



MOLS8902

Molecular Sciences Research Experience

Full year 1, Weekday attendance, City 2020

Department of Molecular Sciences

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General Information

Unit convenor and teaching staff

Unit Co-convenor

Joanne Jamie

joanne.jamie@mq.edu.au

Contact via Contact via joanne.jamie@mq.edu.au, 98508283

4 Wally's Walk room 231

Unit Co-convenor

Shoba Ranganathan

shoba.ranganathan@mq.edu.au

Contact via shoba.ranganathan@mq.edu.au

4 Wally's Walk room 121

Credit points

10

Prerequisites

(Admission to MRadiopharmSc or MBiotech or MScience Innovation in Chemistry and Biomolecular Sciences) and (40cp at 8000 level or above) and permission by special approval

Corequisites

Co-badged status

Unit description

This unit provides students the opportunity to undertake a research project/internship supervised by leaders in the area of molecular sciences or radiopharmaceutical science. Students will acquire research skills, including literature searching, project planning, experimental design, data analysis and scientific communication. Interested students meeting the eligibility criteria should discuss their research interests with the unit convenor.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Conduct research to solve problems in areas relevant to molecular sciences or radiopharmaceutical science.

ULO2: Use laboratory skills common in molecular sciences or radiopharmaceutical science and conduct laboratory work in a safe and responsible manner.

ULO3: Collect, record and critically interpret their research findings.

ULO4: Critically analyse and interpret published literature of relevance to their research.

ULO5: Communicate in written and oral format their research findings to scientific audiences.

Assessment Tasks

Coronavirus (COVID-19) Update

Assessment details are no longer provided here as a result of changes due to the Coronavirus (COVID-19) pandemic.

Students should consult [iLearn](#) for revised unit information.

[Find out more about the Coronavirus \(COVID-19\) and potential impacts on staff and students](#)

General Assessment Information

Review and Research Plan

You will develop a literature review and research/internship plan for submission to your supervisor by week 10 of session 1. Feedback will be given on the report by the supervisor.

Research report

The **research report** will be examined by **two examiners**. Their marks will contribute (37.5% each). The **Supervisor** should contact potential examiners for their availability and provide their contact details to the unit convenor at the beginning of Academic Week 11 of session 2.

The MOLS8902 report can be submitted either as a **dissertation** (*Option 1*) or as a **scientific manuscript** suitable for publication (*Option 2*). Please discuss with your supervisor the most suitable format for your report.

The **Supervisor** will also provide to the unit convenor a mark /20% and accompanying report on the overall research potential of the student within MOLS8902. This will include marks toward the quality of research conducted by the student, and their ability to understand and communicate in a scientifically literate manner the research problem (incorporating a review of the relevant literature), the results and discussion of the research and coherent conclusions.

Seminar

A 20-min seminar presentation to the Department will be scheduled during the exam week of session 2, to give the student an opportunity to present research aims and outcomes.

Delivery and Resources

Coronavirus (COVID-19) Update

Any references to on-campus delivery below may no longer be relevant due to COVID-19.

Please check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

Delivery: This is a part-time full year unit, ie ~75 hr workload each semester.

Resources: IT facilities available in the research group, Department as well as the library will be available for literature review, word processing and data analysis. Additional facilities, such as access to specialist facilities or the use of specific instruments as required by the project will be organised by the supervisor.

Unit Schedule

Coronavirus (COVID-19) Update

The unit schedule/topics and any references to on-campus delivery below may no longer be relevant due to COVID-19. Please consult [iLearn](#) for latest details, and check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

This unit requires an average of 5-7 hours per week commitment spread over session 1 and 2. Laboratory work will be with supervision. Normal laboratory working hours are Mon-Fri: 9 am - 5 pm.

Lab safety induction must be undertaken **BEFORE** working in the research labs - contact your supervisor to organise this.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)

- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

Students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/student-policy-gateway) (<https://students.mq.edu.au/support/study/student-policy-gateway>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

This is a new unit.