

MSc by Research Regenerative Medicine and Tissue Repair Reproductive Sciences





Dr Marieke Hoeve

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IRR MScR Academic Team

Dr Marieke Hoeve, Programme Director

- MScR Regenerative Medicine and Tissue Repair
- MScR Reproductive Sciences

IRR Head of PG Programmes; Senior Lecturer





Dr Mihaela Crisan, Programme Co-Director

MScR Regenerative Medicine and Tissue Repair

CRM Group Leader

Dr Florent Petitprez, Programme Co-Director

• MScR Reproductive Sciences

CRH Group Leader







Study at Institute for Regeneration and Repair (IRR)

World-leading research into stem cells, regenerative medicine, inflammation & reproductive health

'Bench-to-bedside' approach to address the challenges posed by major diseases







IRR: Fundamental science to clinical translation

Centre for Inflammation Research (CIR) Studying the prevention, diagnosis and treatment of inflammatory diseases

Centre for Regenerative Medicine (CRM) Understanding disease and the damage they do to the body; Developing treatments to repair this damage

Centre for Reproductive Health (CRH) Develop therapeutic and preventative strategies to improve health & reproductive outcomes



Human earlobe epidermis. Image by: Dr Sam Hess, CRM





You'll join a vibrant postgrad & research community

- >200 postgraduate students at IRR
- Supported by IRR postgraduate team
- Academic and social events
- Joint MScR training, incl masterclasses















MSc by Research - Academic Year Timeline

COURSE 1	COURSE 2	COURSE 3	
Project 1 (80 credits)	Proposal (20 credits)	Project 2 (80 credits)	Exam Board Final marks
October - February	March - April	May - August	





MSc by Research - Assignments

- COURSE 1
- Concept note
- Poster presentation
- Dissertation 1

COURSE 2

- Project proposal talk
- Project proposal

COURSE 3

- Journal club
- Project presentation
- Dissertation 2

Formative: Feedback, no credits Summative: Marks for credits





MSc by Research – Comprehensive Training







Project selection & development

- Receive project pool before start of course 1 and 2
- Meet with Principal Investigators (PIs) to discuss
- You can also explore own ideas with IRR PIs
- Submit your top choices to programme team



- Project allocation by Programme Directors, with input from PIs
- Before starting project 2 lab work, you will develop this project under guidance of your supervisor





Project examples MScR Reproductive Sciences

- o Endometriosis
- o Fertility preservation (childhood cancer)
- o HPV and penile carcinoma
- o Endometrial cancer: role of macrophages
- o Oocyte and embryo quality
- o Polycystic ovary syndrome
- o Fetal ovary development and anti-epileptic drugs









Main themes for MScR Regenerative Medicine



- o Stem cell biology
- o Tissue homeostasis, remodelling & repair
- o Reprogramming
- o Immune modulation
- o Regulation of inflammation & regeneration





MScR Regenerative Medicine: Clinical Translation



- o Optional: Project 2 at collaborating biotech
- o Several project available; competitive
- Cohort will visit some host organisations to have 'look behind the scene'





IRR MScR Scientific Retreat at Outdoor Centre







Graduate attributes & next destinations

- Well-placed to capitalise on biomedical research's potential to advance human health
- Skilled in working across various disciplines underpinning regenerative medicine and tissue repair / reproductive health
- Equipped to take on challenging roles within academic, healthcare or industrial environments
- Successfully pursue professional career in biomedicine
- Majority of graduates secure competitive, fully-funded PhD studentships; many at UoE
- Many graduates are offered job as Research Assistant in academia or biotech











Next steps...

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Contact details for follow-up questions

We apologise if we did not get through all of your questions in the time allotted for this session.

If you have further questions that have not been answered, please email:

futurestudents@ed.ac.uk

or

Kelly.Douglas@ed.ac.uk (IRR Postgraduate Administration Manager)





Thank you – click 'Leave' when the session ends

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- ...and visit the events hub:
- <u>https://edin.ac/4gZuP3G</u>









Thankyou

