THE UNIVERSITY OF WESTERN AUSTRALIA

# POSITION DESCRIPTION

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|---|---|
| **Position Title** | Research Associate (Electrophysiology) |
| **Classification** | Level A |
| **School/Division** | School of Human Sciences |
| **Centre/Section** | |
| **Supervisor Title** | Professor |
| **Supervisor Position Number** | 309924 |
| **Position Number** | |

## Your work area

The School of Human Sciences was formed in 2017 as an amalgamation of the School of Anatomy, Physiology & Human Biology and the School of Sports Science, Exercise and Health. The School is one of the largest in the University and makes a significant contribution to the BSc majors in Anatomy and Human Biology, Exercise and Health, Physiology, Neuroscience, Medical Sciences, and Sports Science. The School also play a key role in delivery of doctorate programs in medicine, dental medicine and podiatric medicine

## Reporting structure

Reports to: Professor

## Your role

As the appointee you will, under general direction, work on characterising L-type calcium channel function in expression systems and murine CRISPR mutant models. Reporting to Research Professor Livia Hool, you will work in the Cardiovascular Electrophysiology Laboratory in the School of Human Sciences.

## Your key responsibilities

Coordinate and conduct research experiments and activities and interpret results.

Supervise and assist staff and students in laboratory skills.

Plan and develop a range of research activities

Contribute to research reports and seminar presentations

Publish academic papers and other scholarly outputs to a high international standard, and in accordance with the research expectations of the UWA School of Human Sciences and research funded by NHMRC

Apply for competitive travel grants and contribute to writing competitive research grants

Conference participation as required

Other duties as directed

## Your specific work capabilities (selection criteria)

Relevant degree and post graduate qualification in biophysics and/or physiology or pharmacology or molecular science or biochemistry

Experience in patch-clamp measurement of ion channels, single channel and/or macroscopic currents, and pClamp software

Ability to supervise students and/or staff

Proficiency in a range of computing skills such as spreadsheets, databases, and statistics

Well-developed organisational skills and ability to set priorities and to meet deadlines

Ability to work independently, show initiative and work productively as part of a team

Well-developed written and verbal communication skills

Knowledge of safety issues relating to the use of laboratory equipment and chemicals

Experience in animal physiology and biochemistry is desirable

Experience in molecular biology and preparation of mutant constructs and transfection of contructs in culture cell lines is desirable

Experience in animal physiology (measurement of cardiac contractile function by left ventricular catheterisation, echocardiography), and biochemistry (immunoblot and/or western blot technique, fluorescent detection of calcium and/or mitochondrial function) are desirable

## Special requirements (selection criteria)

Conference participation as required or directed

National and/or international travel may be required

## Compliance

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

The University's Code of Conduct hr.uwa.edu.au/policies/policies/conduct/code/conduct

Inclusion and Diversity web.uwa.edu.au/inclusion-diversity

Safety, health and wellbeing safety.uwa.edu.au/

THE UNIVERSITY OF WESTERN AUSTRALIA

# POSITION DESCRIPTION

| | |
|---|---|
| **Position Title** | Research Fellow (Electrophysiology) |
| **Classification** | Level B |
| **School/Division** | School of Human Sciences |
| **Centre/Section** | |
| **Supervisor Title** | Professor |
| **Supervisor Position Number** | 309924 |
| **Position Number** | |

## Your work area

The School of Human Sciences was formed in 2017 as an amalgamation of the School of Anatomy, Physiology & Human Biology and the School of Sports Science, Exercise and Health. The School is one of the largest in the University and makes a significant contribution to the BSc majors in Anatomy and Human Biology, Exercise and Health, Physiology, Neuroscience, Medical Sciences, and Sports Science. The School also play a key role in delivery of doctorate programs in medicine, dental medicine and podiatric medicine

## Reporting structure

Reports to: Professor

## Your role

As the appointee you will, under broad direction, work on characterising L-type calcium channel function in expression systems and murine CRISPR mutant models. Reporting to Research Professor Livia Hool, you will work in the Cardiovascular Electrophysiology Laboratory in the School of Human Sciences.

## Your key responsibilities

Manage and conduct research experiments and activities and interpret results

Supervise and mentor staff and students in laboratory skills

Plan and develop a range of research activities

Conduct research reports and deliver seminar presentations

Publish academic papers and other scholarly outputs to a high international standard, and in accordance with the research expectations of the UWA School of Human Sciences and research funded by NHMRC

Apply for competitive travel grants and contribute to writing competitive research grants

Conference participation as required

Other duties as directed

## Your specific work capabilities (selection criteria)

PhD qualification in biophysics and/or physiology or pharmacology or molecular science or biochemistry

Substantial experience in patch-clamp measurement of ion channels, single channel and/or macroscopic currents, and pClamp software

Demonstrated experience in the supervision and mentoring of students and/or staff

Proficiency in a range of computing skills such as spreadsheets, databases, and statistics

Well-developed organisational skills and ability to set priorities and to meet deadlines

Ability to work independently, show initiative and work productively as part of a team

Excellent written and verbal communication skills

Knowledge of safety issues relating to the use of laboratory equipment and chemicals

Experience in animal physiology and biochemistry is desirable

Experience in molecular biology and preparation of mutant constructs and transfection of contructs in culture cell lines is desirable

Experience in animal physiology (measurement of cardiac contractile function by left ventricular catheterisation, echocardiography), and biochemistry (immunoblot and/or western blot technique, fluorescent detection of calcium and/or mitochondrial function) are desirable

## Special requirements (selection criteria)

National and/or international travel may be required

## Compliance

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

The University's Code of Conduct hr.uwa.edu.au/policies/policies/conduct/code/conduct

Inclusion and Diversity web.uwa.edu.au/inclusion-diversity

Safety, health and wellbeing safety.uwa.edu.au/