

# LECTURER - DRUG DISCOVERY BIOLOGY

DEPARTMENT/UNIT	Drug Discovery Biology
FACULTY/DIVISION	Faculty of Pharmacy and Pharmaceutical Sciences
CLASSIFICATION	Level B
DESIGNATED CAMPUS OR LOCATION	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 [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. The areas of research strength of the five

themes at MIPS are Drug Delivery, Disposition and Dynamics, Drug Candidate Optimisation, Drug Discovery Biology, Medicinal Chemistry and 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. Evidence of the success of this approach is apparent in our rapidly expanding drug discovery pipeline, powered via University spin outs, licence deals and industry collaborations.

MIPS' key areas of therapeutic focus are in neuroscience and mental health, cardiovascular and metabolic health, and global health, although these focus areas are not exclusive and we have significant programs of research in 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 Johnson and Johnson, 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. An important philosophy of the research underpinning all the Themes in MIPS is to utilise our discoveries to inform best practice for the benefit of society through both translation and through education of the next generation of pharmaceutical field leaders.

Our research activities are backed by access to major research infrastructure, organised into readily accessible research platforms on site at MIPS and also via the broader Monash University platform network.

Educational Research is an emerging area of strength in the Faculty, coordinated within the Pharmacy and Pharmaceutical Sciences Education Theme (PPS-Ed). Staff within this Theme conduct ground-breaking research that underpins our educational approach and informs our cutting-edge innovations. Active learning, experiential learning during placements, interpersonal communication and critical thinking skills development, and individual student coaching are all evidence-based teaching approaches that have been studied and published within PPS-Ed.

## **POSITION PURPOSE**

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A Level B academic is expected to make contributions to the teaching effort of the University and to carry out activities to maintain and develop scholarly, research and/or professional activities relevant to the profession or discipline.

The successful candidate will be expected to contribute to the Faculty's undergraduate education and postgraduate training programs in pharmaceutical science and pharmacy. They will also be

expected to develop an independent research program in Drug Discovery Biology. This research will be conducted within the Monash Institute of Pharmaceutical Sciences.

**Reporting Line:** The position reports to the Head of Theme, Drug Discovery Biology

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

## KEY RESPONSIBILITIES

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Specific duties required of a Level B academic may include:

### Leadership

1. Contribute to leadership via roles within the Faculty and MIPS to drive research and education strategy, to broaden collaborative partnerships with external agencies, academics and industry both nationally and internationally
2. Provide contributions to leadership to the discipline, in professional, commercial and industrial sectors where appropriate

### Research

3. Lead a research program with national and international impact, including as Chief Investigator on major grant applications and through supervision of a research team
4. Undertake original research that will lead to high impact publications in refereed journals and presentations at key scientific and professional conferences
5. Undertake a significant role in research projects including initiating major funding initiatives and leading research teams
6. Provide support, supervision and mentorship to PhD, Honours and Postgraduate students
7. Attract and mentor early career researchers in the development of their individual research profiles
8. Maintain a current understanding of research trends and outcomes that make significant contributions to the advancement of Pharmacy and/or Pharmaceutical Sciences by developing sustainable links with other academics in the field, government departments and key industry partners

### Teaching

9. Work closely with Faculty of Pharmacy and Pharmaceutical Sciences staff through providing strategic advice to ensure that Monash University continues to provide highly innovative education in pharmacy and pharmaceutical sciences that is of the highest standards and quality
10. Contribute to teaching, including preparing online content, delivering lectures, tutorials, seminars, practical classes, demonstrations, workshops, clinical supervision, report writing, and marking and assessments
11. Develop and practice innovative teaching and learning methods, demonstrating an openness to adopt and engage with new developments, that ensure graduates are best placed to address key challenges in pharmaceutical science
12. 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 the relevant discipline area or equivalent accreditation and standing.

### Knowledge and Skills

2. Possess a high level of interpersonal skills and demonstrated ability to work independently and as part of a team across both the education and service sectors
3. Demonstrated publication record in high-quality refereed journals
4. Demonstrated ability in undertaking outstanding research and leading a research team and project. Particularly favourable is candidates with research experience in any of the fields of:
  - Cancer Biology, Cardiac metabolism, Diabetes complications, Immunometabolism, Neurodegeneration/Neuroinflammation, Nephropathy; and/or
  - Technologies aligned with the MIPS therapeutic focus areas such as neuroscience and mental health, or cardiovascular and metabolic health, such as CRISPR technology, iPSCs/organoids computational biology/big data ('omics-based), and/or whose research complements existing laboratories within the Drug Discovery Biology Theme
5. Proven record of, or potential to, obtain significant external grants for research
6. Demonstrated record of successfully supervising postgraduate research students
7. Ability to work positively and cooperatively with students, internal and external teams and external organisations
8. Demonstrated record of teaching experience in a tertiary environment. Prior experience teaching physiology and/or pharmacology at a tertiary level is preferable
9. Demonstrated ability to motivate, actively engage and educate a given audience
10. Proven ability, commitment and passion for engaging in scholarly and research activities
11. A demonstrated capacity to work in a collegiate manner with other staff in the workplace

## 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
- A current satisfactory Working With Children Check is required

## 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.