

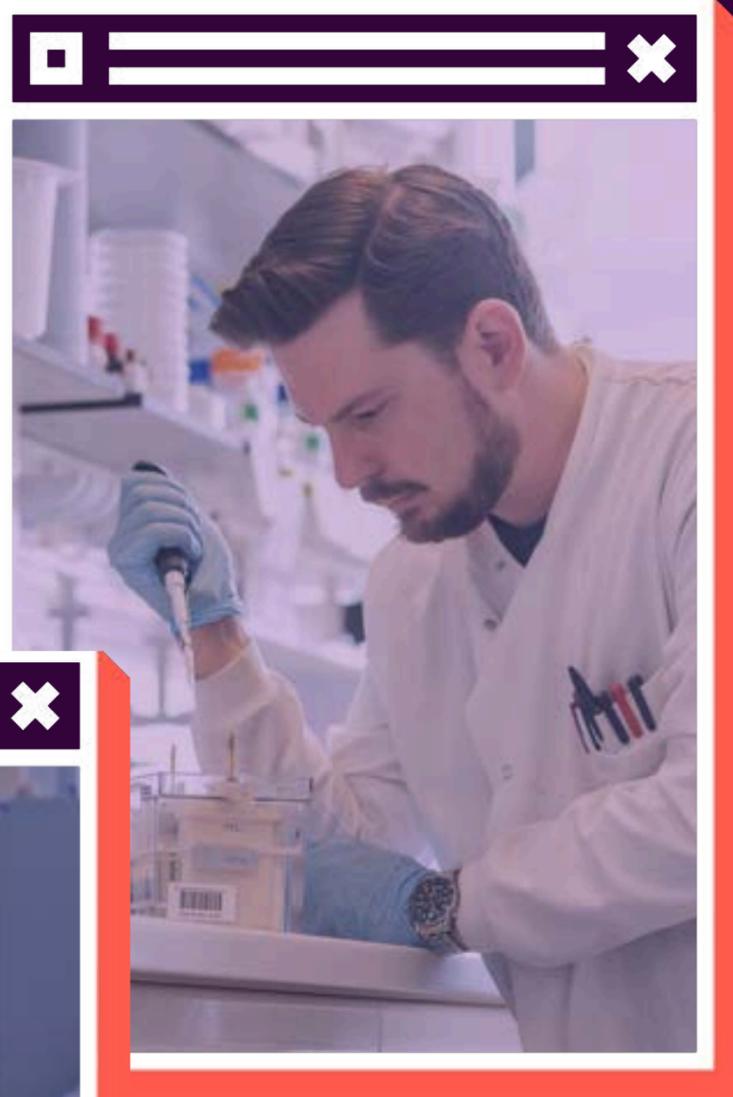


The University of Manchester

FACULTY OF BIOLOGY, MEDICINE AND HEALTH  
POSTGRADUATE RESEARCH

# 'THE POSTGRADUATE RESEARCH APPLICANT JOURNEY FOR INTERNATIONAL STUDENTS'

29 OCTOBER 2025



# TODAY'S PANEL



**CHRISTIAN WARD**

Host; Marketing and  
Recruitment Officer



**JAMES LISTER**

Recruitment and  
Admissions Officer



**LISHAN**

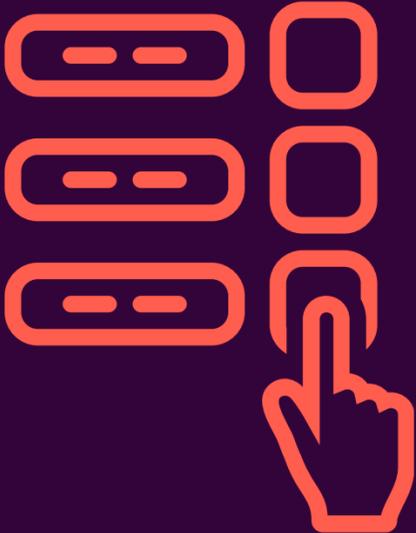
Postgraduate researcher  
from China



**MARYAM**

Postgraduate researcher  
from Nigeria

# ***POLL***

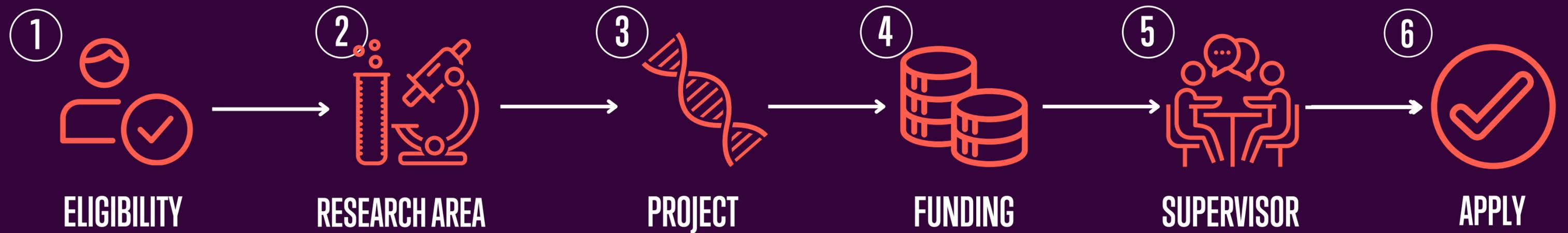


**WHAT STAGE OF THE PGR JOURNEY ARE YOU AT?**

**LET US KNOW VIA THE POLL**



# *THE POSTGRADUATE RESEARCH APPLICATION PROCESS*



[UOM.LINK/BMH-PGR-WEBINAR-MORE](https://uom.link/bmh-pgr-webinar-more)

# IS PGR FOR YOU?

[UOM.LINK/BMH-PGR-WEBINAR-START](https://uom.link/bmh-pgr-webinar-start)



## POSTGRADUATE RESEARCH IS FOR YOU IF:

- You're fascinated by an area of your field
- You have research experience
- You're prepared to spend several years researching that one specific area
- You're driven and determined to push boundaries
- You possess the resilience to persevere through challenges
- You're interested in a career in research, academia or industry related to your subject

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## POSTGRADUATE RESEARCH ISN'T FOR YOU IF:

- You have limited research experience
- You're not certain that academia or research is for you
- You don't have a passion for research or a specific area
- You're putting off choosing a career direction
- You just want to get another qualification
- You're keen to begin your career and earn a full-time salary as soon as possible

1 ELIGIBILITY

2 RESEARCH AREA

3 PROJECT

4 FUNDING

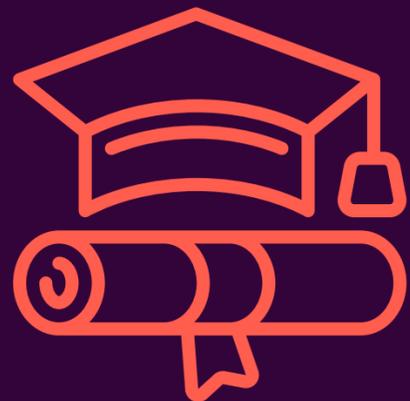
5 SUPERVISOR

6 APPLYING

7 AFTER YOU APPLY

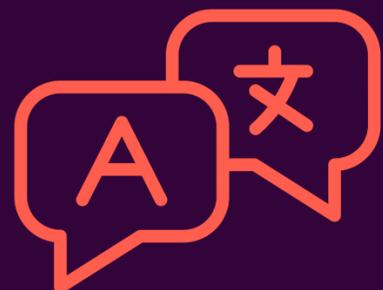
# STANDARD ENTRY REQUIREMENTS

[UOM.LINK/BMH-PGR-WEBINAR-START](https://uom.link/bmh-pgr-webinar-start)



## Academic entry requirements

- Upper Second class degree (or international equivalent)
- or Lower Second class degree (or international equivalent) if you have:
  - A Master's merit or distinction
  - Considerable previous research experience
- Standard entry reqs. - may vary by programme/project



## Language requirements

- Minimum IELTS score of 6.5-7.0 overall

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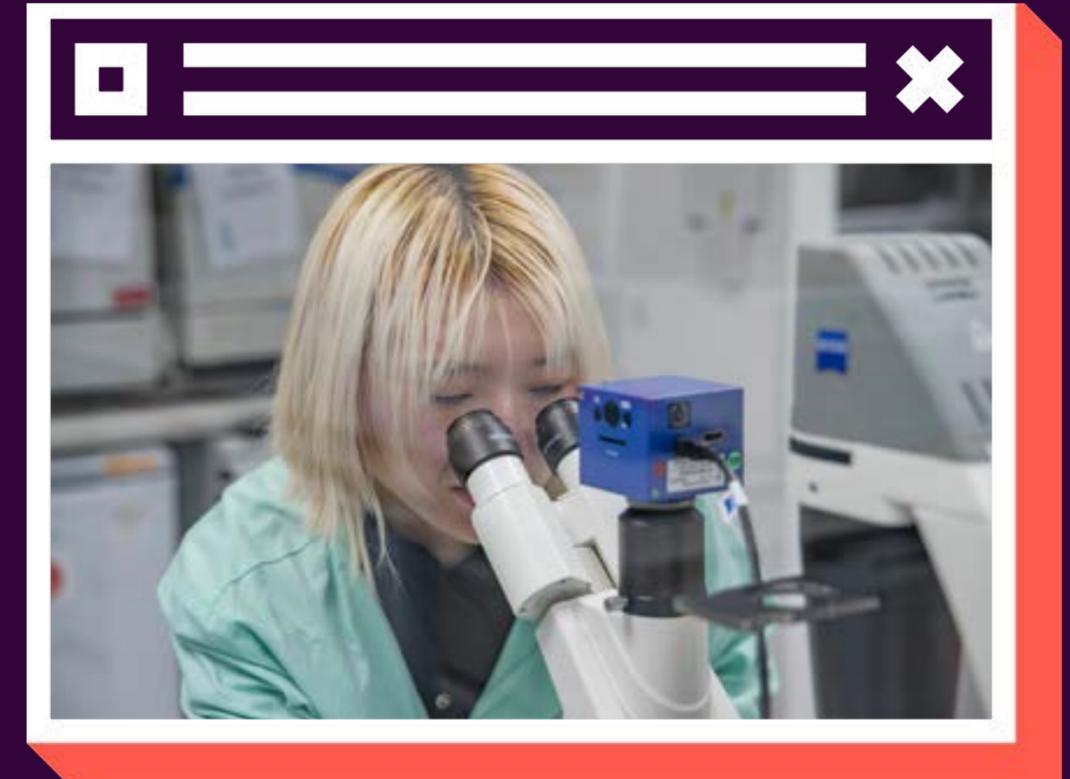
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# SKILLS AND CHARACTERISTICS

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- **Curious:**
  - Constant desire to learn more
- **Passionate:**
  - Strong opinions and beliefs on your area of research
- **Tenacious:**
  - Determination to complete tasks, however complex or long they take
- **Strong communication skills:**
  - Ability to speak, listen, observe, empathise with others effectively
- **Problem solver:**
  - Love to resolve issues with critical thinking and analytical skills
- **Demonstrable research potential:**
  - May have had work published, undertaken research or completed an extended project like a dissertation



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# RESEARCH EXPERIENCE

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# DISCOVER YOUR PASSION

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## FACULTY OF BIOLOGY, MEDICINE AND HEALTH

### SCHOOL OF BIOLOGICAL SCIENCES

- Biochemistry
- Bioinformatics
- Biotechnology
- Cell Biology
- Cell Matrix Research
- Cognitive Neuroscience
- Developmental Biology
- Environmental Biology
- Evolutionary Biology
- Genetics
- Immunology
- Infectious Diseases
- Microbiology
- Molecular Biology
- Neuroscience
- Physiology
- Plant Science
- Stem Cell Research
- Structural Biology

### SCHOOL OF MEDICAL SCIENCES

- Basic Dental Sciences
- Cancer Sciences
- Cardiovascular Sciences
- Clinical Dentistry
- Dental Health Sciences
- Dermatological Sciences
- Endocrinology and Diabetes
- Endodontics
- Gastroenterology
- Genomics
- Inflammation Sciences
- Medical Genetics
- Medical Microbiology
- Medical Mycology
- Medical Virology
- Medicine
- Musculoskeletal Sciences
- Nutrition
- Ophthalmology
- Oral and Maxillofacial Surgery
- Orthodontics
- Prosthodontics
- Psychiatry
- Reproductive Sciences

### SCHOOL OF HEALTH SCIENCES

- Audiology
- Biomedical Imaging Sciences
- Biostatistics
- Clinical Psychology
- Drug Design, Development and Delivery
- Epidemiology
- Experimental Psychology
- Health Economics
- Health Informatics
- Health Psychology
- Inflammation Sciences
- Medical Microbiology
- Mental Health
- Midwifery
- Nursing
- Occupational and Environmental Health
- Optometry
- Ophthalmology
- Pharmacology
- Pharmacy and Pharmaceutical Sciences
- Pharmacy Practice
- Primary Care and Health Services Research
- Psychology
- Public Health
- Social Work

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# FIND YOUR PROJECT

UOM.LINK/BMH-PGR-WEBINAR-PROJECTS

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Download By FindAPhD.com

Department:  
All

Supervisor:  
All

Discipline:  
All

Funding Status:  
All

Keywords:  
Apply

85 PhDs Found

Reset Search

Results 1 - 10 of 85



COMPETITION FUNDED



SELF-FUNDED



DIRECTLY FUNDED

## Physiology and mathematical modelling of pharmacodynamics in the human placenta

Division of Developmental Biology and Medicine

PhD Research Project Self Funded

Dr P Brownbill, Dr Eleanor Doman

Application Deadline: Applications accepted all year round

### Details

Medicines regulators are calling for new alternative methods to replace animal testing of in the safety evaluation of pharmaceuticals prescribed to women of childbearing age. The ex vivo dual perfusion model of the human placenta provides an ethical potential to study drug uptake and transfer from the maternal to the fetal circulation. This model requires further developmental steps to bring the technology to acceptable through-put speed for toxicology testing, without compromising on the quality control of test data. It also provides useful tools in the development of mathematical models to understand the efficacy and mechanisms of uptake processes of traditional compounds and biopharmaceuticals.

This self-funded PhD opportunity will investigate the complexities of hydrostatic pressure differences and transplacental barrier "leaks" of fetal perfusate using the ex vivo dual perfusion model of the human placenta. The effects of these "leaks" will be mathematically modelled for the counter-current maternal-side to fetal-side transfer of inert compounds and medications across the barrier. It requires a candidate with a deep interest in biological mechanisms and placental anatomy and a preparedness to learn physiological techniques of the human placenta alongside analytical and computational model development. On call work will be required to follow with experimentation on freshly delivered placentas from maternal disease.

Candidates are expected to hold (or be about to obtain) a minimum 2:1 Bachelors Degree with Honours (or equivalent) in a related area/subject. Candidates with experience in physics or mathematics, or with an interest in pharmacology and mathematical modelling are encouraged to apply.

### Eligibility

Applicants must have obtained or be about to obtain a minimum Upper Second class UK honours degree, or the equivalent qualifications gained outside the UK, in a relevant discipline.

### Before you Apply

Applicants must make direct contact with preferred supervisors before applying. It is your responsibility to make arrangements to meet with potential supervisors, prior to submitting a formal online application.

### How to Apply

To be considered for this project you MUST submit a formal online application form – on the application form select PhD Developmental Biology Programme. Full details on how to apply can be found on the Website: [How to apply for postgraduate research at The University of Manchester](#)

If you have any queries regarding making an application please contact our admissions team [FBMH.doctoralacademy.admissions@manchester.ac.uk](mailto:FBMH.doctoralacademy.admissions@manchester.ac.uk)

### Equality, Diversity and Inclusion

Equality, diversity and inclusion is fundamental to the success of The University of Manchester, and is at the heart of all of our activities. The full Equality, diversity and inclusion statement can be found on the website: [Equality, diversity and inclusion \(EDI\) | Postgraduate Research | Biology, Medicine and Health | University of Manchester](#)

### Funding Notes

Applications are invited from self-funded students. This project has a Band 3 (high) fee. Details of our different fee bands can be found on our website <https://www.bmh.manchester.ac.uk/study/research/fees/>

### References

- Schneider H, Brownbill P, Albrecht C (2021) Ex vivo dual perfusion of an isolated cotyledon 1 of human placenta: history and future challenges. *Placenta* 107: 8–12.
- Schneider H, Albrecht C, Ahmed MS, Broekhuizen M, Aengenheister L, Buerki-Thumherr T, Danser AHJ, Gil S, Hansson SRi, Greupink R, Lewis RM, Markert UR, Mathiesen L, Powles-Glover N, Wadsack C, Brownbill P (2022) Ex vivo dual perfusion of an isolated human placenta cotyledon: towards protocol standardization and improved inter-centre comparability. *Placenta* 126:83-89
- Brownbill P, Sebire N, McGillick E, Ellery S, Murthi, P (2018) Ex Vivo Dual Perfusion of the Human Placenta: Disease Simulation, Therapeutic Pharmacokinetics and Analysis of Off-Target Effects. In: *Methods in Molecular Biology – Preeclampsia* Eds: Vaillancourt, C. & Murthi, P. (eds.). 1 ed. Switzerland: Springer/Humana Press, Vol. 1710, p. 173-189 16 p. 14. (Methods in Molecular Biology)

Hide Details

Email Enquiry

Apply Online

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# CONSIDER FUNDING

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MRC  
DOCTORAL TRAINING PARTNERSHIP



BBSRC NORTH WEST DOCTORAL  
PROGRAMME IN BIOSCIENCE



BICENTENARY  
PHD STUDENTSHIPS



PRESIDENT'S DOCTORAL  
SCHOLAR AWARD



MEDICAL RESEARCH COUNCIL  
CORE IN EXPOSOME IMMUNOLOGY



INTERNATIONAL PARTNERSHIP  
PHD STUDENTSHIPS



CANCER RESEARCH UK MANCHESTER  
INSTITUTE STUDENTSHIPS



CANCER RESEARCH UK MANCHESTER  
CENTRE STUDENTSHIPS & MB-PHD



ALZHEIMER'S SOCIETY  
DOCTORAL TRAINING CENTRE



ENGINEERING & PHYSICAL SCIENCES  
RESEARCH COUNCIL DTP



ECONOMIC & SOCIAL RESEARCH COUNCIL  
NWSS CASE & DTP



THE KENNEDY TRUST  
MB-PHD



DUAL-AWARD BETWEEN THE UNIVERSITY  
OF MANCHESTER AND MELBOURNE



UOM-CHINA SCHOLARSHIP COUNCIL  
SCHEME

AND MORE...



INDIVIDUALLY/DIRECTLY  
FUNDED PROJECTS

EXTERNAL FUNDING  
CHARITIES, TRUSTS, FOUNDATIONS

HOME GOVERNMENT  
FUNDING

SELF-FUNDING

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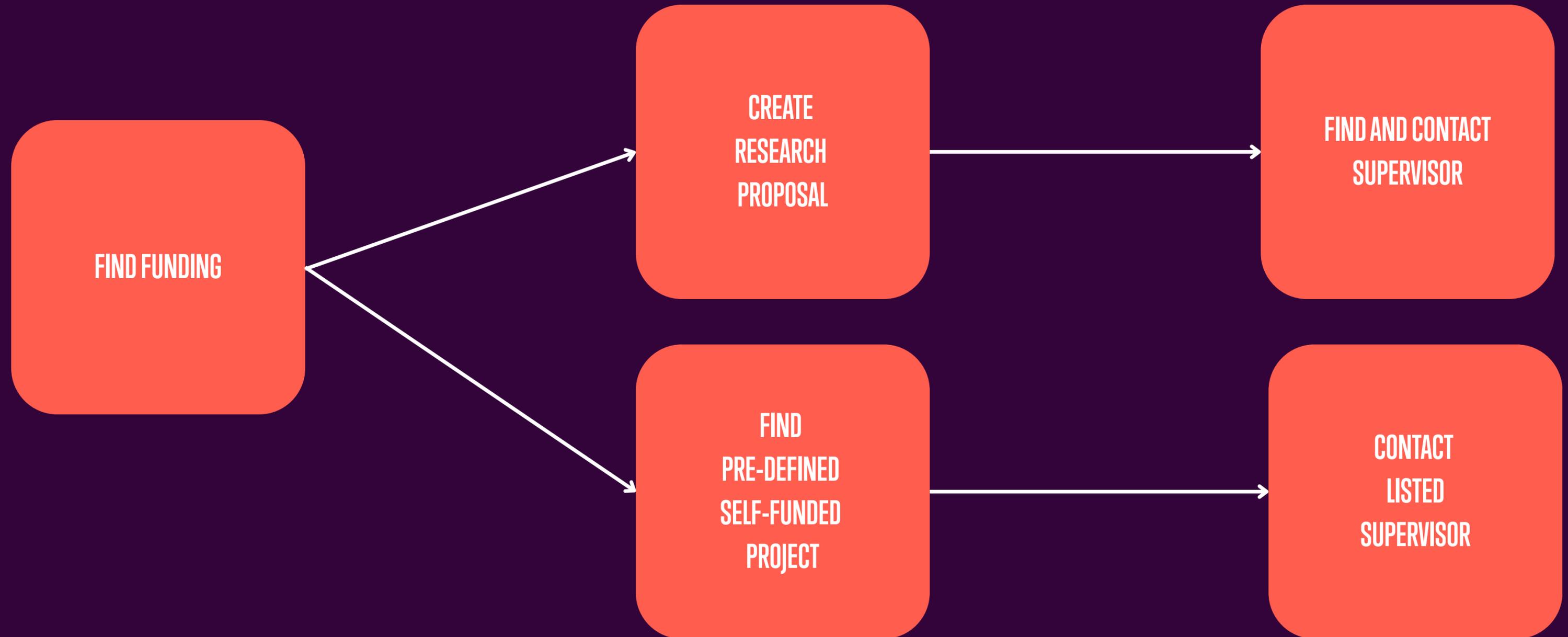
7 AFTER YOU APPLY

# SELF-FUNDING

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# INTEGRATED PROGRAMMES

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## INTEGRATED PHD

Undertake a master's before progressing onto a PhD if you're self-funded or you've received funding from your government

Combine a postgraduate taught course with a related PhD project in biology, medicine or health.

## PHD WITH INTEGRATED TEACHING CERTIFICATE

Develop your teaching skills while undertaking your research and gain a competitive advantage ahead of a career in teaching or Higher Education.

Undertake a Postgraduate Certificate in Medical and Health Education alongside your PhD.

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# CONTACTING THE SUPERVISOR

[UOM.LINK/BMH-PGR-WEBINAR-SUPERVISOR](https://uom.link/bmh-pgr-webinar-supervisor)



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# BEFORE YOU APPLY AND APPLYING

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# AFTER YOU APPLY



# WHEN YOU HOLD AN OFFER



## ATAS

Academic Technology  
Approval Scheme

Security clearance required to  
study certain sensitive  
subjects in the UK



## CAS

Confirmation of Acceptance  
for Studies

Unique reference number  
confirming the University has  
agreed to be your sponsor,  
required for your visa.



## VISA

Most international students  
will need to obtain a Student  
Route visa to study.



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## REGISTER

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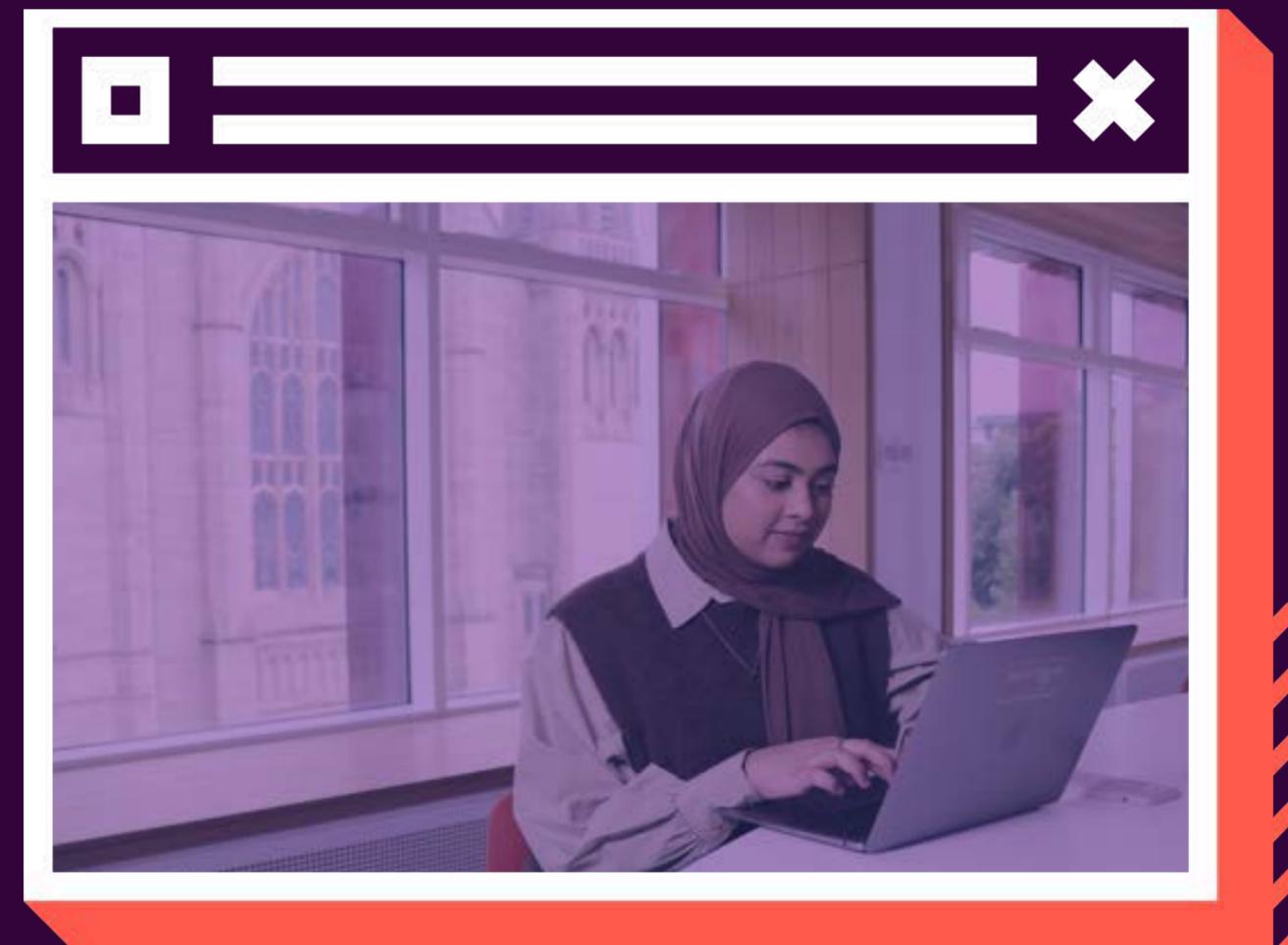
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# *PANEL Q&A*

**GOT A QUESTION?**

**ADD IT TO THE Q&A CHAT**



# ***MEET OUR POSTGRADUATE RESEARCHERS***



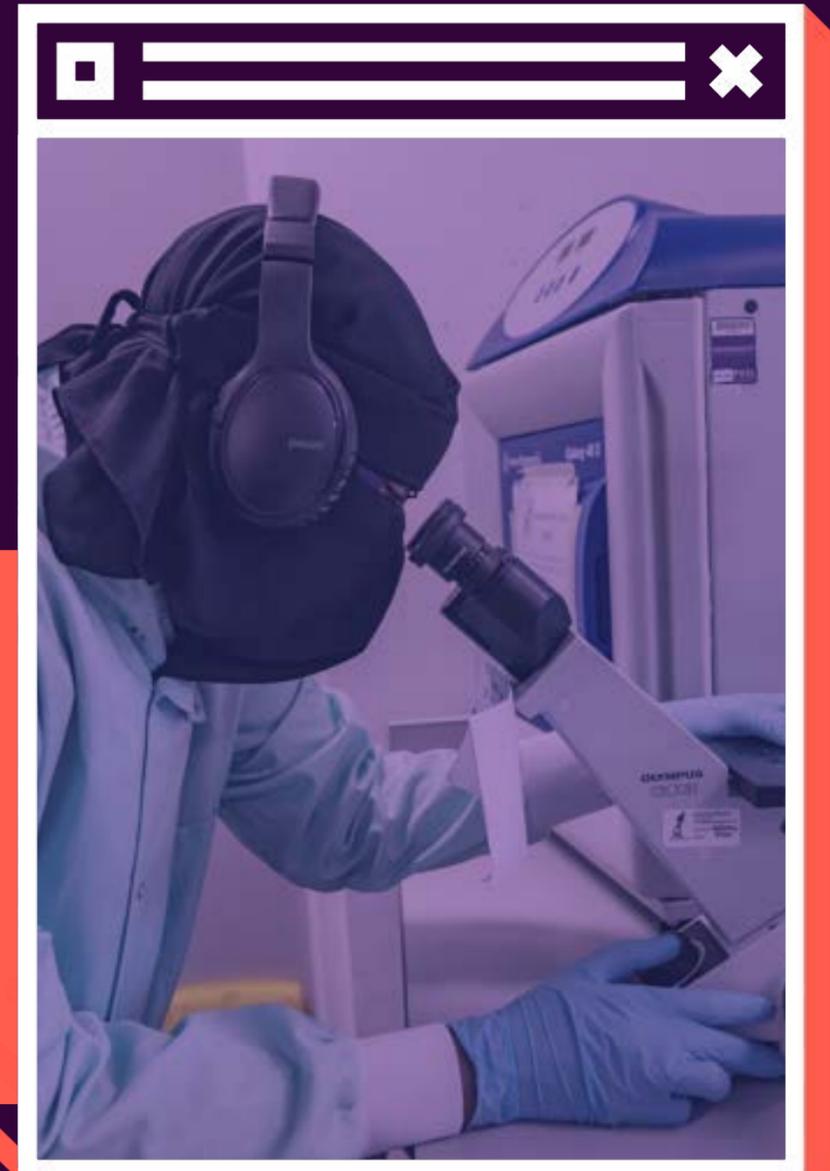
**LISHAN**



**MARYAM**

# MARYAM

- **Before my PhD**
  - Ahmadu Bello University, Nigeria.
- **My journey to PGR**
  - Passion for research was ignited during my undergraduate studies.
  - Realized a PhD was essential for a research career
  - Applied to numerous universities in Europe including Oxford, Cambridge, Leeds, Glasgow, and even Stanford in the US.
  - Secured the President Doctoral Scholarship
- **My research**
  - Cellular therapies for stroke
  - President's Doctoral Scholar Award
- **Why Manchester?**
  - Cutting-edge research
  - Rich blend of culture
  - Mentorship here is generally great.
- **What next?**
  - Pursue a research career in either academia or industry.



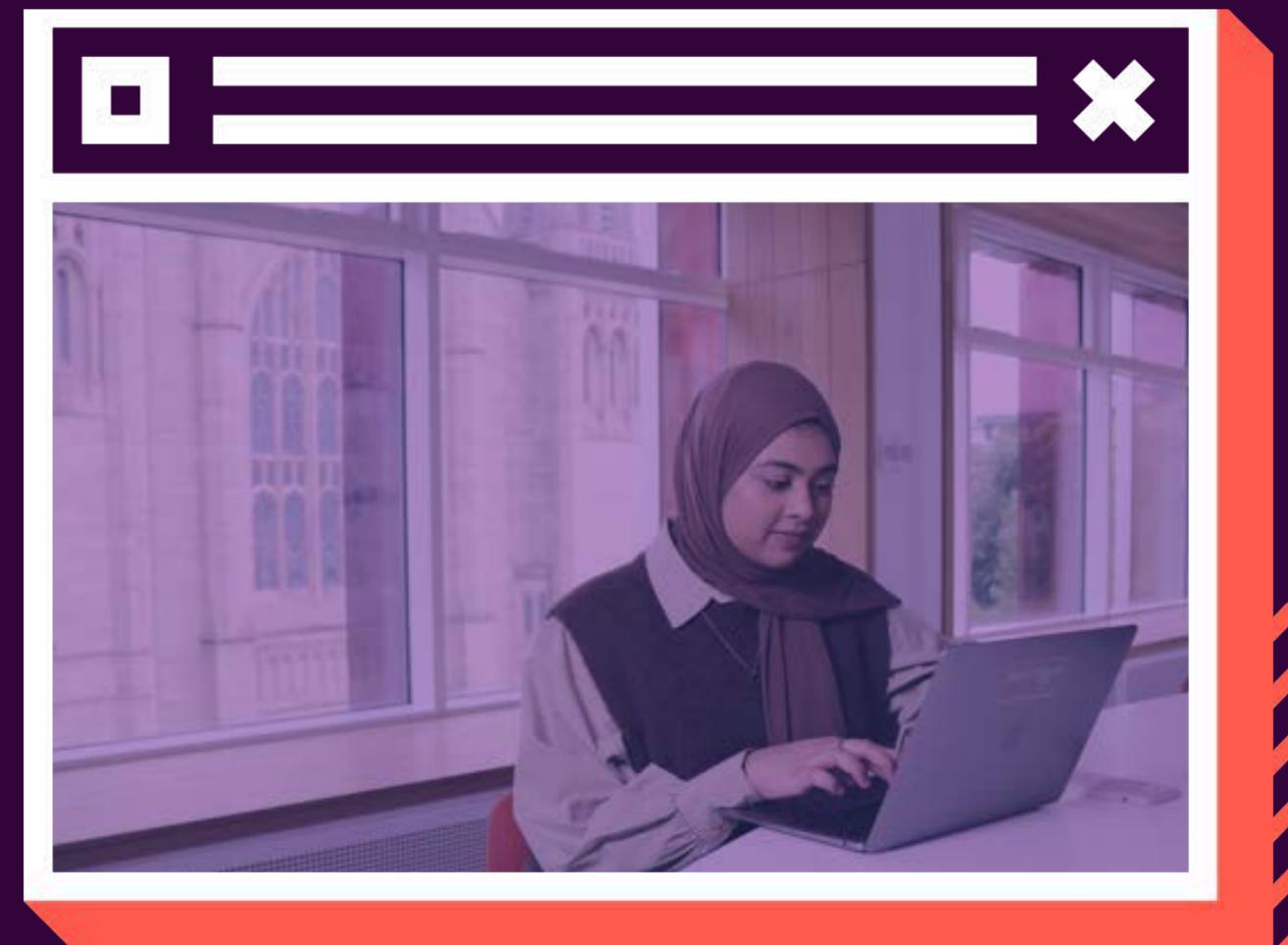
# LISHAN

- Before my PhD
  - Worked as a clinical nurse in China
- My journey to PGR
  - 1 Studied Nursing for undergraduate degree in China
  - 2 Completed Master's in Nursing in the UK
  - 3 Developed a strong interest in research
  - 4 Wanted to explore another side of Nursing, not just clinical work
- My research
  - Developing a Chinese version of a lifestyle-integrated functional exercise programme for community-based Chinese older people in the UK for fall prevention.
  - Testing the feasibility and acceptability of this intervention.
- Why Manchester?
  - 1 High-ranked university for Nursing worldwide;
  - 2 Diverse and convenient city.
- What next?
  - 1 Open to new opportunities
  - 2 Interested in project management and research coordination



# *PANEL Q&A*

**GOT A QUESTION FOR OUR PANEL?**  
**ADD IT TO THE Q&A CHAT**



# NEXT STEPS

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VISIT OUR WEBSITE TO DISCOVER MORE  
INCLUDING HOW TO APPLY, AVAILABLE  
PROJECTS, FUNDING AND MORE.  
[UOM.LINK/BMH-PGR-WEBINAR-MORE](https://uom.link/bmh-pgr-webinar-more)



SIGN-UP TO OUR MAILING LIST  
TO RECEIVE OUR FUNDING ALERTS, EVENT  
UPDATES AND OUR MONTHLY NEWSLETTER.  
[UOM.LINK/BMH-PGR-WEBINAR-MAILINGLIST](https://uom.link/bmh-pgr-webinar-mailinglist)

# UPCOMING EVENTS

FACULTY OF BIOLOGY, MEDICINE AND HEALTH  
POSTGRADUATE RESEARCH

POSTGRADUATE RESEARCH  
OPEN DAY

5 NOV 25

12PM - 4.30PM  
ON CAMPUS

BOOK YOUR PLACE [UOM.LINK/BMH-PGR-OPEN-DAY-BOOK](https://uom.link/bmh-pgr-open-day-book)

'PHD LIFE IN THE FACULTY OF BIOLOGY,  
MEDICINE AND HEALTH'

19 NOV 25

1PM - 2PM  
(GMT)

'PREPARING FOR A  
PGR INTERVIEW'

8 DEC 25

1PM - 2PM  
(GMT)

BOOK YOUR PLACE [UOM.LINK/BMH-PGR-WEBINAR-BOOK](https://uom.link/bmh-pgr-webinar-book)



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**FACULTY OF BIOLOGY, MEDICINE AND HEALTH  
POSTGRADUATE RESEARCH**

**THANK YOU FOR JOINING US!**

**LET US KNOW YOUR FEEDBACK VIA  
OUR POST-EVENT SURVEY**

**[UOM.LINK/BMH-PGR-WEBINAR-SURVEY](https://uom.link/bmh-pgr-webinar-survey)**

