

Cellular and Molecular Medicine



Undergraduate study

Courses

Single Honours

BSc Cancer Biology and Immunology

three years B131

BSc Cancer Biology and Immunology with Study in Industry

four years*

BSc Cellular and Molecular Medicine

three years B130

BSc Cellular and Molecular Medicine with Study in Industry

four years*

BSc Medical Microbiology

three years C521

BSc Medical Microbiology with Study in Industry

four years*

BSc Virology and Immunology

three years C540

BSc Virology and Immunology with Study in Industry

four years*

*Entry by transfer when you have secured a placement position.

This leaflet contains information for students planning to start university in autumn 2019. We have made every effort to ensure all details are correct at the time of going to press (June 2018). However, since this information is subject to change, you are advised to check the University's website, bristol.ac.uk/ug-study, for the latest updates.

Why study cellular and molecular medicine at Bristol?

Cellular and molecular medicine is an exciting subject which examines the fundamental mechanisms of diseases, potentially discovering new ways to treat them.

At Bristol, our aim is to inspire you in this goal to turn science into medicine. You will learn what it is like to be involved in biomedical research and how to think like a scientist, developing critical and analytical skills highly valued by employers in the field of biomedical sciences and beyond.

We offer:

- a range of stimulating courses taught by internationally recognised experts in infection and immunology, cancer biology, stem cell biology and regenerative medicine;
- the flexibility to transfer between courses as your interests develop;
- the option to apply for a year in industry at a pharmaceutical company or top research institute;
- an excellent foundation for careers in biomedical sciences, academia, industry or health services, or medicine;

- innovative educational resources and facilities such as the dynamic laboratory manual eBiolabs (bristol.ac.uk/ebiolabs), designed to prepare you for practical classes by demonstrating concepts and experiments through animations, videos and pre-lab quizzes;
- a real taste of applying research skills in your final-year project, in the laboratory, on the computer working on a bioinformatics project, or perhaps researching the scientific literature.

Our students really enjoy their time in Bristol and find the lecturers inspiring. Cellular and molecular medicine graduates feel well prepared to present their work, to tackle unfamiliar problems and to move on to the next stage in their careers.

'The best things about studying at Bristol are being taught about the cutting-edge research in your field... and the large amount of lab work you get to do as a part of the course, especially the work you do for the final-year project where you may work with an academic within the school or in one of the surrounding hospitals.'

Emma (BSc Cellular and Molecular Medicine)

What will you study?

Our courses are broadly based in biomedical sciences, with an emphasis on the areas of cancer biology, immunology, stem cell biology, microbiology and virology. All courses are also available with Study in Industry as four-year degrees; you can transfer onto these courses after securing a placement during year two.

BSc Cellular and Molecular Medicine has the broadest final year and is currently the course that the majority of our students apply for, while the other courses allow for greater specialisation in the final year. There is a great deal of flexibility and it is possible to transfer between our courses. This allows you to follow your own interests as they develop.

Year one

Your first-year units will introduce the following topics:

- Microbiology and infectious disease
- Cell biology of normal and tumour cells
- Pathology and immunology
- Biochemistry.

Year two

Building on the broad foundation of year one, in the second year you choose an optional unit to study alongside five core units. In the current academic year, second-year core units include:

- Infection and Immunity
- Cellular and Molecular Pathology
- Recombinant DNA Technology
- Gene Expression and Rearrangement.

You will also take our Biomedical Research, Employability and Enterprise Skills unit, which aims to prepare you for the research project in your final year. It also gives you the opportunity to practise making an application for a Study in Industry placement, an internship or future employment, and helps you consider a variety of careers. The research and enterprise strand involves group work and you will prepare a research proposal and learn about commercial aspects of biomedicine. This unit fits well within the research environment, where we aim to take laboratory discoveries through to the clinic where they will benefit patients. Our motto is 'Turning science into medicine'.

In years one and two you will learn in lectures, tutorials, workshops and practical laboratory sessions and will also have time for independent study. Assessment will be via coursework and written examinations.

Year three

In the final year you will study four lecture units. We currently offer:

- Developmental Genetics and Embryonal Cancers
- Cancer Mechanisms and Therapeutics
- Haemopoietic Stem Cell Transplantation
- Regenerative Medicine
- Advanced Immunology
- Immunopathology and Applied Immunology
- Medical Microbiology
- Frontiers in Infectious Diseases
- Medical Virology.

You will also work on a research project in the Biomedical Sciences building or in a laboratory at one of the surrounding hospitals.



'The teaching and support from staff over the three years have been incredible.'

Jannat (BSc Cancer Biology and Immunology)



Careers and graduate destinations

A significant number of our graduates go on to PhD study as the first step in a research career, or postgraduate degrees in a wide range of subjects, including immunology, cancer biology, virology, transfusion and transplantation sciences, bioscience enterprise, cardiology, epidemiology, genetic counselling, infection biology, regenerative medicine, science communication, and media production, as well as areas such as economics, finance and management. Others have gone on to study medicine, dentistry, veterinary science and teaching.

Other graduates go straight into employment, using their practical research skills in industrial or academic biomedical research posts. Our courses provide a broad subject knowledge appropriate for careers in biotechnology and the pharmaceutical industry. Alternatively, some graduates go into careers in education, finance, law, health and social work, management, manufacturing and journalism.

You can see some of our students' stories and learn more about their career destinations online: bristol.ac.uk/cellmolmed/study/undergraduate/stories.

The University of Bristol has one of the best employment records in the UK. We are rated sixth in the UK in the QS Graduate Employability Rankings 2018 and are the fourth most targeted university by top UK graduate employers (High Fliers Research 2018).



Making your application

Typical offer for BSc Cellular and Molecular Medicine*

Visit bristol.ac.uk/ug19-cmm for other qualifications.

A-levels AAB including Chemistry and another core science/mathematics subject (contextual BBB including Chemistry and another core science/mathematics subject, or ABC including AB (in any order) in Chemistry and another core science/mathematics subject[†]).

IB Diploma 34 point overall with 17 at Higher Level, including 6, 5 at Higher Level in Chemistry and another core science/mathematics subject (contextual 31 points overall with 15 at Higher Level, including 5, 5 at Higher Level in Chemistry and another core science/mathematics subject[†]).

English Language profile E^{††}

GCSEs No specific subjects required.

[†]For information on contextual offers, visit bristol.ac.uk/contextual-offers.

^{††}For details of English language profiles, visit bristol.ac.uk/ug-language-requirements.

Selection UCAS or Common Application.

*The typical offer is indicative only and the University accepts a wide range of qualifications. The information is correct at the time of printing (June 2018); however, we recommend you check the University's website for the most up-to-date information: bristol.ac.uk/ug-study.

We are interested to know about you, why you are interested in the subject area and your aspirations for your future career. We welcome applications from those interested in the mechanisms of human disease, including those who are also applying to medicine.

Applicants who receive an offer will be invited to a visit day. This may involve a talk from the admissions tutor, an informal chat with a member of the teaching staff and perhaps a look around their research lab. You will also have the chance to visit displays in our teaching lab and meet current students and staff. It will provide an opportunity for you to get a feel for the school, its activities and the courses we offer.

Further information

Find out more about the School of Cellular and Molecular Medicine: bristol.ac.uk/cellmolmed.

Learn more about eBiolabs: bristol.ac.uk/ebiolabs.

Read more about some of our graduates and their career pathways: bristol.ac.uk/biomedical-sciences/news/2017/careers-evening-2017.html.

Contact us

Enquiries Team

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If you have any questions about courses, applications or any aspect of being a UK or international student at Bristol please contact the Enquiries Team.

Accommodation Office

Tel +44 (0)117 954 6640

Email accom-office@bristol.ac.uk

bristol.ac.uk/accommodation

Disability Services

Tel +44 (0)117 331 0444

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bristol.ac.uk/disability-services

University guide to the city of Bristol

bristol.ac.uk/citybristol

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