Position Summary

A Post-Doctoral Fellow (Level A) is expected to contribute towards the research effort of UNSW and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The Postdoctoral Research Fellow will undertake research in human and animal research aimed at investigating the microbiome mediated immune metabolic changes in liver disease and liver cancer. The Liver Cancer Research Group within the Microbiome Research Centre (MRC) has five research themes including liver disease and liver cancer. The research team focuses on the role of the gut microbiota in obesity, metabolic syndrome and chronic liver diseases including non-alcoholic steatohepatitis, cirrhosis and hepatocellular cancer.

The Postdoctoral Research Fellow reports to the Chief Investigator and has no direct reports.

Accountabilities

Specific accountabilities for this role include:

- Contribute independently or as a team member in collaborative research with a focus to enhance the quality of research outcomes in the discipline area.

- Conduct research into the role of microbially-mediated immune-metabolic modulation in liver disease and/or enable research teams to create scholarly output that is recognised by peers.

- Support the dissemination of research outcomes through appropriate channels and outlets.

- Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering and/or recording of results using appropriate research methods.

- Appraise research methodology and analyses, whilst conducting systematic literature reviews.

- Contribute to the day-to-day organisation and supervision of the research team, whilst actively providing guidance on research methods and approaches, and monitor data analysis performed by team members.

- Contribute to the planning of experiments and set timelines for the conduct of experiments pertaining to the research.

- Identify funding opportunities and actively seek and apply for externally funded fellowships and grants.
• Produce and contribute to animal/human ethics applications as appropriate.
• Engage in developing new research projects, consistent with the group strengths and interests.
• Effectively communicate and foster strong working relationships with technical, administrative and research staff.
• Establish and maintain collaborations with potential and current research partners.
• Assist with the supervision of research students in the research area where required.
• Participate in and/or present at conferences and/or workshops relevant to the project as required.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
• Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience
• A PhD in the area of immune metabolic, or a related discipline and/or relevant work experience.
• Demonstrated experience in animal experiments, molecular biology, immunological assays, particularly in the area of obesity, liver disease or the microbiome.
• Demonstrated experience using imaging technology.
• Demonstrated experience in nucleic acid extraction, PCR amplification, sequencing techniques as well as flow cytometry, cell sorting and cell culture.
• Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
• Demonstrated track record of publications and conference presentations relative to opportunity.
• Track record in providing technical supervision to undergraduate, honour and PhD students and research staff.
• Highly developed data analysis skills and experience in use of several statistical packages including skills necessary for bio-informatics analysis of sequence and gene expression data.
• Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
• Evidence of highly developed interpersonal skills.
• Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
• Demonstrated ability to supervise undergraduate students.
• An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.
• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

PRE-EMPLOYMENT CHECKS REQUIRED FOR THIS POSITION
• Verification of qualifications

About this document
This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.