology and The Diamantina Institute for Cancer, Immunology and Metabolic Medicine.

The Role: The group of Professor Alexandrov at the Division of Molecular Cell Biology has openings for two postdoctoral fellows.

The candidates will be involved in the improvement and application of a novel Leishmania-based cell-based and cell-free protein expression system. The developed technology will be applied in different projects in the areas of structural and chemical biology. The projects include: a) reconstitution and quantitative analysis of protein interaction and enzymatic networks \textit{in vitro}; b) development of approaches for rapid engineering and production of membrane proteins and protein complexes for structural analysis; c) analysis of translational regulation and application of this knowledge to the development of advanced versions of \textit{in vivo} and \textit{in vitro} Leishmania - based protein expression systems.

Qualifications: PhD in a relevant discipline (eg. Biochemistry/ Molecular/ Structural Biology)

Knowledge and Skills

\textbf{Essential}

\begin{itemize}
  \item Demonstrated excellence in molecular biology or protein biochemistry and biophysics.
  \item Excellent organisational skills.
  \item Ability to work productively with minimal supervision.
\end{itemize}

\textbf{Desirable}

\begin{itemize}
  \item Experience with high throughput molecular biological applications and data management.
  \item Experience in methods of structural analysis of proteins.
  \item Experience in spectroscopic methods of protein analysis.
\end{itemize}

Remuneration: This is a 2 year fixed-term appointment at Academic Research Level A or B. The remuneration package will be in the range $49,704 – $67,420 (Academic Research Level A) or $70,968 - $84,275 (Academic Research Level B) p.a., plus employer superannuation contributions of 17\% (total package will be in the range $58,153 - $78,881 (Academic Research Level A) or $83,032 - $98,601 (Academic Research Level B) p.a.).

Contact: Applications including a cover letter, CV, a one page statement of research interests and the names of three referees should be sent to k.alexandrov@uq.edu.au

Further information:

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