

# KATIE ELIZABETH FLIGHT

## CURRENT POSITION

London Interdisciplinary Bioscience Consortium PhD Student  
University College London/ The Francis Crick Institute

## EXPERIENCE

### **Research Assistant | Shattock Group, Imperial College London | Oct 2019-Sep 2021**

My work centered around the development and application of self-amplifying RNA vaccine technology. I was part of both the academic group and GCLP laboratory group so had experience at every stage of vaccine clinical trials- including human trials. In addition, I gained experience using animal models of vaccination and disease.

### **MRes Student | Dawson Group- Peter MacCallum Cancer Centre | Apr 2019-Sep 2019**

Using a range of molecular, cellular and chromatin biology techniques, I completed a project I designed investigating lineage switching in human leukemia.

Using syngeneic mouse models, I dissected the lymphoid and myeloid compartments and used them to assess the efficacy of therapeutic strategies.

### **MRes Student | Huang Group- Institute of Cancer Research London | Oct 2018-April 2019**

I conducted molecular profiling studies to examine downstream signaling dependencies of EGFR mutants in genetically engineered cell lines. This was to determine and inform potential synthetic lethal therapeutic strategies for cancer.

### **BSc Student | Cunningham Group- The University of Strathclyde | Oct 2017- Jan 2018**

I designed and conducted a research project looking at the role of proteinase activated receptor four in cancer. This involved various molecular and cellular biology techniques.

## AWARDS AND ACHIEVEMENTS

**LIDo PhD Scholarship (University College London)**

**President's PhD Scholarship (Imperial College London)**

**MRes Distinction Cancer Biology (Imperial College London)**

**Graduated 1<sup>st</sup> in my year with 1st Class BSc Hons Immunology and Pharmacology (The University of Strathclyde)**

**Best Biomolecular Science Student 2018 (The Royal Society of Biology)**

**BSc Pharmacology Prize (The British Pharmacological Society)**

**Vacation Studentship Award (British Pharmacological Society)**

**Full Blues- Highest Non-Academic Honor at University (The University of Strathclyde)**

## PUBLICATIONS

<https://doi.org/10.1111/cei.13517>

<https://www.nature.com/articles/s41577-021-00592-1>

**Vacation Studentship | Cunningham Group- The University of Strathclyde | May 2017- Sept 2017**

I worked with my supervisor to craft a successful application for a competitive studentship. My work focused on target validation of a novel group of ligands and as a result of my work a large collaboration was fostered between two groups at Strathclyde.

**Vacation Studentship | Kohl Group-MRC Glasgow Centre for Virus Research | May 2016- July 2016**

I independently secured a summer research placement to investigate the function of the N protein of flaviviruses and functional redundancies between flavivirus family members. I gained experience in molecular biology and cloning.

EDUCATION

**PhD | London Interdisciplinary Bioscience Consortium- University College London and The Francis Crick Institute | Oct 2021-2025.**

**MRes Cancer Biology | Imperial College London | Distinction**

**BSc Immunology and Pharmacology | The University of Strathclyde | 1<sup>st</sup> Class Joint Honors**

OUTSIDE OF ACADEMIA

**I represent Great Britain for Ultimate Frisbee**

**I love fitness and exercise- in particular running and yoga**

**I have a passion for making science accessible so have an Instagram and Tiktok platform I use for science communication  
@katieflightscience**

KEY SKILLS

**Lab Techniques:**

Extensive tissue culture (cell lines and organoids), western blotting, ELISA, ELISPOT, plasmid design and cloning, *in vitro* RNA synthesis, transient and stable transfection, lymphocyte isolation, MSD multiplex ELISA, luciferase reporter assay, CRISPR-CAS9 mutagenesis and screening, Immunohistochemical analysis of tissue, *In vivo* modelling of human diseases (infectious disease and cancer).

**Other Competencies:**

Scientific writing and communication, analysis and presentation of data, Microsoft Office, Basic Python.