

MScR Biomedical Sciences La exacterices

Paul Le Tissier November 2024



MScRes in Biomedical Sciences (Life Sciences)

- One year course (September-September)
- Focused on laboratory-based training (working in lab Week 2)
- Ideal training for PhD studies, research in industry
- Small taught element focused on developing core skills
- Opportunity to work with **any** University research group





MScRes in Biomedical Sciences (Life Sciences)

Course Structure

- Two projects, each of 20 week duration
- Projects selected from list of PI suggestions or by approaching PI and co-designing project
- Students write own Project Plan based on either project
- Core skills and specialist training in range of areas of interest identified by students





MScRes in Biomedical Sciences (Life Sciences)

Assessments

- Two dissertations based on each project (80 Credits each)
- Project Plan (20 Credits each)

Non-assessed training

- Project talks
- Poster Presentation
- Literature Review

- Project plan
- Ethics
- Academic Language and Literacy





MScRes in Biomedical Sciences (Life Sciences) Skills developed

- Ability to independently design, analyse and interpret experiments
- Communication skills- posters, talks, dissertations
- Project planning and time management
- Independent learning
- Ability to work within, and be an active part of, a research group





MScRes in Biomedical Sciences (Life Sciences) Examples of projects

- Characterisation of a cellular model for Huntington's Disease
 (Dr Karen Smillie)
- Defining the effect of tumour microenvironment on cell plasticity in colorectal cancer (Dr Kevin Myant)
- Investigating the effects of IL-6 in invasive lobular breast cancer (Prof Valerie Brunton)





MScRes in Biomedical Sciences (Life Sciences) Examples of projects

- Using zebrafish larval models to study wound and tumour induced inflammation (Dr Yi Feng)
- Molecular diagnostics of urinary tract infections of dogs at point of care (Prof Till Bachmann)
- Genome plasticity and its role in antifungal drug resistance in the human fungal pathogen Candida albicans (Dr Vasso Makrantoni)





MScRes in Biomedical Sciences (Life Sciences) Admissions

- Requires equivalent UK 2:1 in a relevant subject
- English language IELTS score total 7.0, minimum score 6.5
- English taught 1st degree acceptable for language requirement
- Apply anytime before end July- degree and language requirements not needed in advance





MScRes in Biomedical Sciences (Life Sciences) Destinations

- ~60% students go on to PhDs (almost 100% of those that want to)
- Industry
- Diagnostic laboratories
- Further study (eg medicine)
- Academic publishing





Asking questions (Microsoft Teams)

Type your question into the Chat Area







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: <u>futurestudents@ed.ac.uk</u>
- Please feel free to email me (Paul.LeTissier@ed.ac.uk)





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Thank you

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