

MSC (MOLECULAR CELL BIOLOGY WITH BIOINNOVATION) (NOT ON OFFER 2024/25)

Programme Learning Outcomes

Programme Learning Outcomes for MSc (Molecular Cell Biology with Bioinnovation) (NFQ Level 9, Major Award)

On successful completion of this programme, students should be able to:

- Display advanced theoretical knowledge and practical understanding in the area of Molecular Cell Biology;
- Describe the basis and application of laboratory methods used in Molecular Cell Biology Research including state-of-the-art techniques and their limitations;
- Develop and complete an independent research project addressing emerging questions in Molecular Cell Biology, and acquire transferable skills in experimental design and critical analysis, written and oral communication and project management;
- Investigate the current approaches used in patient diagnosis, and treatment options available for the management of different diseases including cancer, infectious and inflammatory diseases and neurodegeneration through a programme module taught predominantly by clinicians;
- Source, review, critically assess and evaluate relevant primary literature and summarize material for presentation to peers;
- Demonstrate knowledge of the structure of the Biotechnology Industry and best-practice Intellectual Property Management;
- Integrate science and business skills and develop a Marketing and Business plan for a fledgling Biotech company;
- Describe the financial processes of biotech innovation;
- Develop professional practice skills including team-work, negotiation, presentation, writing and oral communication etc.