

## MSc Pharmacogenetics and Stratified Medicine

Directors: Dr Dean Wills and Dr Geoff Wells; Programme Tutor: Dr Elvira Mambetisaeva

This MSc provides an in-depth knowledge of pharmacology of drugs and understanding the genetic basis of individual variability of drug efficacy and adverse drug reactions with focus on genetic polymorphisms of drug targets and drug-metabolizing enzymes and how this knowledge can be applied to improve patient's healthcare, drug efficacy and alleviate human disease. Students will develop skills necessary for independent research. The course attracts a rich mix of home and international students with clinical and Life Sciences backgrounds.

### Core Modules:

- Clinical Applications of Pharmacogenetic Tests
- Drug Design and Development
- Human Genetics in Context
- Molecular Pharmacology
- Basic Statistics for Medical Sciences
- Principles of Human Genetics

### Choice of two Optional modules:

- Pharmacogenomics, Adverse Drug Reactions and Biomarkers
- Genetics of Neurological Disease
- Genetics of Cardiovascular Disease
- Statistics for Interpreting Genetic Data
- Anti-cancer Personalised Medicines
- Pharmacology of Inflammation
- Computational and Systems Biology

### MSc Project: lab-based or computational project

For further information and how to apply please visit our websites:

<http://www.ucl.ac.uk/prospective-students/graduate-study/taught/degrees/tmsphaspsm01> and [www.ucl.ac.uk/ugi/education](http://www.ucl.ac.uk/ugi/education)

Admission closing date: 31<sup>st</sup> July 2016 – Overseas (non-EU) applicants  
2<sup>nd</sup> August 2016 – UK/EU applicants

Watch a video about the MSc at <http://www.youtube.com/watch?v=YEDWFH6s33s>