



# RESEARCH FELLOW

<b>DEPARTMENT/UNIT</b>	Drug Delivery, Disposition and Dynamics
<b>FACULTY/DIVISION</b>	Pharmacy and Pharmaceutical Sciences
<b>CLASSIFICATION</b>	Level A
<b>DESIGNATED CAMPUS OR LOCATION</b>	Parkville campus

## ORGANISATIONAL CONTEXT

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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](http://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. Our key research initiative is the Monash Institute of Pharmaceutical Sciences, in which we engage some of the best equipped and most experienced pharmaceutical scientists and medicine experts in Australia. Notably for the past 3 years Monash has been ranked in the top 3 institutions in the world for Pharmacy and Pharmacology. 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 sciences and taught by discipline experts. Our premises are located in 'the Parkville Strip', Australia's premiere 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](http://www.monash.edu/pharm).

The **Monash Institute of Pharmaceutical Sciences (MIPS)** integrates research from five fundamental research themes to identify, develop, optimise and deliver new drug treatments – ultimately translating basic research into clinical trials. These are the [Centre for Drug Candidate Optimisation](#), [Drug delivery, disposition and dynamics](#), [Drug discovery biology](#), [Medicinal Chemistry](#) and the [Centre for Medicine Use and Safety](#).

MIPS is Australia's largest, most experienced and successful group of pharmaceutical scientists. Over 250 staff and 250 PhD students undertake and support basic and translational drug discovery, drug delivery and drug development research in new, state-of-the-art laboratories on Monash's Parkville campus. MIPS was established in 2008 and builds upon the ground-breaking research activities of the Victorian College of Pharmacy, Monash University, developers of the [Relenza flu treatment](#). Our internationally recognised institute strives to conduct the most insightful science in our field by the best researchers and research students in world-class facilities. Our contemporary and collaborative organisational structure enables our research to occur where our core scientific disciplines meet. Collaboration at these disciplinary interfaces is expected to transform medicine design and development outcomes.

MIPS key therapeutic programs span across neuroscience, metabolic and cardiovascular diseases, global health issues, cancer, immunity, pain and inflammation. Our researchers are leaders in their fields. Their brilliance and dedication ensure that better medicines of world significance are discovered, researched and designed right here in Australia. Our [talented staff](#) include international leaders in G protein-coupled receptor biology, translational medicinal chemistry, structural biology, lead candidate optimisation, drug delivery, pharmacoepidemiology, pharmacometrics and medication safety.

MIPS has strong partnerships with industry leaders, including the global drug companies [Servier](#), Takeda and Lonza, Biotech companies including Starpharma and PureTech Health and our own start-up companies such as Cincera. In total, we have long-term collaborative research programs with more than 20 biotechnology and pharmaceutical companies. We also collaborate with leading national and international research institutes and universities and attract substantial support from industry, government and funding agencies. Our supporters include the ARC, NHMRC, Victorian State Government, the National Institutes of Health in the US, the World Health Organization (WHO), the Bill and Melinda Gates Foundation, the Medicines for Malaria Venture, the Drugs for Neglected Diseases initiative and various commercial and philanthropic organisations.

## POSITION PURPOSE

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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 will work on a number of projects, both academic in nature and in collaboration with industrial partners, focusing on the central nervous system (CNS) exposure of therapeutic entities, approaches to manipulate the blood-brain barrier (BBB) for the purposes of CNS drug delivery and reversal of neurodegenerative diseases, and assessment of pharmacokinetics of novel drugs and drug formulations. The research projects will involve experiments utilising animal models of disease, *in vitro* cell culture, pharmaceutical analysis and imaging modalities. The Research Fellow will be exposed to national collaborative partners (academic and industrial) and will have an opportunity to publish findings in internationally-recognised journals.

**Reporting Line:** The position reports to Associate Professor, Drug Delivery, Disposition and Dynamics

**Supervisory Responsibilities:** Opportunities to supervise Honours, Masters and PhD students are available

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

## KEY RESPONSIBILITIES

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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 their 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
9. Other duties as directed from time to time

## **KEY SELECTION CRITERIA**

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### **Education/Qualifications**

1. The appointee will have:
  - A doctoral qualification in pharmaceutical sciences, pharmacology, neuroscience or related fields.

### **Knowledge and Skills**

2. A demonstrated ability to undertake studies in animal models, including pharmacokinetic studies
3. A demonstrated ability to develop and validate quantitative assays using high performance liquid chromatography and/or liquid chromatography/mass spectrometry
4. A demonstrated ability to undertake in vitro cell culture studies, including experience with molecular biology techniques such as Western blotting and qPCR
5. Demonstrated analytical and manuscript preparation skills; including a track record of refereed research publications
6. Ability to solve complex problems by using discretion, innovation and diagnostic skills and/or expertise
7. Well-developed planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines
8. Excellent written communication and verbal communication skills with proven ability to produce clear, succinct reports and documents
9. A demonstrated awareness of the principles of confidentiality, privacy and information handling
10. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
11. Demonstrated 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

## **OTHER JOB RELATED INFORMATION**

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- Travel to other campuses of the University may 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

## **GOVERNANCE**

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Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.