



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Orientation and Welcome

Semester 1, 2024

Postgraduate Studies in
Magnetic Resonance Technology (MRT) &
Molecular Imaging Technology (MIT)

Acknowledgement of **Country**

The University of Queensland (UQ) acknowledges the Traditional Owners and their custodianship of the lands on which we meet.

We pay our respects to their Ancestors and their descendants, who continue cultural and spiritual connections to Country.

We recognise their valuable contributions to Australian and global society.



Housekeeping



Recording in
progress



Your video is off



Your microphone
is off



Ask questions via Q&A
function at the end of the
presentation

Centre for Advanced Imaging (CAI)

A University Centre which undertakes:

Research

- Diverse range of disciplines:
 - Biomedical, Computer Science, Engineering, Biology, Physics and Chemistry.
- over 50 HDR students.

Research service and engagement

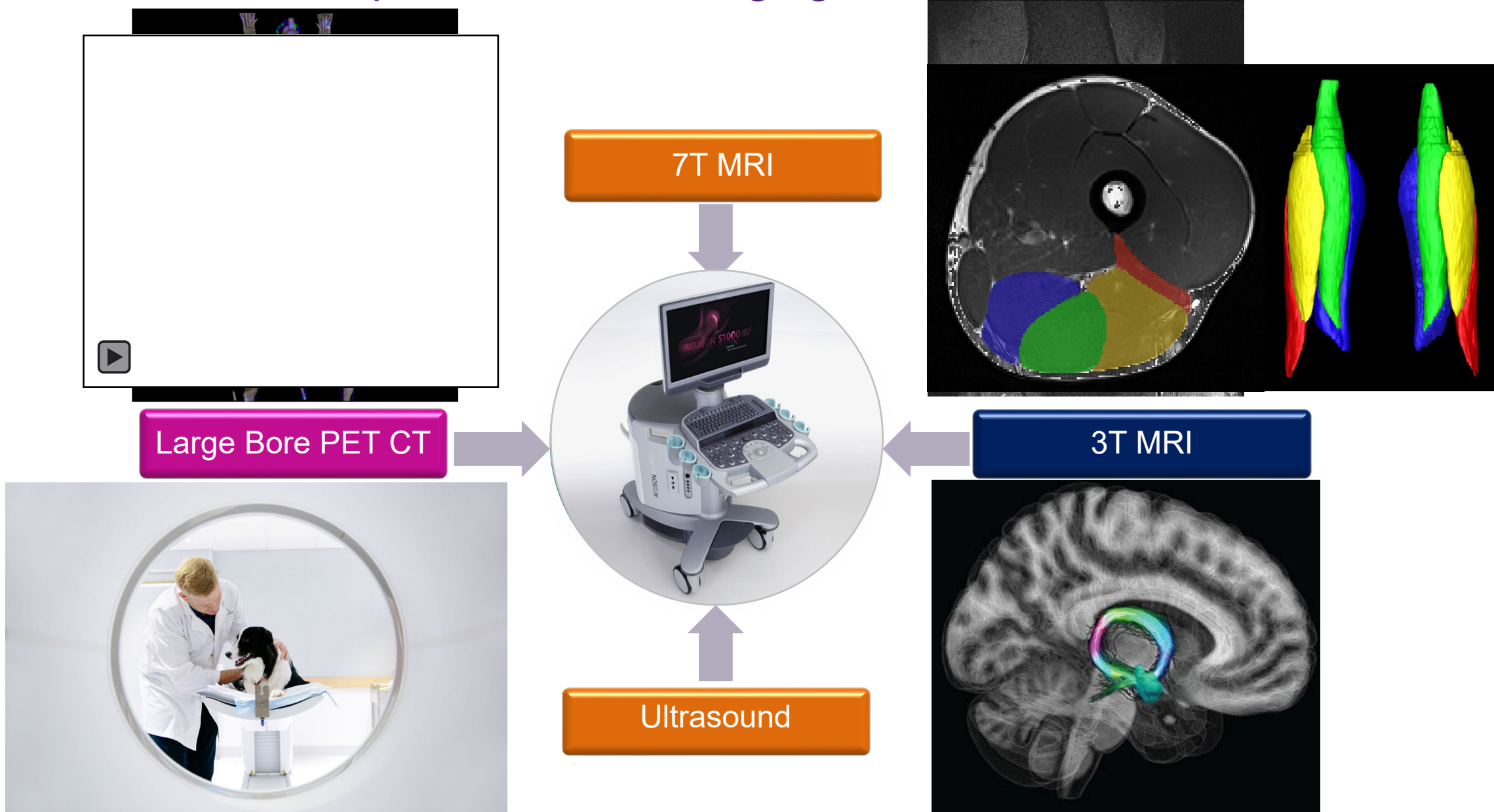
- Open facility access and provision of expertise to the UQ and wider research community.

Teaching and Learning

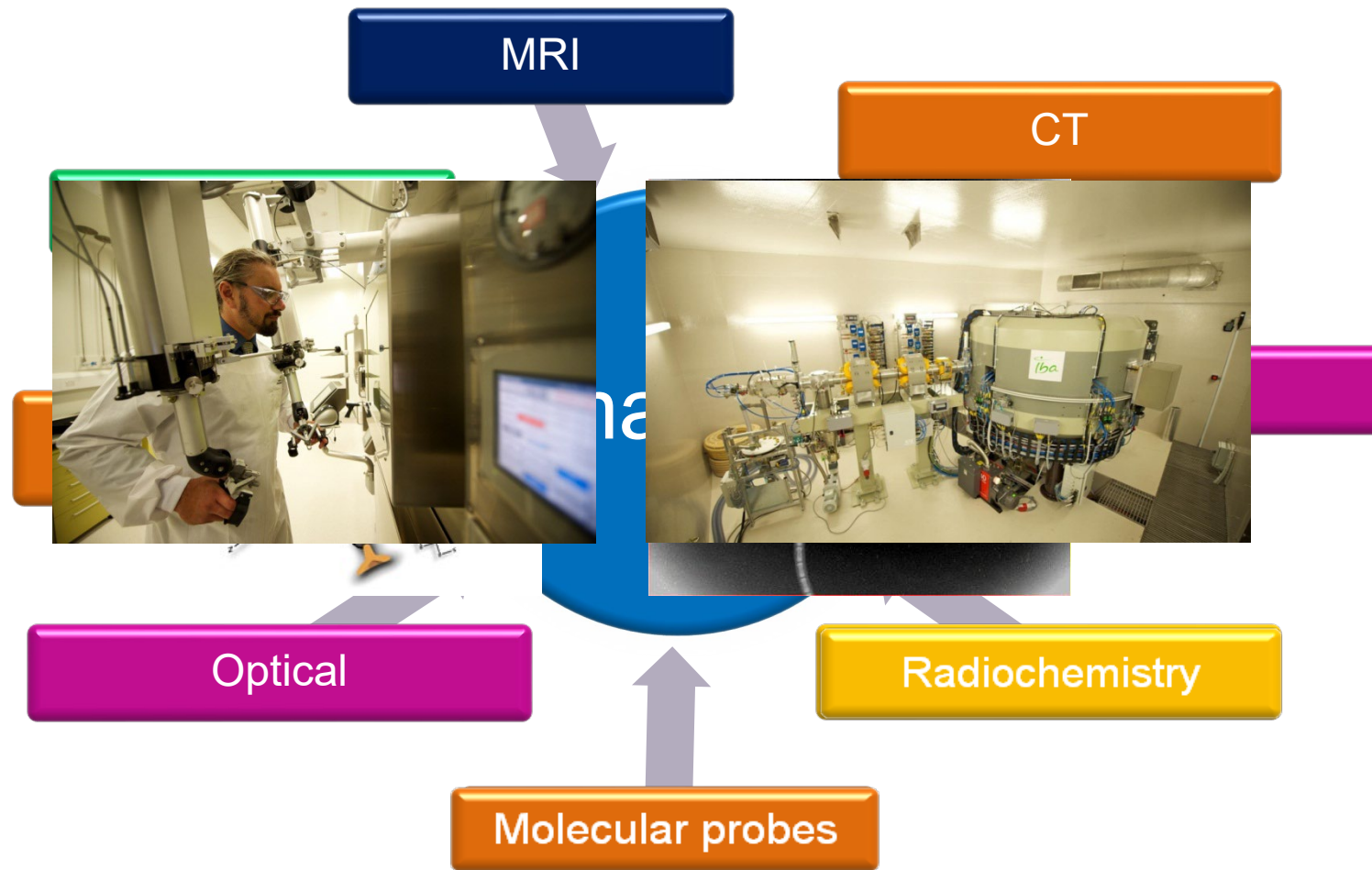
- Postgraduate coursework in
 - Magnetic Resonance Technology,
 - Molecular Imaging Technology
- summer/winter research internships.



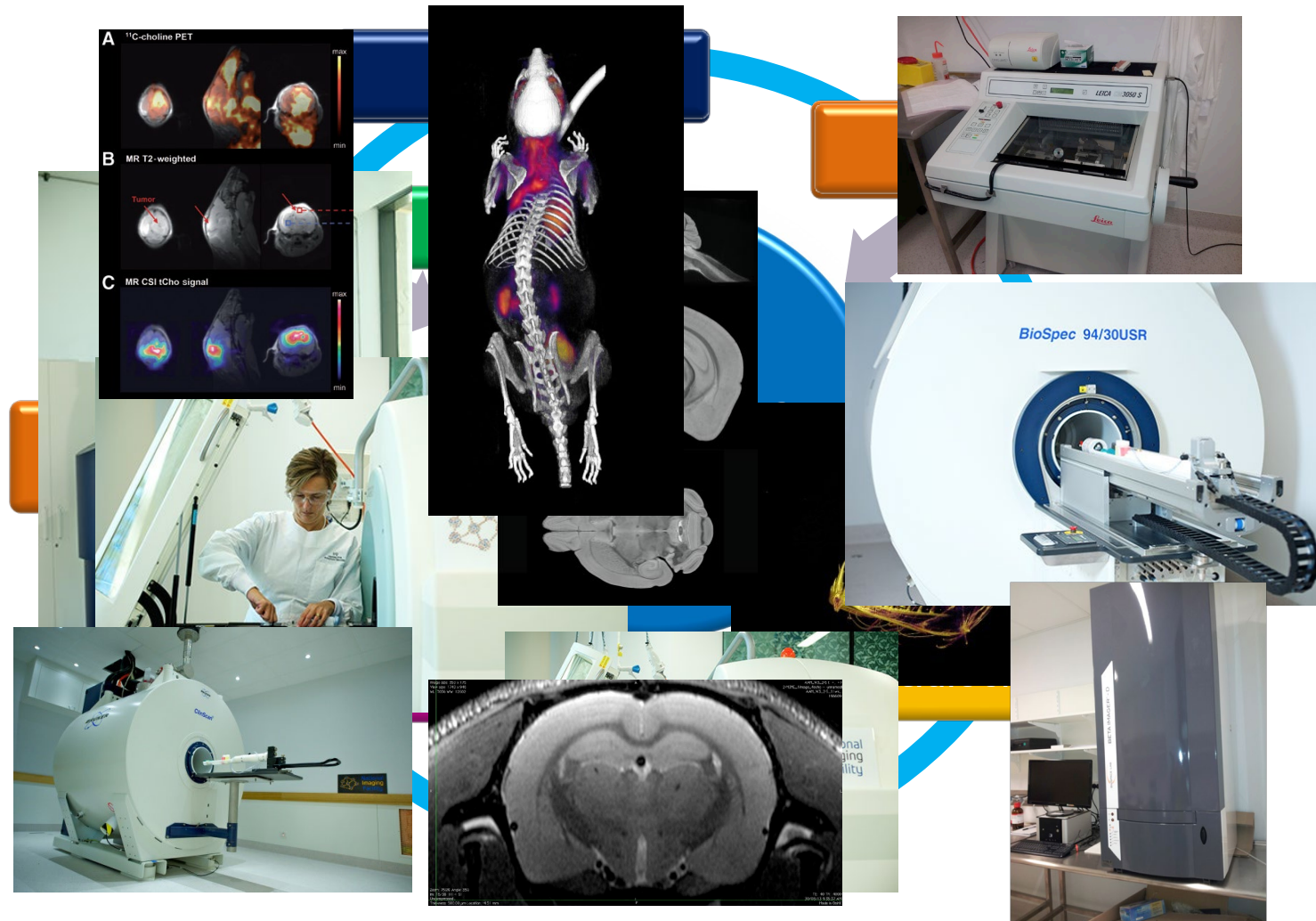
Human and Companion Animal Imaging Facility



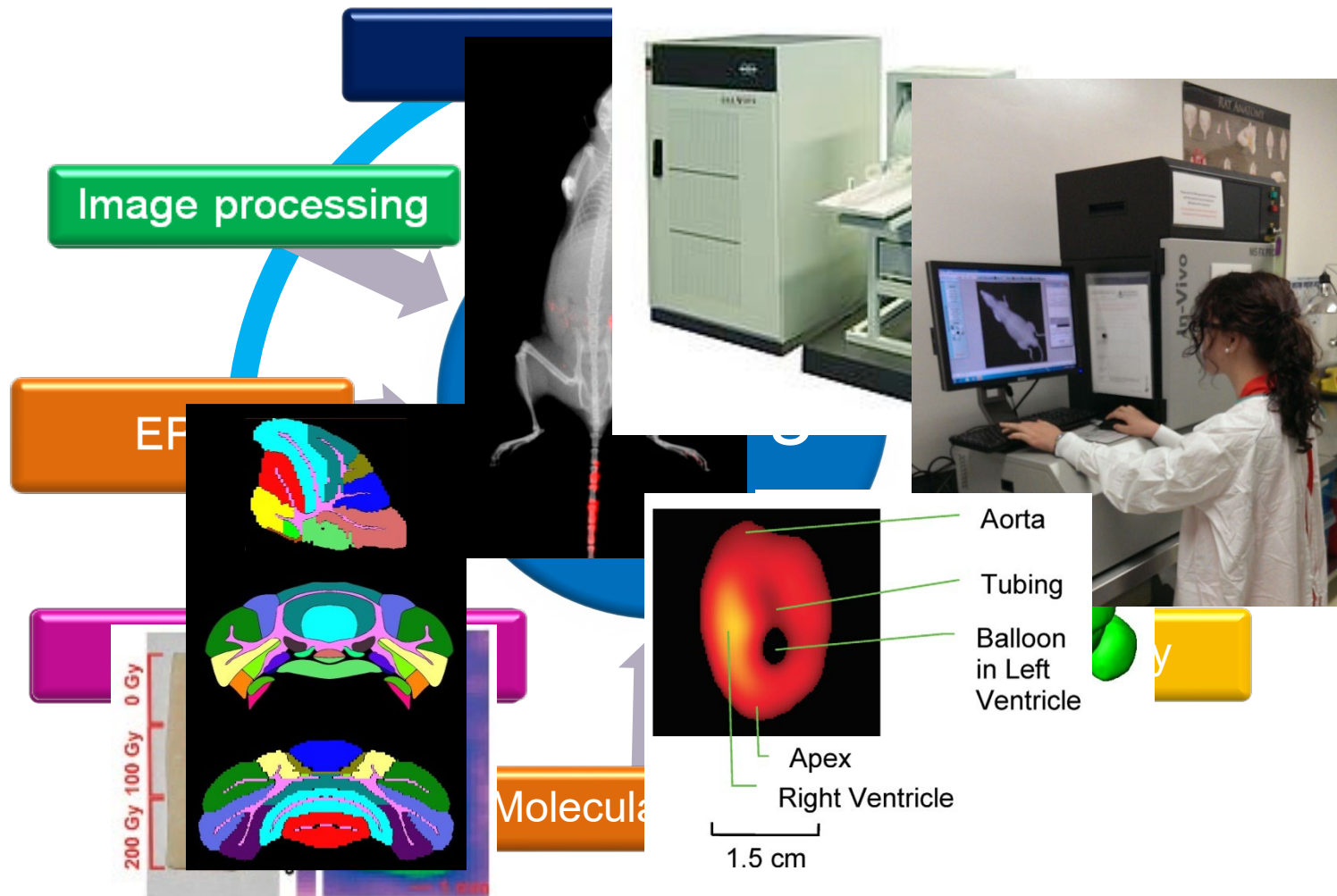
Pre-clinical Imaging Facilities



Pre-clinical Imaging Facilities



Pre-clinical Imaging Facilities



Spectroscopy Facilities

Nuclear Magnetic Resonance Spectroscopy (NMR)

High-resolution facilities

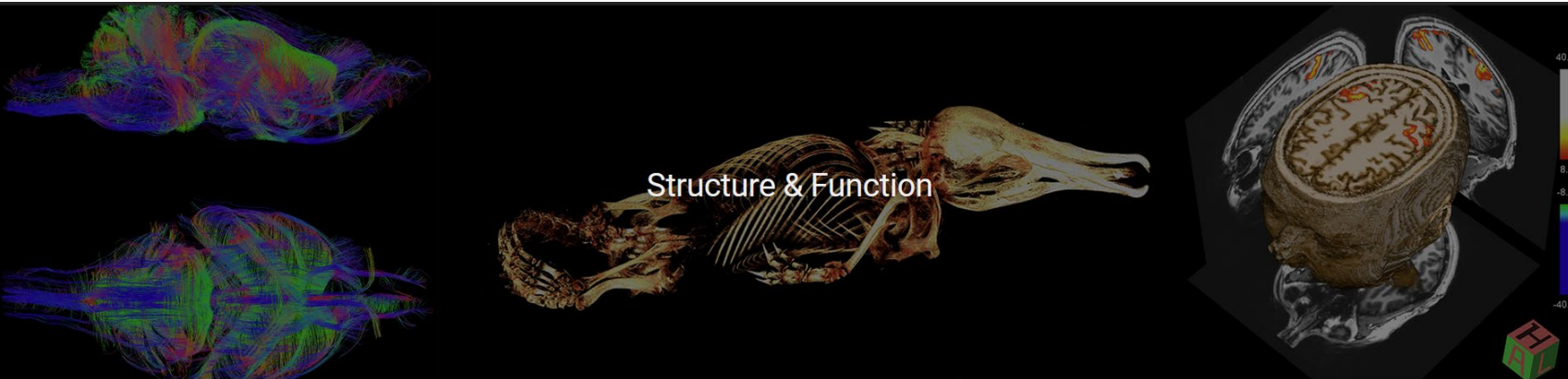
- 900MHz – Biomolecular applications
- 700MHz – Metabolomic applications

Other facilities

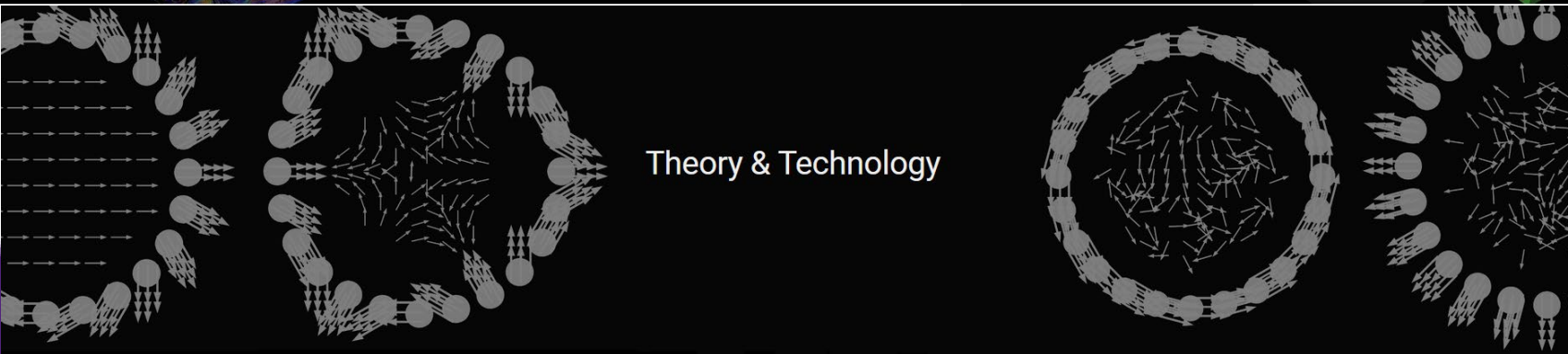
- 500MHz
- 300MHz Solid State – Materials science applications

Electron Paramagnetic Resonance (EPR) is used to study materials with unpaired electrons with applications in nanomaterials, materials science, structural biology and chemistry, food science, radiation dosimetry and medicine.

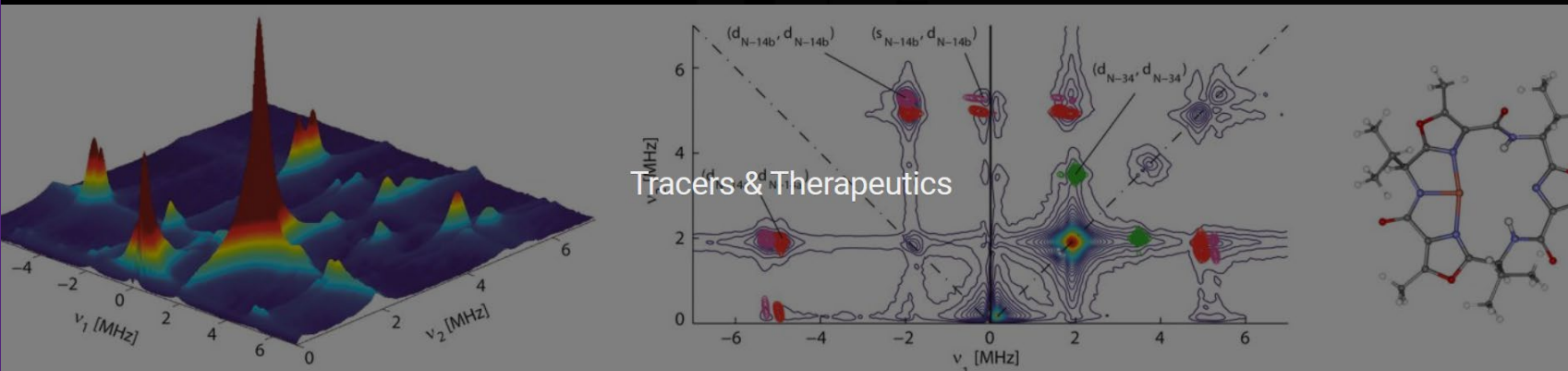




- Comparative Oncology
- Epilepsy
- Simultaneous PET-MRI
- Ultra-high field human MR
- Cancer Metabolism and Emerging Biomarkers



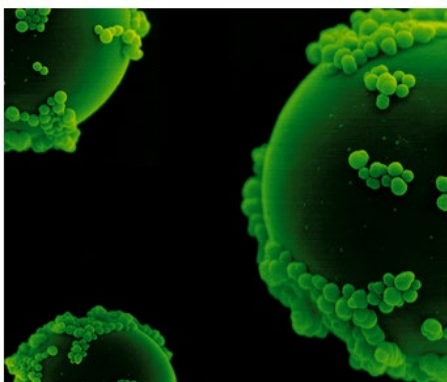
- MR Methods
- Systems Biology
- EPR imaging of free radicals in biology
- Ultra-low field MR



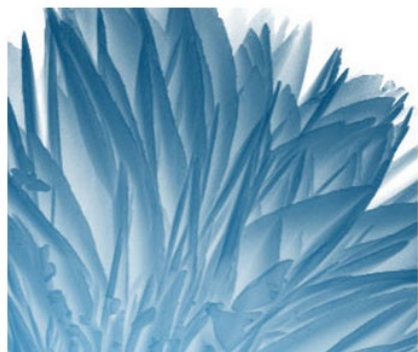
- Protein Structural Biology
- Natural product chemistry and biodiscovery
- Nanomedicine: development of multimodal molecular imaging probes for theranostics

Australian Institute for Bioengineering and Nanotechnology

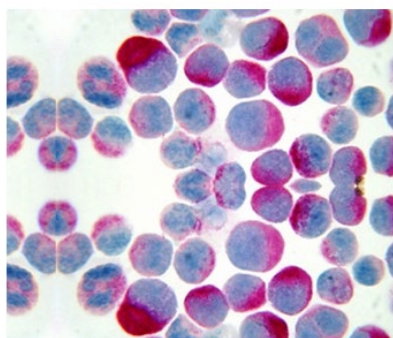
AIBN's Three Pillars of Research



Precision nanomedicine



Nano-engineered materials



Advanced biomanufacturing



Australian National
Fabrication Facility
(ANFF)



Centre for Microscopy
and Microanalysis

Centre for Microscopy and
Microanalysis
(CMM)



StemCore



Integrated Design
Environment for Advanced
biomanufacturing
(IDEA Bio)

Facilities



BASE
(nucleic-acids biomanufacture
facility)



National Biologics Facility -
Queensland Node
(NBF)



Australian Organoid Facility
(AOF)



Queensland Metabolomics
and Proteomics
(Q-MAP)



Protein Expression Facility
(PEF)



In vitro Genome
Engineering and Disease
Modelling Service

CAI Seminar Series typically held Tuesday Mornings

Please sign up to receive email
notifications.

enquiries@cai.uq.edu.au

AIBN Seminar Series is typically held 11 am Thursday

<https://aibn.uq.edu.au/event/1450/aibn-seminar-series>



CAI Education Leadership



**Academic Head of Teaching & Learning
MMIT Program Coordinator**

A/Prof Idriss Blakey
i.blakey@uq.edu.au



**Clinical Head of Teaching & Learning
MMRT Program Coordinator**

Chrystal Douflias
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Teaching Team for Semester 1, 2024



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Sarah Daniel
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Course Tutors and research project supervisors

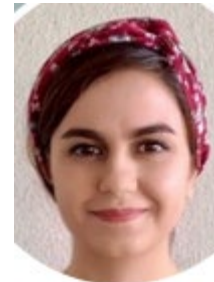


Chia-Yin wu

PhD Candidate

MRES7100

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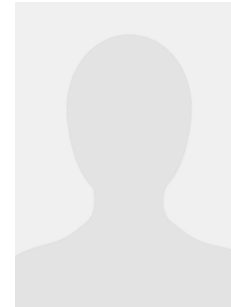


Zeinab Eftekhari

PhD Candidate

MRES7015

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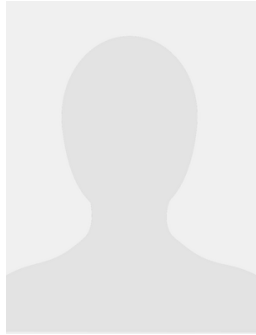
Azin Shokraei Fard

PhD Candidate

MRES7015

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Enquiries and Support



Administration is provided through team at School of Mathematics and Physics (SMP)

SMPstudentadmin@uq.edu.au

Reception for Centre for Advanced Imaging Building



Alani Winter

Reception

reception@cai.uq.edu.au



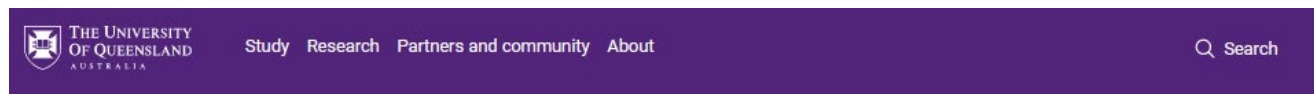
Rohan Osborne

Marketing and Engagement
Officer

Orientation week

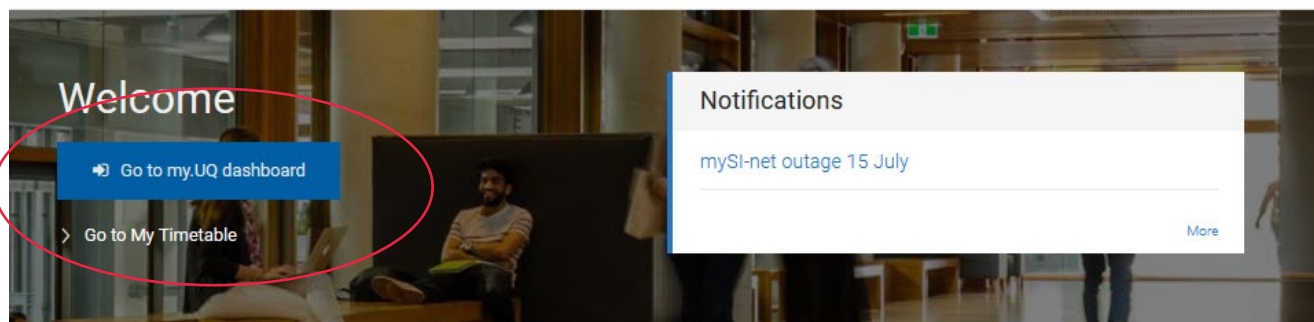
- “Getting Started” Orientation workshops are **compulsory** for International Students, and recommended for domestic students new to UQ: [Click here](#)
- Complete all the steps on the “Starting at UQ” page. [Click here](#)
- Organise a student ID card. Even if you are an external student, you can be required to have an ID card for examinations: [Click here](#)
- Begin your course (subject) enrolment on my.[SI-Net](#). **You must add at least one course in SI-Net prior to semester starting.**
- The University recommends **10 hours study time per week per #2 unit course**. This is the estimated amount of study required to be successful. Four #2 unit courses equates to a full time study load (40 hrs per week).
- **For domestic students** to pay for your studies using **FEE-HELP** (domestic student loans) please read more information [here](#) and then follow the instructions [here](#) to apply online.

my.UQ.edu.au Dashboard



my.UQ

Home Starting at UQ Programs and Courses Graduation Contact



Manage my program

Enrolment, choosing courses, assessment, fees, policies and rules, enrich your program

Manage my details

Update personal details, student ID cards, student visas, reset student password

Higher Degree by Research

Get started, manage my candidature, my thesis, scholarships and fees

Student support

Health and medical, counselling, accommodation, disability services, learning support, new students

Information technology

Internet, wifi and email access, accounts and passwords, software, printing and scanning, audiovisual, IT support

Campus shops and facilities

Food and drinks, retail shops, printing, banking, sporting fields, childcare, study spots

Maps, parking and transport

Campus maps, parking, public transport, safe cycling routes, intercampus bus, free safety bus

Social and events

Events, clubs and societies, social sport, professional networking

Careers and employability

Jobs, leadership, practical experience, global experiences, research programs

Graduation and leaving UQ

Degree certificates, academic dress, order of events, photographs, services for graduates

my.UQ Homepage

The screenshot shows the my.UQ homepage interface. On the left is a dark purple sidebar with the University of Queensland logo at the top. Below the logo are navigation options: Dashboard, Apps, My Requests, My Files, Email, Learn.UQ, and More... The 'Email' and 'Learn.UQ' options are circled in red. To the left of the sidebar, the word 'Blackboard' is written in red. The main content area is titled 'Apps' and contains a grid of application icons. The icons are arranged in three rows. The first row includes My Files, My Library Loans, My Requests, and My Settings. The second row includes Events, Food/Drinks, News, Notifications, Study Spots, and Transport. The third row includes Email, Learn.UQ, Library, mySI-net, Search, and UQ Contacts. The 'mySI-net' icon is circled in red.

mySI-net Homepage

The screenshot displays the mySI-net Student homepage. At the top left is the University of Queensland logo. The user is logged in as 'mySI-net Student'. The main content area is a grid of 12 tiles:

- Student Account:** Displays 'You have no outstanding charges.'
- Tasks and Messages:** Shows 0 Tasks and 0 Actions.
- mySI-net Requests:** Contains an icon of a document with a pencil.
- Personal Details:** Contains an icon of a person with a pencil.
- Enrolments & Timetables:** Contains a calendar icon with a pencil, which is circled in red.
- Financials:** Contains an icon of a banknote and coins.
- Graduation:** Contains a graduation cap icon.
- mySI-net Placements:** Contains a location pin icon.
- Higher Degree Research:** Contains an icon of a document with a graduation cap.
- Impersonate Functions:** Contains an icon of a person with a gear.
- Impersonate Student:** Displays the student ID '45396058' and the name 'Brittany Smith'.

Enrolling in courses in SI-Net





mySI-net Enrol and Timetables

- Enrolment Summary
- Program Summary
- Plans
- Study Load
- Aggregated Reports
- My Timetable Home Page
- Course & Timetable Info
- View Grades
- Studies Report
- Enrolment Status Report
- UQ Advantage Award History

Semester 1, 2019

Master of Magnetic Resonance Technology


Standard Semester (25/02/2019 - 22/06/2019; census date 31/03/2019)

Course	Course Title	Units	Campus	Location	Mode
MRES7003 	MR Safety & Monitoring	2	St Lucia	St Lucia	Internal
MRES7009 	MR Spectroscopy	2	St Lucia	St Lucia	Internal
MRES7014 	Musculoskeletal MRI	2	St Lucia	St Lucia	Internal
MRES7100 	MRI Fundamentals	2	St Lucia	St Lucia	Internal

Semester 2, 2019

Master of Magnetic Resonance Technology

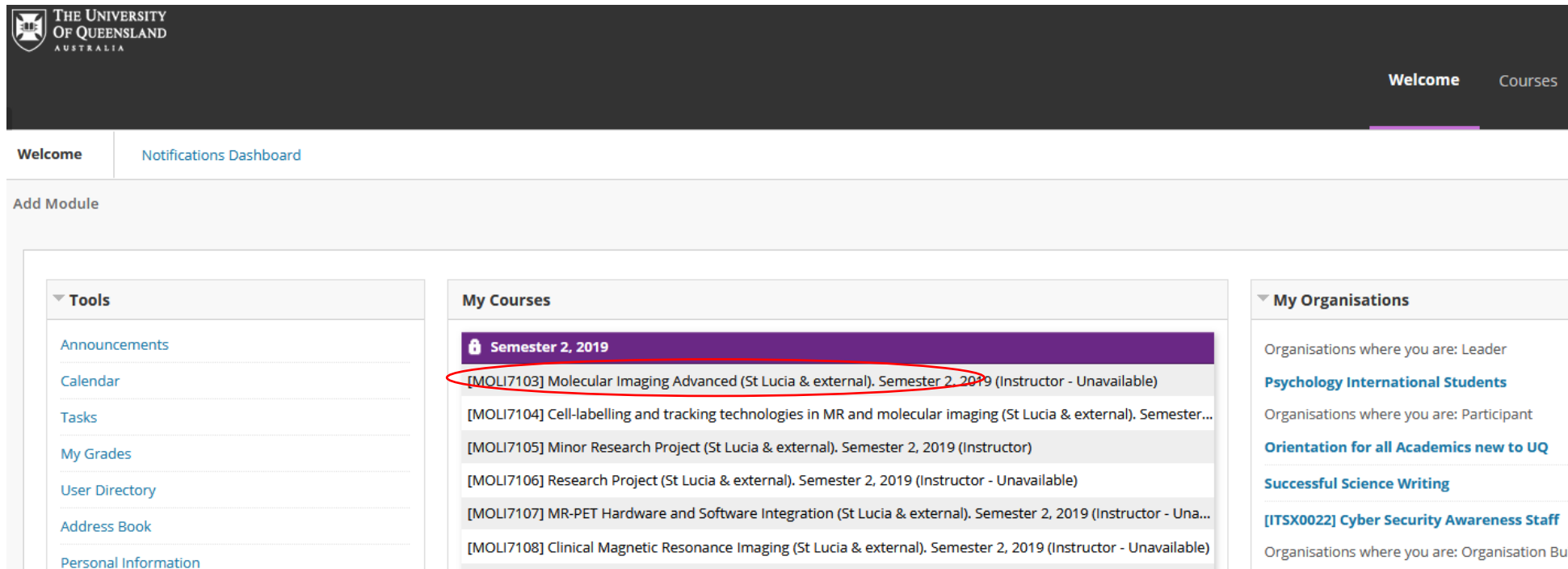
Standard Semester (22/07/2019 - 16/11/2019; census date 31/08/2019)

Course	Course Title	Units	Campus	Location	Mode
MRES7002 	Magnetic Resonance Instrumentation	2	St Lucia	St Lucia	Internal

IMPORTANT!!!

Please enrol in the correct study mode because this can impact on the exam arrangements.

Learn.UQ - Blackboard Homepage



The screenshot shows the Blackboard Learn.UQ homepage. At the top left is the University of Queensland Australia logo. The top right navigation bar includes 'Welcome' and 'Courses'. Below this is a secondary navigation bar with 'Welcome' and 'Notifications Dashboard'. The main content area is titled 'Add Module' and is divided into three columns:

- Tools:** A list of links including Announcements, Calendar, Tasks, My Grades, User Directory, Address Book, and Personal Information.
- My Courses:** A list of courses for Semester 2, 2019. The first course, [MOLI7103] Molecular Imaging Advanced (St Lucia & external), Semester 2, 2019 (Instructor - Unavailable), is highlighted with a purple bar and circled in red. Other courses listed include [MOLI7104] Cell-labelling and tracking technologies in MR and molecular imaging, [MOLI7105] Minor Research Project, [MOLI7106] Research Project, [MOLI7107] MR-PET Hardware and Software Integration, and [MOLI7108] Clinical Magnetic Resonance Imaging.
- My Organisations:** A list of organizations where the user is a Leader, Participant, or Organisation Builder. Key organizations include Psychology International Students, Orientation for all Academics new to UQ, and [ITSX0022] Cyber Security Awareness Staff.

Permission or Error messages when enrolling?

Typically, these are courses that require a prerequisite or for research project courses which require an appropriate research project and supervisor

Email smp.studentadmin@uq.edu.au to remove the restrictions and request permissions

ERROR your attempt to enrol in MRES7100 has failed. Please see the error message below and if necessary contact the school / faculty.

Error Details:

This course has restrictions that you have not satisfied or you have completed an equivalent course in a previous semester. Please check the course information on Courses and Programs for information on restrictions, prerequisites and incompatibles. (14640,18)

Error Details:

Consent is needed to enroll in the class. The add transaction was not processed. (14640,38)

ERROR your attempt to enrol in MRES7100 has failed. Please see the error message below and if necessary contact the school / faculty.

Error Details:

The class falls outside of the career of study. (14640,133)

During the Semester

Semester 1 2024 starts on **Monday 19th February**

- **Compulsory** to complete online [Academic Integrity Tutorial](#).
 - Login to blackboard (Learn.UQ via "[My.UQ](#)".)
- Due dates
 - Part A by 31 March 2024
 - Part B by 24 May 2024 (end of week 13).

Blackboard (Learn.UQ) courses websites may not be accessible until start of semester.

Check your UQ Email regularly.

- All official communication will be sent to this account. –
 - e.g. deadlines for payment of fees, course enrolment dates, extension requests, graduation paperwork and so on.
- You can stop [unwanted Blackboard email notifications](#):

Any admin questions?

Email smp.studentadmin@uq.edu.au

- **Include your student number and course code** in your email.



Program Lectures/Tutorials

- Lectures/tutorials will be face-to-face and/or via zoom
 - Face to Face sessions held in Building 57 room 207 unless otherwise noted.
 - Sessions will be recorded and posted on blackboard
- The timetable will be posted on the course Blackboard sites (Learning Resources tab)
 - only courses with face-to-face sessions will be listed.

Important Dates

<http://www.uq.edu.au/startingatuq/important-dates>

Monday 19th February – Semester Starts:

-You must add at least one course on SI-Net prior to semester starting in order to avoid late fees.

Friday 1st of March – Self service enrolment ends:

-Final date for addition of courses or alteration of enrolment. Late fees will apply to add courses after this date.

Sunday 31st of March – Semester 1 Census Date (Financial implications locked in):

- After this date, you can no longer add any course (unless exceptional circumstances apply).

- After this date, you can drop courses without academic penalty, but you will still be liable for fees.

Tuesday 30th April – Semester 1 (Academic implications locked in):

- last date to drop courses or cancel enrolment without academic penalty

Final Exams

Most courses have online non-invigilated exams

- Read the instructions
- Tips
 - Ensure you are using a stable link to the internet
 - take screenshots to show evidence of any technical issues faced
 - email the technical support email listed on the exam instructions and keep copies of your email and response.

Extensions

Assessment Extensions

You must complete the online [extension request form](#),

- an email request is not sufficient.

You must provide [supporting documentation](#) for your extension request.

Deferred Examinations

Students can apply for a [deferred examination](#) under two criteria:

(i) Exceptional and Unavoidable Circumstances, or (ii) Discretionary Deferral.

- i. You are eligible to apply for a deferred examination if you can provide evidence of a medical condition, or other exceptional and unavoidable circumstances.
- ii. You are eligible to apply for a one-off discretionary deferred exam if your situation is personally inconvenient. Note that each student can apply for only one discretionary exam during the lifetime of their enrolment.

Applying for an assessment extension

[Home](#) / [Information and services](#) / [Manage my program](#) / [Exams and assessment](#)

[1. Overview](#)

[3. How to apply](#)

[2. Acceptable reasons for an extension](#)

3. How to apply

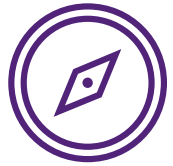
Read sections 5 and 6 of your course profile before applying for an extension.

Request an extension

Your tutor or the relevant person will notify you of the outcome of your request.

[Request now](#)

Enquiry Where should I go?



Orientation

**Science Student
Experience Team**

studentexperience@science.uq.edu.au



Study Plan

Refer to Study Planner

<https://planner.science.uq.edu.au/>

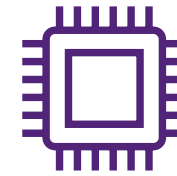


Course

**School of Maths and
Physics**

Timetable, permission to
enrol etc

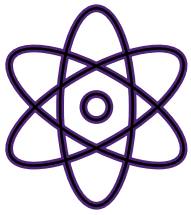
smp.studentadmin@uq.edu.au



Program

Faculty of Science

Progress check, credit etc



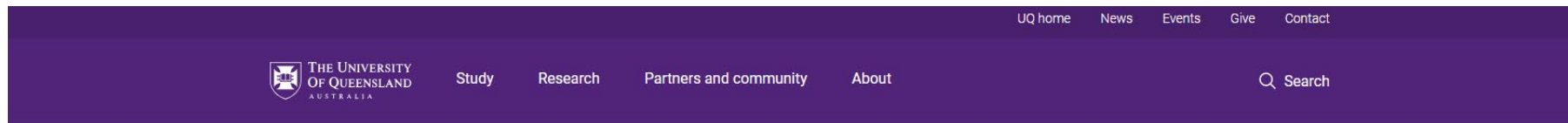
Faculty of Science Orientation

<https://science.uq.edu.au/student-support/orientation>



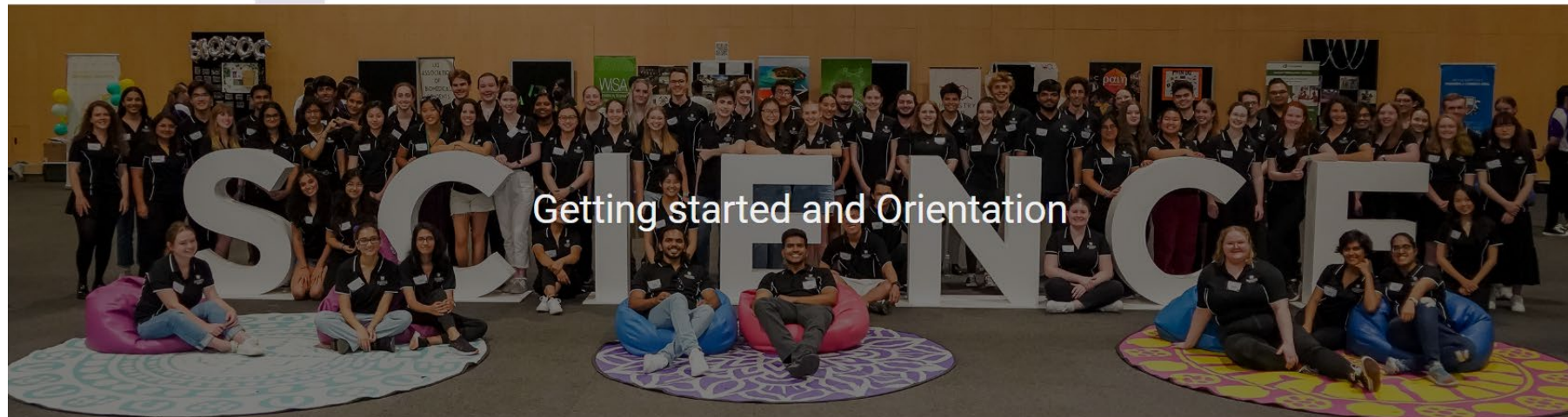
UQ Orientation

<https://my.uq.edu.au/information-and-services/student-support/orientation>



Faculty of Science

[Home](#) [About](#) [Study](#) [Research](#) [Community](#) [Student support](#) [Contact](#)



Getting started and Orientation

Welcome to the Faculty of Science

How to prepare for Orientation Week (O-Week) 12–16 February:

1. Work through [Starting at UQ](#) to get set up for the semester. Use the [Science Study Planner](#) to help you choose your courses.

A welcome message from UQ Science

Student Support Information

 Faculty of Science Student Team <https://science.uq.edu.au/student-support>

 UQ Student Health and Wellbeing <https://science.uq.edu.au/student-support>

 Study Skills <https://my.uq.edu.au/information-and-services/student-support/study-skills>

 Contact Student Life <https://my.uq.edu.au/contact/student-life>

 Careers and Employability <https://employability.uq.edu.au/>

Centre for Advanced Imaging Postgraduate Coursework Programs

Magnetic Resonance Technology (MRT) Programs

[Study planner link](#) for MRT programs

- Graduate Certificate MRT
- Graduate Diploma MRT
- Master MRT

Master of Molecular Imaging Technology (MMIT)

[Study planner link](#) for MMIT programs

Study planner for: - Graduate Certificate MRT

Step 1 Complete the following study plan

Year 1				
1 st Semester (July – Nov) Semester 2	MRES7002 Magnetic Resonance Instrumentation 2 units – Core Course	MRES7003 MR Safety & Monitoring 2 units – Core Course	MRES7100 Magnetic Resonance Imaging: Fundamentals 2 units – Core Course	MRES7400 MRI Pulse Sequence Construction & Image Contrast 2 units – Core Course

Study planner for: - Graduate Diploma MRT

Semester 1 commencement

Step 1 Start with the base study plan outlining Core Courses

1 st Semester (Feb – Jun) Semester 1	MRES7003 MR Safety & Monitoring 2 units – Core Course	MRES7100 Magnetic Resonance Imaging: Fundamentals 2 units – Core Course	MRES7400 MRI Pulse Sequence Construction & Image Contrast 2 units – Core Course	Option 2 units – Program Elective Course
	MRES7002 Magnetic Resonance Instrumentation 2 units – Core Course	Option 4 units – Research Project Course OR Program Elective Courses		Option 2 units – Program Elective Course

Research option

4 Units MRES7015

Core Courses

MRES7002 can also be take in the 1st semester

Magnetic Resonance Technology Programs

Study planners for: - Master of Magnetic Resonance Technology

Semester 1 commencement

Step 1 Start with the base study plan outlining Core Courses and Research Project Courses

Year 1				
1 st Semester (Feb – Jun) Semester 1	MRES7003 MR Safety & Monitoring 2 units – Core Course	MRES7100 Magnetic Resonance Imaging: Fundamentals 2 units – Core Course	MRES7400 MRI Pulse Sequence Construction & Image Contrast 2 units – Core Course	Option 2 units – Program Elective Course
2 nd Semester (July – Nov) Semester 2	MRES7002 Magnetic Resonance Instrumentation 2 units – Core Course	Option 2 units – Program Elective Course	Option 2 units – Program Elective Course	Option 2 units – Program Elective Course
3 rd Semester (Feb – Jun) Semester 1	Option 2 units – Research Project Courses*	Option 2 units – Research Project Courses*	Option 2 units – Research Project Courses* OR Program Elective Course	Option 2 units – Program Elective Course

Research options

4 Units MRES7015

Or

6 unit MRES70xx Advanced Research Project*

*Note that external mode requires a 2 week residential component at St Lucia campus and approval from the Director of T and L.

Master of Molecular Imaging Technology (5692)

Recommended Full-time Study Plan

Semester 1 commencement

Step 1 Start with the base study plan outlining Core Courses and Research Project Courses

Year 1				
1 st Semester (Feb – Jun) Semester 1	MOLI7101 Molecular Targets & Imaging Probes 2 units – Core Course	MOLI7102 Clinical Molecular Imaging 2 units – Core Course	MOLI7109 Radiotracer Based Imaging 2 units – Core Course	MRES7100 Magnetic Resonance Imaging: Fundamentals 2 units – Core Course
2 nd Semester (July – Nov) Semester 2	Option 2 units – Program Elective Course	Option 2 units – Program Elective Course	Option 2 units – Program Elective Course	Option 2 units – Program Elective Course
3 rd Semester (Feb – Jun) Semester 1	Option 2 units – Research Project Course	Option 2 units – Research Project Course	Option 2 units – Research Project Course* OR Program Elective Course	Option 2 units – Program Elective Course

2 unit options

MOLI7103 Molecular Imaging Advanced
 MOLI7104 Cell-labelling and tracking technologies
 MOLI7105 Minor Research Project
 MOLI7107 MR-PET Hardware and Software Integration
 MOLI7108 Clinical Magnetic Resonance Imaging
 MRES7009 MRI Spectroscopy & Applications
 STAT7120 Analysis of Scientific Data

https://my.uq.edu.au/programs-courses/program_list.html?acad_prog=5692

Research options

4 Units MRES7015

Or

6 unit MRES70xx Advanced Research Project*

*Note that external mode requires a 2 week residential component at St Lucia campus and approval from the Director of T and L.

Pre-requisites to consider when planning your course enrolment

MRT program courses

MRES Courses	Pre-requisites	Semester	
MRES7100 MRI Fundmtls	NONE	1, 2	Core
MRES7002 MR Instrmntn	NONE	1, 2	Core
MRES7003 MRI Safety	NONE	1, 2	Core
MRES7400 Pulse Seq	MRES7100	1, 2	Core
MRES7005 Fast Imaging	(MRES7100)	1, 2	Elective
MRES7007 Dif Perf	(MRES7100)	1	Elective
MRES7009 Spectro	NONE	1	Elective
MRES7010 Minor Rsrch	4x core courses from Part A and Permission	1, 2	Research
MRES7013 Brain Spine	NONE	2	Elective
MRES7014 MSK	NONE	1	Elective
MRES7015 Clinical Project	4x core courses from Part A and Permission	1, 2	Research
MRES7016 Cardiac and vascular	MRES7100, MRES7004, MRES7005.	2	Elective
MRES7017 Breast	NONE	2	Elective
MRES7018/19/20/21/22	(MRES7100 or MOLI7101) and Permission	1, 2	Research
MRES7025 Clinical Prac	4x core courses from Part A and Permission	1, 2	elective

MMIT courses

MOLI Courses	Pre-requisites	Semester
MOLI7101 Targets Probes	NONE	1
MOLI7102 Clinical MI	NONE	1
MOLI7103 MI Adv	MOLI7109 + MOLI7101	2
MOLI7104 Label Track	MOLI7109 + MOLI7101	2
MRES7015 Clinical Project	4x core courses from Part A and Permission	1, 2
MOLI7107 Hardwr Softwr	Restricted MMIT students	1, 2
MOLI7108 Clinical MRI	Restricted MMIT students	1, 2
MOLI7109	NONE	1
MRES7018/19/20/21/22	(MRES7100 or MOLI7101) and Permission	1, 2



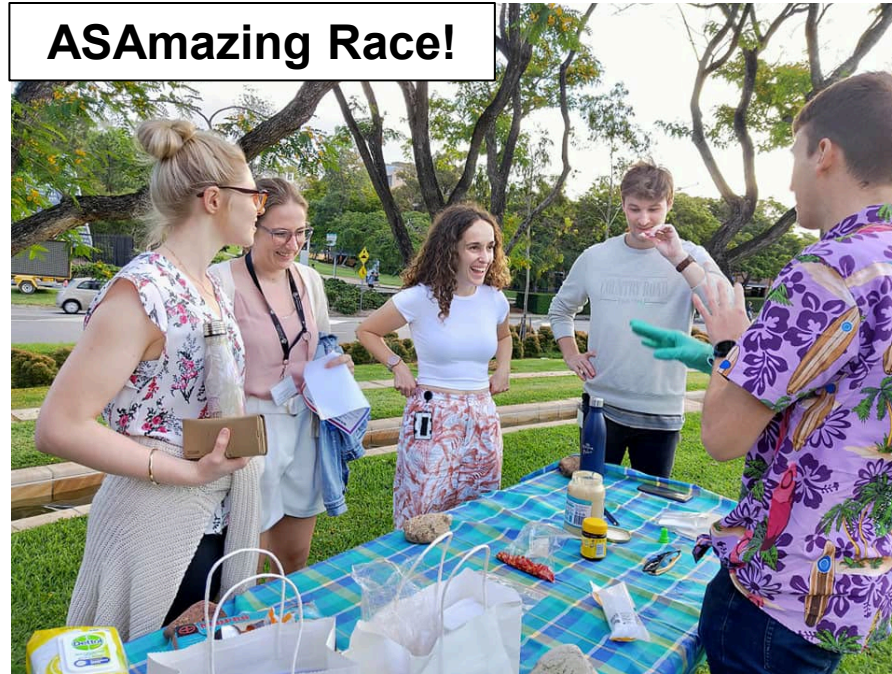
asa

aibn students association

What to expect

- Monthly mixers
- Inter-institute sports events
- Board games and trivia nights
- OHS meetings
- R U okay day hot brekky
- ASAmazing race

ASAmazing Race!



AIBN Students
Association (ASA)



Holi Celebrations



Inter-institute Football

Questions





THE UNIVERSITY
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CREATE CHANGE

Thank you

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