



POSITION DESCRIPTION

Department of Biochemistry and Pharmacology
School of Biomedical Sciences

Research Fellow, Respiratory Pharmacology

POSITION NO	0065535
CLASSIFICATION	Level A
SALARY	\$83,468 - \$113,262 p.a. (pro-rata part time)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full-time (1 FTE)
BASIS OF EMPLOYMENT	Fixed term for 24 months (option to extend)
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers , select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	Dr Elena Schneider-Futschik elena.schneider@unimelb.edu.au <i>Please do not send your application to this contact</i>

For information about working for the University of Melbourne, visit our website:
about.unimelb.edu.au/careers

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of the unceded land on which we work, learn and live: the Wurundjeri Woi Wurrung and Bunurong peoples (Burnley, Fishermans Bend, Parkville, Southbank and Werribee campuses), the Yorta Yorta Nation (Dookie and Shepparton campuses), and the Dja Dja Wurrung people (Creswick campus).

The University also acknowledges and is grateful to the Traditional Owners, Elders and Knowledge Holders of all Indigenous nations and clans who have been instrumental in our reconciliation journey.

We recognise the unique place held by Aboriginal and Torres Strait Islander peoples as the original owners and custodians of the lands and waterways across the Australian continent, with histories of continuous connection dating back more than 60,000 years. We also acknowledge their enduring cultural practices of caring for Country.

We pay respect to Elders past, present and future, and acknowledge the importance of Indigenous knowledge in the Academy. As a community of researchers, teachers, professional staff and students we are privileged to work and learn every day with Indigenous colleagues and partners.

Position Summary

We are seeking a highly motivated postdoctoral researcher to join 'Rare and Complex Lung Disease' Lab - a research project at the intersection of respiratory disease, women's health, and pregnancy. This NHMRC Ideas -funded project will explore placental insights into the pathways of fetal pharmacokinetics/pharmacodynamics, integrating PK modelling and development of CF pathology, cutting edge multi-omics approaches (proteomics, RNA-Seq), and histological assessments. The researcher will gain hands-on experience in both clinical and biomedical research, working across disciplines in a collaborative translational research environment to advance precision medicine.

The School of Biomedical Sciences and its Departments foster a [values-based](#) culture of innovation and creativity to enhance the research performance of the University and to achieve excellence in teaching and research outcomes.

We invest in developing the careers and wellbeing of our students and staff and expect all to live by our Faculty Values of:

- Collaboration
- Compassion
- Respect
- Integrity
- Accountability

1. Key Responsibilities

1.1 RESEARCH AND RESEARCH TRAINING

- ▶ Development of pharmacokinetic/ pharmacodynamic workflows for undertaking the in-depth analysis of the human placenta
- ▶ Generation of investigations into maternal-fetal drug transfer

- ▶ Contribute to strong team ethos and collaborative research culture
- ▶ Contribute to the development of a new comprehensive national/international database for the cystic fibrosis-pregnancy research community.

1.2 LEADERSHIP AND SERVICE

- ▶ Actively participate at School and/or Faculty meetings and with guidance, contribute to planning activities or committee work to support capacity-building in the School/discipline.
- ▶ Identify sources of funding to support individual or collaborative projects, relating to teaching, research and engagement practice in the discipline
- ▶ Effective training of research support staff where required
- ▶ Participate in community and professional activities related to the relevant disciplinary area
- ▶ Effective demonstration and promotion of University values including diversity and inclusion and high standards of ethics and integrity

1.3 RESPONSIBILITY AND COMPLIANCE

- ▶ Participate in research independently and as a member of a research team
- ▶ Contribute to data collection and analysis, using specialised programs for qualitative/quantitative data assessment such as Graphpad.
- ▶ Ownership of defined elements of a research project(s) or coordination of research project(s)
- ▶ Contribute to publications arising from scholarship and research, such as publication of books and in peer reviewed journals
- ▶ Active participation in the communication and dissemination of research where appropriate
- ▶ The co-production of conference and seminar papers and publications and attendance and presentations at conferences and seminars where appropriate
- ▶ Supervision or co-supervision of major honours or postgraduate research projects within research area, (subject to completion of a PhD)
- ▶ Adhere to Occupational Health and Safety (OHS) responsibilities as outlined in Section 4

2. Selection Criteria

2.1 ESSENTIAL

- ▶ PhD, substantial progress towards PhD or Honours/Masters degree in relevant area
- ▶ Demonstrated ability to apply research methodologies and quantitative/qualitative data analysis
- ▶ Demonstrated excellent verbal and written communication skills for effective research collaboration and engagement
- ▶ Multidisciplinary skills required across respiratory pharmacology including animal models and human tissue analysis.
- ▶ Independent pharmacokinetic modelling analysis.
- ▶ Demonstrated written communication skills including manuscript draft preparation
- ▶ Comfortable working with patient and control groups in the context of cystic fibrosis pharmacology and pregnancy research

- ▶ Strong analytical and problem-solving skills
- ▶ Basic data and statistical platform experience (e.g., REDCap).

2.2 DESIRABLE

- ▶ Ability to identify research grants and procurement
- ▶ Demonstrated potential to supervise or co-supervise and mentor undergraduate, honours and graduate diploma stage postgraduate students where appropriate.
- ▶ Previous experience working with patient populations in a clinical or research settings.
- ▶ Experience in biochemistry techniques (eg. mass spectrometry), multi-omics data integration, immune-histochemical analysis.
- ▶ Familiarity with pregnancy and respiratory diseases.

2.3 OTHER JOB-RELATED INFORMATION

- ▶ This position requires the incumbent to hold a current and valid Working with Children Check. The University of Melbourne is dedicated to safeguarding the welfare of all community members, especially those most vulnerable. As part of our commitment to child safety and in line with the Victorian Child Safe Standards, this position will be required to hold a valid Employee WWCC, regardless of where in the University an employee may work or what work they do.

3. *Equal Opportunity, Diversity and Inclusion*

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University makes decisions on employment, promotion, and reward on the basis of merit.

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the Advancing Melbourne strategy that addresses diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment. Consequently, the People Strategy sets out the strategic aim to drive diversity and inclusion across the University to create an environment where the compounding benefits of a diverse workforce are recognised as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

4. Occupational Health and Safety (OHS)

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

<https://safety.unimelb.edu.au/people/community/responsibilities-of-personnel>

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.

5. Other Information

5.1 DEPARTMENT OF BIOCHEMISTRY AND PHARMACOLOGY

<https://biomedicalsciences.unimelb.edu.au/departments/departments-of-biochemistry-and-pharmacology>

The Department of Biochemistry and Pharmacology has critical mass, interdisciplinary teaching and a remarkable breadth and depth in research expertise that underpin our key themes of molecular understanding of biology and disease, translational research, drug discovery and development. The majority of the Departments research laboratories are located in the [Bio21 Molecular Science and Biotechnology Institute](#) affording excellent access to state-of-the-art technology platforms.

5.2 SCHOOL OF BIOMEDICAL SCIENCES

<https://biomedicalsciences.unimelb.edu.au/>

As part of the Faculty of Medicine, Dentistry and Health Sciences since 2015, the School comprises three Departments, [Departments of Anatomy and Physiology](#), [Biochemistry and Pharmacology](#), and [Microbiology and Immunology](#). It has 85 research groups across the three departments, awarding-winning teachers and more than 2500 equivalent full-time student enrolments each year.

Our Mission

Create an innovative and inclusive academic environment building on a strong legacy of world-class excellence and lay the foundation for new generations of biomedical researchers to create new knowledge and lead the revolution in biomedicine, and realise their dream of advancing human health locally and globally.

Our Vision

- Promote collegiality and an inclusive academic environment through the engagement of partners, institutes, hospitals, industries, government and the community at large.
- Cultivate the highest level of excellence in research and education.
- Attract and develop a diverse and talented academic workforce.
- Lead the revolution in biomedicine and translate research outcomes into life transforming healthcare.

- Strengthen our intellectual and technological environment through interdisciplinary interactions, integration of resources and creative thinking.
- Seize all opportunities to create the conditions for sustainability.
- Observe the highest standards of ethics and integrity.

5.3 FACULTY OF MEDICINE, DENTISTRY AND HEALTH SCIENCES

www.mdhs.unimelb.edu.au

The Faculty of Medicine, Dentistry and Health Sciences (MDHS) is Australia's pre-eminent medical, health sciences and biomedical faculty and is recognised for its research, teaching, training, and policy leadership across all these fields.

The Faculty employs more than 3,000 staff, attracts more than 8,300 students each year and comprises six schools; 37 departments, centres and institutes; and 160 courses.

A large portion of our workforce work in hospital-based departments. We also have over 5,000 honorary staff including hospital-based staff and those in partner research institutes. Our people publish more than 10,000 peer reviewed publications every year and more than 50% of these include an international co-author.

In 2021 our research income was approximately 400M, comprising over 62% of research income for the University of Melbourne and conducting approximately 47% of all research across the University.

We are Australia's overall leader in clinical and health, ranked 14th globally in 2022 by the Times Higher Education World University Rankings. The 2023 Academic Ranking of World Universities ranks the University of Melbourne as first in Australia in clinical medicine (14th internationally), public health (12th internationally), human biological sciences and medical technology.

The University educates more health professionals, graduates, research and higher degree students and attracts more national competitive funding than any other Australian university. The Faculty offers a suite of professional entry masters level graduate programs, including the Doctor of Medicine (MD), the Doctor of Dental Surgery (DDS), and the Doctor of Physiotherapy (DPT) in addition to a range of graduate level programs such as the Master of Public Health, Master of Primary Health Care, Master of Social Work, Master of Clinical Audiology, Master of Speech Pathology, Master of Clinical Optometry, and many more in nursing, social work, health sciences and psychology.

Over 1,400 graduate research students conduct research supervised by over 2,300 staff and honoraries across the Faculty's six schools and in affiliated health services and research institutes. University departments are embedded in a range of health services including the Austin Hospital, Northern Hospital, Royal Melbourne Hospital, St Vincent's Hospital, The Royal Women's Hospital, Royal Children's Hospital, Western Hospital, Mercy Hospital and rural partners such as Goulburn Valley Health.

Our strategic plan, Advancing Health 2030, sets out a unifying vision for the Faculty to meet the challenges of a changing world and continue to make an impact on the health and wellbeing of our communities. The strategy has been designed to support and bring to life the University's overall Advancing Melbourne strategy. Read more at: <https://mdhs.unimelb.edu.au/advancing-health-2030>

5.4 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded.

Further information about working at The University of Melbourne is available at <http://about.unimelb.edu.au/careers>

5.5 ADVANCING MELBOURNE

The University's strategic direction is grounded in its purpose. While its expression may change, our purpose is enduring: to benefit society through the transformative impact of education and research. Together, the vision and purpose inform the focus and scale of our aspirations for the coming decade.

Advancing Melbourne reflects the University's commitment to its people, its place, and its partners. Our aspiration for 2030 is to be known as a world-leading and globally connected Australian university, with our students at the heart of everything we do.

- We will offer students a distinctive and outstanding education and experience, preparing them for success as leaders, change agents and global citizens.
- We will be recognised locally and globally for our leadership on matters of national and global importance, through outstanding research and scholarship and a commitment to collaboration.
- We will be empowered by our sense of place and connections with communities. We will take opportunities to advance both the University and the City of Melbourne in close collaboration and synergy.
- We will deliver this through building a brilliant, diverse and vibrant University community, with strong connections to those we serve.

The means for achieving these goals include the development of the University of Melbourne's academic and professional staff and the capabilities needed to support a modern, world-class university. Those means require a commitment to ongoing financial sustainability and an ambitious infrastructure program which will reshape the campus and our contribution to the communities we engage with. This strategy, and the priorities proposed, is centred around five intersecting themes; place, community, education, discovery and global.

5.6 GOVERNANCE

The Vice Chancellor is the Chief Executive Officer of the University and responsible to Council for the good management of the University.

Comprehensive information about the University of Melbourne and its governance structure is available at <https://about.unimelb.edu.au/strategy/governance>