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## POSITION DESCRIPTION

# Post-doctoral Fellow

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Position Level	A
Faculty/Division	Medicine & Health
Position Number	00098753
Original document creation	27/10/ 2021

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### Position Summary

A Post-Doctoral Fellow (Level A) is expected to contribute to multiple laboratory projects including an industry partnership. The position will be responsible for contributing and designing experiments, including therapeutic treatment of *in vitro* and *in vivo* models of pancreatic cancer as well as a 3D human explant model of the disease, assessment of therapeutic response and assisting the broader team with other research related duties. They will be expected to regularly engage with multiple administrative, research and clinical members of the team to ensure successful completion of objectives and to analyse, compose and communicate findings to key members of the program.

The role of Post-Doctoral Fellow reports to the Professor, Leader of the Pancreatic Cancer Translational Research Group and has no direct reports.

### Accountabilities

Specific accountabilities for this role include:

- Assist with designing experiments and establishing protocols.
- Contributing to therapeutic treatment of *in vitro* and *in vivo* models of pancreatic cancer with a variety of therapeutics (small molecule and nanoparticle).
- Contributing to the analysis of therapeutic response *in vitro* and *in vivo* using a variety of phenotypic and

molecular assays.

- Participate in second harmonics and polarised light analysis of collagen content in pancreatic tumour specimens.
- Contribute to immunohistochemistry analysis of human pancreatic tumour tissue for biomarkers and quantify their expression.
- Collating and interpreting results.
- Assist in producing reproducible empirical results, generating publication-quality figures and text, and leading the development of peer-reviewed publications for high quality journals.
- Presenting research methods and results at national and international conferences.
- Assist in producing and submitting applications for fellowships and grants.
- Assist with the supervision and training of staff and Honours, PhD or ILP students.
- Contribute to ethics submissions and annual reports, including budgets and consent forms.
- Perform administrative duties as required associated with the function of the research group.
- 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.

### **Essential Skills and Experience**

- A PhD in a related discipline, and/or relevant work experience is essential.
- Demonstrated track record of high impact first-author publications.
- Mammalian tissue culture and manipulation (general culture, nucleic acid transfection, viral transduction, drug treatments).
- Phenotypic assessment of cell response in culture (including assays to measure proliferation, clonogenicity, apoptosis, senescence).
- Mouse handling experience including establishment, treatment, and analysis of mouse models of cancer.
- General molecular biology techniques (including RNA/DNA/protein extraction, qPCR, Western blot, cloning).
- Experience using confocal microscopy.
- Experience performing and quantifying immunohistochemistry.
- Ability to build and maintain scientific relationships within and between teams; comfortable engaging with complex discussions.
- Good organisational skills.
- Ability to rapidly learn new skills.
- Excellent verbal communication skills: able to present original research at national/ international scientific conferences.
- Excellent written communication skills: able to contribute to and lead papers, grants, and technical reports.

- 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.