

BSc (Hons) Bi Med Science:

Biomedical Sciences

Provided by the School of Life Sciences, University of Hull

2017 intake

Study themes:

Cancer biology

Cardiology

Molecular aspects of disease

Genetics

Medical microbiology

Fertility and developmental biology

Information about the School:

The School of Biological, Biomedical and Environmental Sciences at Hull offers a wide range of degrees including biomedical science, biology, biology with molecular bioscience and human biology as well as zoology, aquatic zoology and marine and freshwater biology. The biomedical science degree in particular has proved extremely popular and has met a need within the health service for training scientists for work within a hospital environment.

The degrees offered in the School reflect the research interests of the staff, which are broadly divided into marine and freshwater biology, ecology and evolution, and molecular and cellular biosciences. Of particular interest to potential intercalating students is the molecular and cellular biosciences research. This encompasses a variety of topics including the processes involved in heart failure, cancer immunology, cancer diagnosis, cancer chemotherapy, and medical microbiology. The focus on high quality research in the School is delivering powerful insights into fundamental biological questions, as well as translational research with clear implications for medicine. Key to these advances is our ability to study biological processes at the molecular and cellular levels, and thus provide the mechanistic understanding to underpin the design of new diagnostic tools and treatments.

Over the past few years there has been considerable investment into upgrading the facilities within the School. This includes the refurbishment of teaching and research laboratories and the opening in 2012 of the new Biomedical Science building, the Allam building. This investment in infrastructure has been coupled with recruitment to a number of new appointments thus strengthening the Schools research profile.

The intercalated degree with HYMS will allow students to do an intensive research project in the laboratory, providing firsthand insight into the problem solving and organisational skills required in doing research. An indication of the research topics in the department can be found by looking at the research interests of the staff below.

In addition, lecture courses offer the students the opportunity to broaden and strengthen their biological knowledge and understanding, providing a powerful complement to their medical training.

Research project supervisors relevant to medicine and indicative project themes:

Cancer biology

Dr Lynn Cawkwell	Identification of novel cancer biomarkers by proteomics
Prof John Greenman	Tumour biology (genetics, cytogenetics, immunology)
Dr Steven Maher	Gastrointestinal cancer biology and anti-cancer therapeutics
Dr Isabel Pires	Novel regulators of the aspect of the tumour microenvironment
Dr Justin Sturge	Prostate cancer

Cardiology

Dr Chris Cawthorne	Validation of molecular imaging agents
Dr Charlotte Dyer	Lab on a chip technology and diagnosis of disease
Dr Sandra Jones	Cardiology and aging
Dr Pedro Beltran-Alvarez	Post-translational modification of proteins in cardiac disease

Molecular aspects of disease

Dr Camille Ettelaie	Cancer biology, metastasis, angiogenesis
Dr Rebecca Hill	Diabetic neuropathies
Prof Khalid Naseem (HYMS)	Thrombosis and platelet function in health and disease
Dr Francisco Rivero (HYMS)	The actin cytoskeleton in health and disease
Dr Laura Sadofsky	Molecular pharmacology of ion channels
Dr Graeme Stasiuk	Design and synthesis of contrast agents for biological imaging

Genetics

Dr Heather Sealy-Lewis	Gene regulation in <i>Aspergillus nidulans</i>
Dr Lori Lawson-Handley	Genetic diversity in human populations
Dr Isabella Capellini	Macro-evolutionary patterns and processes of adaptation in mammals

Medical Microbiology

Dr Frank Voncken	Energy metabolism in <i>Trypanosoma brucei</i>
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Fertility and developmental biology

Dr Roger Sturmey (HYMS)	Metabolic events in early development
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Research project supervisor e-mail addresses

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