



RESEARCH FELLOW IN DRUG DISCOVERY BIOLOGY

DEPARTMENT/UNIT	Drug Discovery Biology
FACULTY/DIVISION	Faculty of Pharmacy and Pharmaceutical Sciences
CLASSIFICATION	Level A
WORK LOCATION	Parkville campus

ORGANISATIONAL CONTEXT

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

The **Faculty of Pharmacy and Pharmaceutical Sciences** is dynamic, innovative and ambitious, engaging in world-class research and being a leading education provider for over 130 years. We have two key research initiatives: the Monash Institute of Pharmaceutical Sciences and the Centre for Medicine Use and Safety, in which we engage some of the best equipped and most experienced pharmaceutical scientists in Australia. From a teaching perspective, our education curriculum - comprised of undergraduate, postgraduate and higher degrees by research programs - is purpose designed for the study of pharmacy and pharmaceutical science and taught by discipline experts. Our premises are located in 'the Parkville Strip', Australia's premier health and biomedical precinct, and offer world-class teaching facilities and research laboratories to our students and staff. To learn more about the Faculty, please visit our website: www.monash.edu/pharm/.

The **Drug Discovery Biology** (DDB) research teams within the Monash Institute of Pharmaceutical Sciences (MIPS) comprise a critical mass of scientists with broad expertise in receptor-molecular and cellular biology, whole-animal studies and translational discovery research.

POSITION PURPOSE

A Level A research-only academic is expected to contribute towards the research effort of the University and to develop their research expertise through the pursuit of defined projects relevant to the particular field of research.

The Research Fellow performs a range of research-related activities (including administrative and operational responsibilities) to support the delivery of research program outcomes. Working under broad direction, the position is responsible for performing a range of drug discovery research-related activities, with a particular

focus on structural biology, structure-function, and biophysical studies of GPCR molecular pharmacology projects, in addition to support and delivery of outcomes that may involve administrative, financial and other activities associated with the research program.

Reporting Line: The position reports to an Academic within the Drug Discovery Biology Theme

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budget Responsibilities: Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level A research-only academic may include:

1. The conduct of research under limited supervision either as a member of a team or, where appropriate, independently and the production or contribution to the production of conference and seminar papers and publications from that research
2. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
3. Limited administrative functions primarily connected with the area of research of the academic
4. Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff
5. Occasional contributions to teaching in relation to the incumbents research project(s)
6. Experimental design and operation of advanced laboratory and technical equipment or conduct of advanced research procedures
7. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental, school and/or faculty meetings and/or membership of a limited number of committees
8. Advice within the field of the staff member's research to postgraduate students

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
 - A Ph.D. degree or equivalent qualifications/experience in molecular pharmacology, biochemistry or a related discipline from a recognised university or equivalent qualifications and research experience

Knowledge and Skills

2. Strong evidence of previous research experience in structural biology or related discipline, and an ability to use appropriate software to examine protein structure, and x-ray or electron microscopic density maps
3. Extensive experience in the expression and purification of integral membrane proteins and the study of protein-protein interactions. Specific experience on GPCRs would be highly desirable
4. Experience with membrane protein crystallisation and/or cryo-electron microscopy is desirable
5. Ability to solve complex problems by using discretion, innovation and the exercise of high-level diagnostic skills within areas of functional responsibility or professional expertise
6. Excellent written communication and verbal communication skills with proven ability to effectively analyse complex information and produce clear, succinct reports and documents which requires interaction with others

7. Well-developed high level, planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines
8. Demonstrated well-developed computer literacy and proficiency in the production of high level work using software such as Microsoft Office applications and specified University software programs, with the capability and willingness to learn new packages as appropriate
9. A demonstrated awareness of the principles of confidentiality, privacy and information handling

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University will be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- Flexibility to travel to project partners inter-state

LEGAL COMPLIANCE

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.