PERSONALISED MEDICINE AND NOVEL THERAPIES MSc
2019/20 ENTRY

www.ucl.ac.uk/graduate/
Personalised medicine is the next generation of medicine and healthcare. It aims to improve the management of patients’ health and to target therapies to achieve the best outcomes in the management of a patient’s condition, their predisposition to disease and their prognosis. Personalised healthcare takes a multi-omics approach (one which incorporates data from a range of different sources, including genomic and epigenomic) directed at the development of novel therapies.

Degree summary

The content includes a focussed set of core modules specialising in all aspects of personalised medicine, including genomics, bioinformatics, statistics and the regulatory aspects of novel therapies such as clinical trial design. Optional modules allow you to explore the applications and scope of personalised medicine. You are given opportunities to develop analytic skills during the programme before undertaking your independent research project.

The next generation of scientists and healthcare workers must be trained to deliver this change in medicine and research landscapes. Our programme offers you access to cutting-edge research taught by leading academics and clinicians in personalised medicine from UCL and Great Ormond Street Hospital, as well as a range of project choices from computational biology to clinical trials design. The programme prepares you to become a scientist or researcher in academia or industry, as well as for progression to a higher research degree.

UCL’s crossdisciplinary research into personalised medicine harnesses the breadth and depth of expertise across the institution and benefits from close links with our partner hospitals to support the delivery of innovative patient-targeted medicines and therapies. This is reflected by the many groups conducting high-quality research and clinical trials in the field including researchers within UCL’s Great Ormond Street Institute of Child Health, Division of Infection & Immunity, Institute of Ophthalmology, Institute for Women’s Health, Institute of Genetics and the Cancer Institute, as well as University College London Hospital (UCLH).

Teaching includes lectures, seminars, problem classes and tutorials. Assessment varies depending on the module, but includes written coursework, multiple-choice questions, written examinations, a practical analysis examination and the research dissertation.

Degree structure

Mode: Full-time: 1 year; Part-time: 2 years; Flexible: up to 5 years
Location: London, Bloomsbury
Part-time students will take four modules per year plus the project in year 2. Modules on this programme tend to be taught over a period of a week with intervals between modules.

Students undertake modules to the value of 180 credits. The programme consists of five compulsory modules (75 credits), three optional modules (45 credits) and a research dissertation (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**
- Students will do the following five compulsory (core) modules.
  - Personalised Medicine
  - Novel Therapies: From Concept to Clinical Translation
  - Computational Biology for Personalised Medicine
  - Applied Genomics
  - Research Methodology and Statistics

**OPTIONAL MODULES**
- Students must choose three of the following optional modules.
  - Pharmacometrics
  - Stem Cells and Tissue Repair
  - Molecular and Clinical Aspects of Childhood Cancers
  - Clinical Genomics, Genetics and Rare Diseases
  - Clinical Applications of Cell and Gene Therapy
  - Molecular Aspects of Cell and Gene Therapy

**DISSERTATION/REPORT**
- All MSc students undertake an independent research project which culminates in a dissertation.
Your career

This programme aims to equip students for careers in research, education, medicine and business in academic, clinical and industrial settings. Examples of potential careers could include:

- conducting clinical trials as part of a team of clinicians, scientists and allied health professionals
- monitoring and analysing the results of clinical trials as part of a clinical trials unit
- developing new therapies or intellectual property in the pharmaceutical industry or other business venture
- academic research and/or lecturing in a university or other higher education setting

Employability

You will be given opportunities to develop specific scientific and analytic skills including skills in decision making, information curation, data gathering, writing scientifically, critical appraisal, scientific presentation skills, debating, maintaining scientific dialogue, experimental design, setting up clinical trials and an awareness of topical and important issues (ethics and the law). Furthermore, you will be encouraged to keep a portfolio of transferable skills learnt through teaching practices and assessments which will prepare you for progression to higher research degrees and/or the workplace.
**Entry requirements**

A primary medical qualification (MBBS or equivalent) or an upper-class Bachelor’s degree from a UK university in a relevant discipline or an overseas qualification of an equivalent standard is required.

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

**Your application**

**FEES AND FUNDING 2019/20 ENTRY**

// UK: £12,510 (FT), £6,250 (PT)
// EU: £12,510 (FT), £6,250 (PT)
// Overseas: £27,470 (FT), £13,750 (PT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master’s fee taken in an academic session.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

**APPLICATION DEADLINE**

All applicants: 30 August 2019

Details on how to apply are available on the website at: www.ucl.ac.uk/graduate/apply

**CONTACT**

Teaching Administrator

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**EU referendum**

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk/brexit