

# COURSE DETAIL

## MOLECULAR AND CELLULAR IMMUNOLOGY

**Country**

United Kingdom - England

**Host Institution**

University of London, Royal Holloway

**Program(s)**

University of London, Royal Holloway

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

139

**UCEAP Course Suffix**

N

**UCEAP Official Title**

MOLECULAR AND CELLULAR IMMUNOLOGY

**UCEAP Transcript Title**

IMMUNOLOGY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

This course examines the specific immune system at the molecular level, dealing with the structure and function of the soluble and cell surface proteins involved, and to study the roles of the various cell types which participate in the immune response. This course covers a range of topics in molecular and cellular immunology, including the immune response and acquired immunity; antibody structure and function; antibody diversity and clonal selection; genetics of immunoglobulin expression; the complement system; antibody techniques; monoclonal antibodies; hypersensitivity reactions (allergies); the activity of T cells; major histocompatibility complexes, their role in transplant rejection and non-self recognition; HIV and AIDS.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

BS2540

### **Host Institution Course Title**

MOLECULAR AND CELLULAR IMMUNOLOGY

### **Host Institution Course Details**

[https://ssb-prod.ec.royalholloway.ac.uk/PROD/bwckctlg.p\\_disp\\_catalog\\_syllabus?c...](https://ssb-prod.ec.royalholloway.ac.uk/PROD/bwckctlg.p_disp_catalog_syllabus?c...)

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Biological Sciences

**Course Last Reviewed**

2024-2025

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