HUMAN TISSUE REPAIR MSc
2019/20 ENTRY

www.ucl.ac.uk/graduate/
Human tissue repair after injury and in disease and the development of effective treatments are the focus of all biomedical research. This MSc programme, taught by leading scientists and clinicians, provides an integrated approach to human tissue repair focusing on inflammation, immunotherapy and transplantation science, and preparation for PhD study and a career in biomedicine.

**Degree summary**

The MSc will provide knowledge of the fundamentals of inflammation and immune response in human health and disease, cellular and molecular mechanisms of human tissue repair, the development of therapies designed to repair and restore tissue function, and treatments including immunotherapy, transplantation, tissue constructs and medical devices. Students will obtain additional practical, analytic and transferable skills essential in biomedical research.

// UCL offers a world-class research and teaching environment in biomedical sciences.

// The internationally renowned UCL Divisions of Medicine and Surgery & Interventional Science jointly offer this MSc within the new Institute of Immunity and Transplantation (IIT) based at the Royal Free Campus, to deliver the only programme with an integrated multidisciplinary approach to learning about human tissue repair, regeneration and therapy.

// The programme aims to harness basic, biomedical and clinical expertise and research strengths assembled from across UCL institutes and divisions and UCL partner hospitals, and together with industrial colleagues will provide world-leading cohesive teaching and training in inflammation, immunology, tissue engineering, transplantation, drug discovery and in understanding and treating human disease.

The programme is delivered through a combination of seminars, lectures, e-learning, laboratory work and tutorials. Assessment is through examination, presentations, essays, practical reports and dissertation.

**Degree structure**

Mode: Full-time: 1 year; Part-time: 2 years

Location: London, Hampstead (Royal Free Hospital)

Students undertake modules to the value of 180 credits. This programme consists of six core modules (90 credits), two specialisation optional modules (30 credits) and a research project (60 credits).

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

### COMPULSORY MODULES
- Principles of Inflammation
- Principles of Immunology
- Tissue Repair and Regeneration
- Research Methodologies for Human Tissue Repair
- Practical Laboratory Research Skills
- Students choose one of the following specialisation modules depending on the route they wish to follow: Inflammation; Immunotherapy; Transplantation Science:

### OPTIONAL MODULES
- Students choose two optional modules from their chosen specialisation route below:
  - Inflammation specialisation
  - Transplantation Science
  - Stem Cell Therapy
  - Immunological Basis of Disease
  - Cell & Gene Therapy: Molecular and Clinical Aspects
  - Immunotherapy specialisation
  - Transplantation Science
  - Stem Cell Therapy
  - Inflammation and Disease
  - Choosing a Drug Target 1: Scientific and Technical Aspects
  - Choosing a Drug Target 2: Intellectual Property, Clinical
  - Transplantation Science specialisation
  - Applied Biomaterials
  - Tissue Engineering

The above optional modules are subject to confirmation the module is running in term 2 and potential timetable clashes. The lists are not exhaustive and other modules may be taken with the permission of the Programme Lead.

### DISSERTATION/REPORT
- Students undertake a research project culminating in a dissertation of 5,000 words in the style of a manuscript for scientific publication.
Your career

The programme will prepare students for further academic study and to work at the highest levels within the biomedical sciences. It will also provide the foundation for careers in the public healthcare sector and the NHS, in industry and biopharma, government and research councils, biomedical charities and stakeholders, sports medicine, and scientific media and publishing houses.

Employability

Students will gain awareness of the commercial opportunities and diverse funding mechanisms for the development of new ideas, technologies and applications. Our learning methods will prepare students for careers in academic or industrial biomedical sciences, as well as equipping them with transferable skills in presentation, writing, organisation and team work.
Entry requirements

A medical degree or a minimum of an upper second-class UK bachelor's degree in an appropriate subject (biological science, biomedicine, biophysics, chemistry, medicine), or an overseas qualification or an equivalent standard.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at: www.ucl.ac.uk/graduate/english-requirements

Your application

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

- why you want to study Human Tissue Repair at graduate level
- why you want to study Human Tissue Repair at UCL
- what particularly attracts you to the chosen programme
- how your academic and professional background meets the demands of this challenging programme
- where you would like to go professionally with your degree

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. Further information can be found at: www.ucl.ac.uk/prospective-students/graduate/taught/application.