

# Module Catalogue

## Life Sciences

### Postgraduate Study Abroad 2021/2

#### Semester 2

Please note, postgraduate students can take modules relating to their degree course only.

Module Code	Module Name	Level	Semester	UK Credit Value	Credit Equivalency
<b>Biomedical Sciences</b>					
7BIOM022W	<a href="#">Immunotherapy</a>	7	Semester 2	20	US Credits 4 / ECTS credits 10*
7BIOM039W	<a href="#">Advanced Molecular Biology</a>	7	Semester 2	20	US Credits 4 / ECTS credits 10*

\* All transcripts are issued in UK credits. Please note the recommendation of a 4 US credit value equivalency is provided as guidance. Final credit values for all modules for US students are decided by your home institution and will be dependent on its credit transfer policies.

## Biomedical Sciences

### Immunotherapy

**Module Code:** 7BIOM022W

**Level** 7

**Semester** 2

**Location:** Cavendish

**UK Credit Value:** 20

**Equivalent Credit Value:** US Credits 4 / ECTS credits 10\*

#### ***Pre-requisite: Knowledge and understanding of basic immunology***

Manipulation of the immune system from passive immunisation to the use of novel recombinant molecules is addressed. Strategies available for therapy of inherited and acquired immunological disorders are addressed. Modern applications for gene and cell-based therapies are discussed. Novel targets for vaccination strategies are compared. The production of recombinant antibodies and their use in immunotherapy of a variety of different diseases is examined. Manipulation of cytokines is also explored. Immunotherapy of tumours, inflammatory conditions and autoimmune diseases are discussed.

**Assessment:** Coursework (25%), Presentation (25%), Examination - closed book (50%)

\*All transcripts are issued in UK credits.

### Advanced Molecular Biology

**Module Code:** 7BIOM039W

**Level** 7

**Semester** 2

**Location:** Cavendish

**UK Credit Value:** 20

**Equivalent Credit Value:** US Credits 4 /

### **ECTS credits 10\***

Large databases yield information about DNA, RNA and protein variation between individuals and species and bioinformatics is a crucial component of molecular biology. Polymorphisms, epigenetics and microRNA have all greatly enhanced our knowledge about regulation of gene expression. This module will look at applications of a range of advanced molecular techniques such as next generation sequencing, microarrays, quantitative and multiplex PCR alongside our knowledge of OMICS databases.

**Assessment:** Presentation (50%), Examination - closed book (50%)

\*All transcripts are issued in UK credits.