

Stem Cell Research / iPSC Biobank Manager

College/Division	College of Health and Medicine
School/Section	Menzies Institute for Medical Research
Location	Medical Science Precinct - Hobart
Classification	HEO8
Reporting line	Principal Research Fellow Kaylene Young

Position Summary

The University of Tasmania is building a vision of a place-based University with a mission to enhance the intellectual, economic, social and culture future of Tasmania, and from Tasmania, contribute to the world in areas of distinctive advantage. The University recognises that achieving this vision is dependent on the people we employ as well as creating a people-centred University that is values-based, relational, diverse, and development-focused.

We are seeking to appoint a Stem Cell Research / iPSC Biobank Manager at the [Menzies Institute for Medical Research](#) (Menzies), part of the [College of Health and Medicine](#).

Menzies is one of Australia's leading health and medical research institutes and is recognised worldwide for its research excellence. Menzies' mission is to perform internationally significant medical research leading to healthier, longer and better lives for all Tasmanians. Research takes a bench-to-bedside and disease prevention approach that is aimed at improving patient care and clinical outcomes for the community by translating knowledge into clinical and policy actions and through the commercial application of discoveries. Tasmania, an island state with a population of over 500,000 people, has a discrete health system that enables close engagement within the University and with government agencies and health providers and offers a unique framework for translational health research.

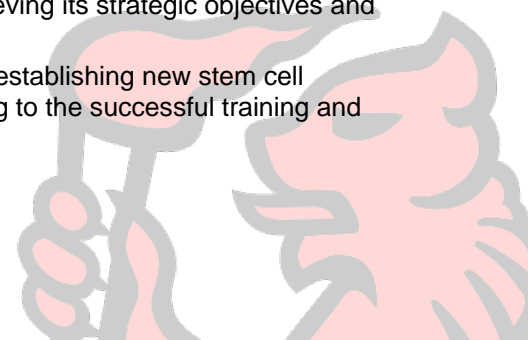
Menzies' five themes reflect the burden of disease in the Tasmanian community: Public Health, Primary Care and Health Services; Musculoskeletal Health & Disease; Brain Health & Disease; Cardiovascular and Respiratory Health & Disease; and Genetics and Cancer.

The Stem Cell Researcher (iPSC Biobank) will lead the establishment of a Multiple Sclerosis focused induced pluripotent stem cell (iPSC) biobank. This position includes obtaining informed consent from participants, dealing with identified and deidentified human data, the processing of blood samples to generate iPSCs, karyotyping and validation of the iPSCs, the differentiation of iPSCs into neural stem cells and the management of this resource.

We are an inclusive workplace committed to 'working from the strength that diversity brings' reflected in our Statement of Values. We are dedicated to attracting, retaining and developing our people and are committed to inclusive principles. We celebrate the range of diverse assets that gender identity, ethnicity, sexual orientation, disability, age and life course bring. Applications are encouraged from all sectors of the community. Tell us how we can make this job work for you.

What You'll Do

- Make an effective and sustained contribution to the University in achieving its strategic objectives and fulfilling its operational responsibilities.
- Establish and manage an iPSC resource of international standing by establishing new stem cell protocols and assays for use by researchers at UTAS and contributing to the successful training and



supervision of staff and research higher degree students in stem cell biology.

- Manage and direct the activities of the iPSC Biobank by obtaining informed consent from study participants, utilising blood samples to generate iPSC lines, performing quality control analyses for each new stem cell line and keeping thorough records for each stem cell line banked.
- Develop and implement a business case to ensure the sustainability of the stem cell facility into the future.
- Supervise and mentor research by higher degree and honours students who are using cells from the Biobank.
- Liaise with national and international researchers accessing samples from the facility and ensure protocols are in place relevant to stem cell shipping that comply with legislation in overseas jurisdictions.
- Write and manage human research ethics applications related to the stem cell bank and associated projects using the deidentified samples.
- Prepare and submit papers for publication and present papers at conferences as appropriate.
- Contribute to the development and maintenance of productive and effective links inside the University and locally, nationally and internationally within the discipline, profession, industry and wider community.
- Undertake other duties as assigned by the supervisor.

What We're Looking For (success criteria)

- A PhD or equivalent in a relevant field.
- Significant experience in the generation, maintenance and validation of human iPSC lines.
- Experience in the use of databases to catalogue the storage and retrieval of live cells from cryostorage.
- A current working knowledge of stem cell technologies and stem cell applications.
- A clear understanding of Australia's safety and ethical administrative framework, with particular reference to operations within a human stem cell laboratory.
- Demonstrated evidence of sustained, high-quality research output, such as the publication of scholarly papers in high quality peer reviewed journals, or evidence of substantive contributions to stem cell research facility operations.
- A record of successful student and / or staff mentoring and supervision.
- A record of contributing to building and maintaining effective and productive links locally, nationally and internationally within the discipline, profession, industry (where relevant) and wider community.
- Experience in iPSC differentiation to produce and validate neural stem cell lines and the oversight of a biobanking facility would be desirable. Experience applying CRISPR/Cas9 genome editing to modify iPSCs is also desirable.

University of Tasmania

The University of Tasmania is an institution with an enduring commitment to our state and community, and a strong global outlook. We are committed to enhancing the intellectual, economic, social and cultural future of Tasmania. Our [Strategic Direction](#) strongly reflects the University community's voice that our University must be place based but globally connected as well as regionally networked and designed to deliver quality access to higher education for the whole State.

We believe that from our unique position here in Tasmania we can impact the world through the contributions of our staff, students and graduates. We recognise that achieving this vision is dependent on the people we employ, as well as creating a university that is values-based, relational, diverse, and development-focused.

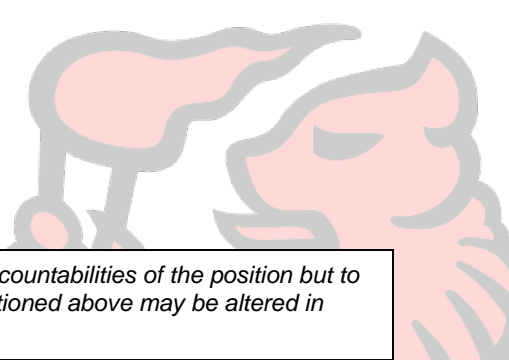


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The intention of this position description is to highlight the most important aspects, rather than to limit the scope or accountabilities of this role. Duties above may be altered in accordance with the changing requirements of the position.



It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.