PHARMACOGENOMICS AND STRATIFIED HEALTHCARE

Duration: One week
Cost: £1,000. If you are an NHS employee full funding is available through Health Education England
Tutors: Dr Emanuele de Rinaldis - King’s College London
Dr Vanessa Ho – St George’s, University of London
Location: King’s College London

SGUL.AC.UK/GENOMICS
In this module you will explore the theoretical and applied view of the impact of genomics technologies and bioinformatics approaches on stratified healthcare and “3P” - personalised, predictive, preventive - medicine. You will learn about the mechanisms linking genetics information to drug efficacy/drug reactions, along with concepts for the development of omics based biomarkers for stratified healthcare. Large population-based genomics initiatives and their impact on patients' health and social issues will be introduced and critically discussed.

LEARNING OBJECTIVES
This module will allow you to:

- Discuss and evaluate the opportunities opened up by modern genomics technologies and bioinformatics data analysis for “3P” (predictive, preventive, personalized) medicine.
- Appraise the strategies and analytical approaches for stratifying patients for optimal drug response or adverse drug reactions based on genomics data.

ASSESSMENT
Work produced for assessment will be assessed against specific criteria for the module concerned and against St George’s general postgraduate (level 7) criteria which state that students working at master’s level should be able to demonstrate the following attributes in their work:

1. Critical and analytical thought processes;
2. An appropriate use of evidence;
3. Reference to relevant theoretical constructs;
4. In-depth understanding of current thought and practice within the chosen field;
5. Appropriate presentation (including acceptable academic style and correct referencing technique).

ENTRY REQUIREMENTS
Applicants should have a lower second class degree (2:2) in a subject that offers an appropriate grounding in science, healthcare or genetics. Alternative professional qualifications may be considered. Please visit sgul.ac.uk/genomics for the full criteria.

All the students on the course work as a team and you’re hugely supported by the tutors who are all practicing geneticists. The tutors encourage feedback daily and are extremely quick to react to it. It’s an exceptionally rewarding course.

Alena Marynina, Part time Msc Genomic Medicine student

Apply via sgul.ac.uk/genomics