



Bournemouth
University

BSc (Hons) Biomedical Science
BSc (Hons) Medical Sciences

#belongatbu @BUBioMed

Contents of this talk



Why BU?



Teaching Team



Biomedical Science



Medical Science



Course options and careers

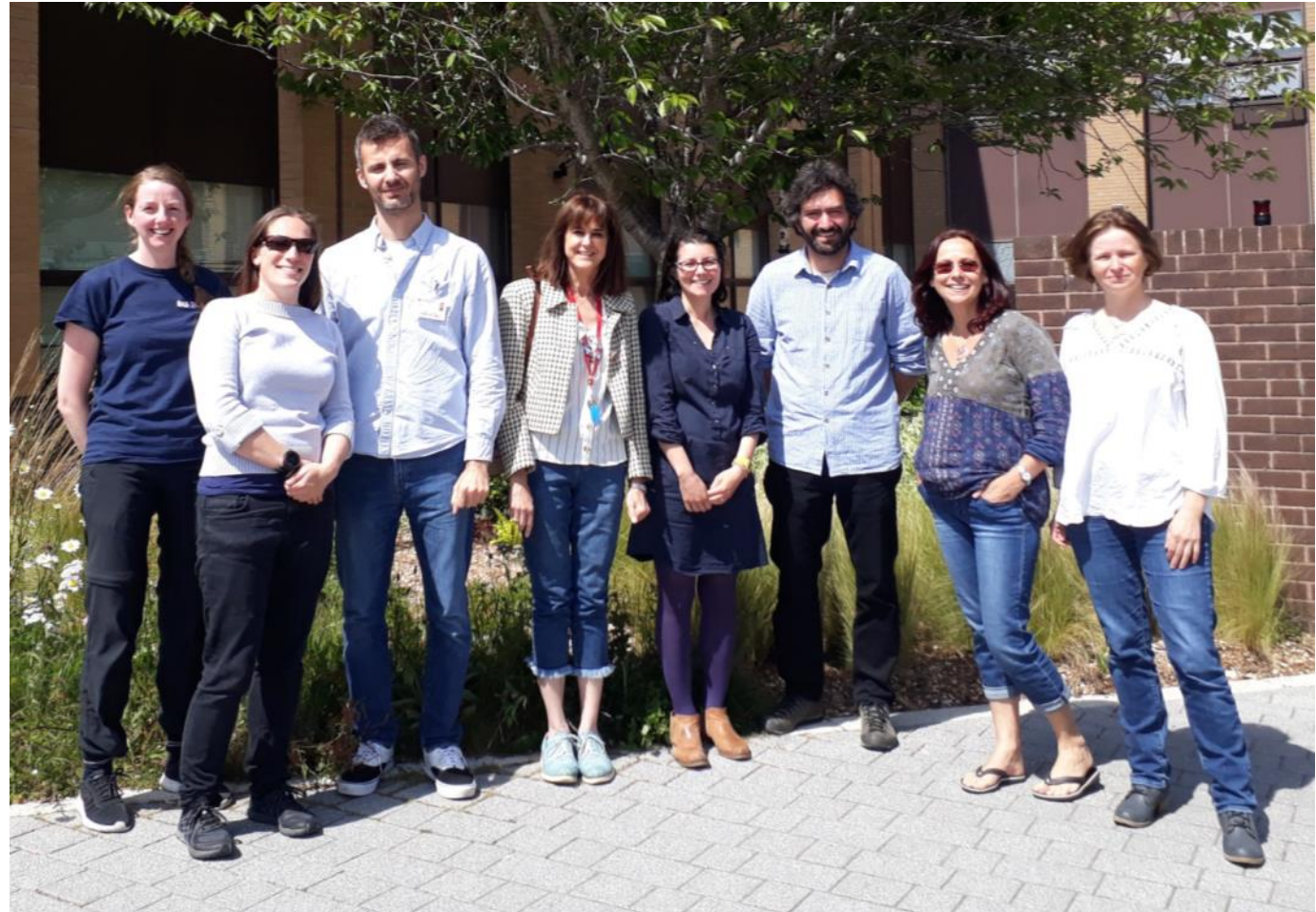


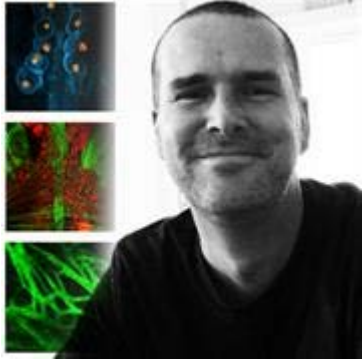
**First university
to be “commended”
for quality of student
learning opportunities**

The Quality Assurance Agency for Higher Education, September 2013

Department Athena SWAN Bronze award

- Athena SWAN recognises good practices in the advancement of gender equality
- Our self-assessment team and action plan continue to improve our practices





Dr Paul Hartley –
Principal Academic
functional Genetics



Dr Sarah Buchan
Lecturer in
Immunology



Dr Wei-Jun Liang - Biological
sciences. Cell and molecular
biology.



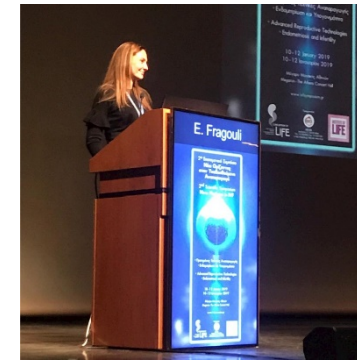
Professor Rick
Stafford, Biostatistical
modelling



Dr Sarah Upson –
Lecturer in
Pharmacology



Prof. Ahmed Khattab –
Professor of Biomedical and
Clinical Research



Doctor Elpida Fragouli
Lecturer in Biomedical
Sciences



Dr Yuataka
Matsubayashi
Lecturer
Advanced
Systems
Biology



Dr Iain Green - Forensic
investigations. Pollution ecology.
Trace metal homeostasis and
detoxification in cells. Soil science.



Dr Jon Cobb
Principal
Academic
Electronics
and Medical
Physics

Programme Leaders

Biomedical Science
Dr Anna
Mantzouratou -
Human genetics;
Infertility, pregnancy
and reproduction
genetics.
Investigations on
human genetic
uniqueness.



Medical Science
Dr Samuel Rennie
Biological and Forensic
Anthropologist with
interests in both Disaster
Victim Identification (DVI)
and Palaeomigration of
the Americas. Sex
determination of skeletal
remains using
multivariate statistics

Biometrics Beach Day 2021 to welcome the new year 1 students



Investing in a campus for the future

SUBU Building 2015



Fusion Building 2016



Investing in a campus for the future



Lansdowne Campus:
Bournemouth Gateway



Talbot Campus:
Poole Gateway



See it for
yourself

Visit our Virtual Tour to
see everything in 360°
[www.bmth.ac.uk/
virtual-tour](http://www.bmth.ac.uk/virtual-tour)

Fusion at Bournemouth



- Optional 30 week placement (3rd year)
- Gain essential work experience
- Dedicated Placement Coordinator
- Help you plan your placement to make sure you get the right experience
- We have a network of employers that are keen to work with placement students

New laboratories ...



Nikon

ZEISS



**ION
OPTIX
CORPORATION**

Supporting you

- AskBU – general support
- On-site childcare facilities
- Careers advice & myCareerHub
- Chaplaincy
- Subject librarians & Library experts
- On-site Police team and campus safety security events
- Student Wellbeing
- Student Advice (Students' Union)
- ResLife

.... To name a few.



Photos: Various, #BUproud

Opportunities for academic and personal development

Peer-assisted learning (PAL) sessions



Academic Advisors



Student Reps



Student Champion



Student Development Awards

BSc (Hons) Biomedical Science

What is Biomedical Science?



- An important component of clinical diagnostics, research into human health and disease, drug and vaccine development.
- Informing and improving human healthcare and medicine.
- We will train you to effectively analyse and interpret results which support diagnosis, monitoring and treatment of disease.

You will be taught by a range of staff with relevant expertise:

- Senior academics
- Qualified professional practitioners
- Demonstrators
- Research students
- Guest lectures from industry

Biomedical Science Overview

Unit Name	Level	Core/Option	Semester	FT credits	PT year 1 credits	PT year 2 credits
Biomedical research skills	4	Core	1	20	20	-
Chemistry	4	Core	1	20	20	-
Introduction to molecular genetics	4	Core	1	20	-	20
Cell Biology	4	Core	2	20	20	
Human anatomy and physiology	4	Core	2	20	-	20
Introduction to immunology	4	Core	2	20	-	20
Credits L4				120	60	60
Advanced Skills for biomedical Science	5	Core	1	20	20	-
Biochemistry	5	Core	1	20	20	-
Advanced Immunology	5	Core	1	20	-	20
Advanced Cell biology	5	Core	2	20	-	20
Introduction to Toxicology	5	Core	2	20	-	20
Introduction to pharmacology	5	Core	2	20	20	-
Credits L5				120	60	60
Biomedical research project	6	Core	1&2	40	-	40
Pathophysiology	6	Core	1	20	20	-
Advanced Topics in Genetics	6	Option	1	Choose one 20 20x2	Choose one 20	-
Epidemiology and infection	6	Option	1			
Biomolecules	6	Option	2	Choose two 20x2	Choose one 20	Choose one 20
Advanced Systems Biology	6	Option	2			
Advanced Pharmacology and Toxicology	6	Option	2			
Credits L6				120	60	60

What will you study on BSc Biomedical Sciences?

Year 1

Biomedical research skills

Introduction to immunology

Introduction to molecular genetics

Cell biology

Human anatomy and physiology

Chemistry



What will you study on BSc Biomedical Sciences?

Year 2

Advanced immunology

Introduction to pharmacology

Advanced skills for biomedical science

Biochemistry

Introduction to toxicology

Advanced cell biology



What will you study on BSc Biomedical Sciences?

Final year

Core units

Biomedical research project

Pathophysiology

Option units (choose 3)

Advanced topics in genetics

Advanced systems biology

Advanced pharmacology and toxicology

Biomolecules

Epidemiology and infection



BSc (Hons) Medical Science

BSc Medical Science

- Medical Science focuses on the cutting edge science that underpins modern medicine, fostering new discoveries and technologies which improve healthcare.
- You will study a comprehensive range of topics within medical science, and gain an in-depth understanding of how our bodies work, how disease is treated and how new technology is evolving in this exciting field.



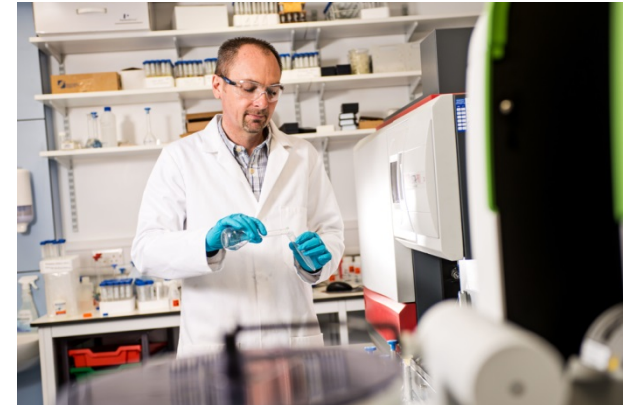
Medical Science – choose your pathway

- You can choose to study Medical Sciences through selecting one of two possible pathways.
- Each pathway provides a strong foundation in medical science, but the flexibility of choosing your own distinct pathway allows you to shape the degree to best suit your future aspirations.



The pathways

- Pathway 1: General Medical Science
- Pathway 2: Psychology focused Medical Science



Medical Science Pathway 1 (General)

Year1

Medical Science Skills

Human Anatomy & Physiology

Chemistry

Cell Biology

Intro to Immunology

Biological & Cognitive Psychology

Year 2

Advanced Skills in Medical Science

Introduction to Pharmacology

Biochemistry

Introduction to Toxicology

Advanced Cell Biology

Osteomechanics

Year 3

Neuroimaging

Medical Science Project (20)

Choose 4

Pathophysiology

Advanced Systems Biology

Advanced Topics in Genetics

Epidemiology & Infection

Advanced Pharmacology & Toxicology



Medical Science Pathway 1 (General)

Year 1

Medical Science Skills

Human Anatomy & Physiology

Chemistry

Cell Biology

Intro to Immunology

Biological & Cognitive Psychology

Year 2

Advanced Skills in Medical Science

Introduction to Pharmacology

Biochemistry

Introduction to Toxicology

Advanced Cell Biology

Osteomechanics

Year 3

Neuroimaging

Medical Science Project (20)

Choose 4

Pathophysiology

Advanced Systems Biology

Advanced Topics in Genetics

Epidemiology & Infection

Advanced Pharmacology & Toxicology

Medical Science Pathway 2 (Psychology)

Medical Science Skills

Human Anatomy & Physiology

Chemistry

Cell Biology

Foundations in Data Analysis

Biological & Cognitive Psychology

Advanced Skills in Medical Science

Introduction to Pharmacology

Biochemistry

Introduction to Toxicology

Advanced Cell Biology

Biological Psychology

Neuroimaging

Medical Science Project (20)

Psychology Project (40)

Choose 2

Pathophysiology

Advanced Systems Biology

Advanced Topics in Genetics

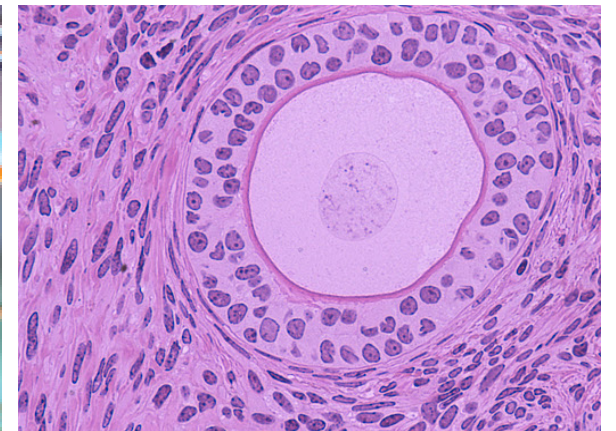
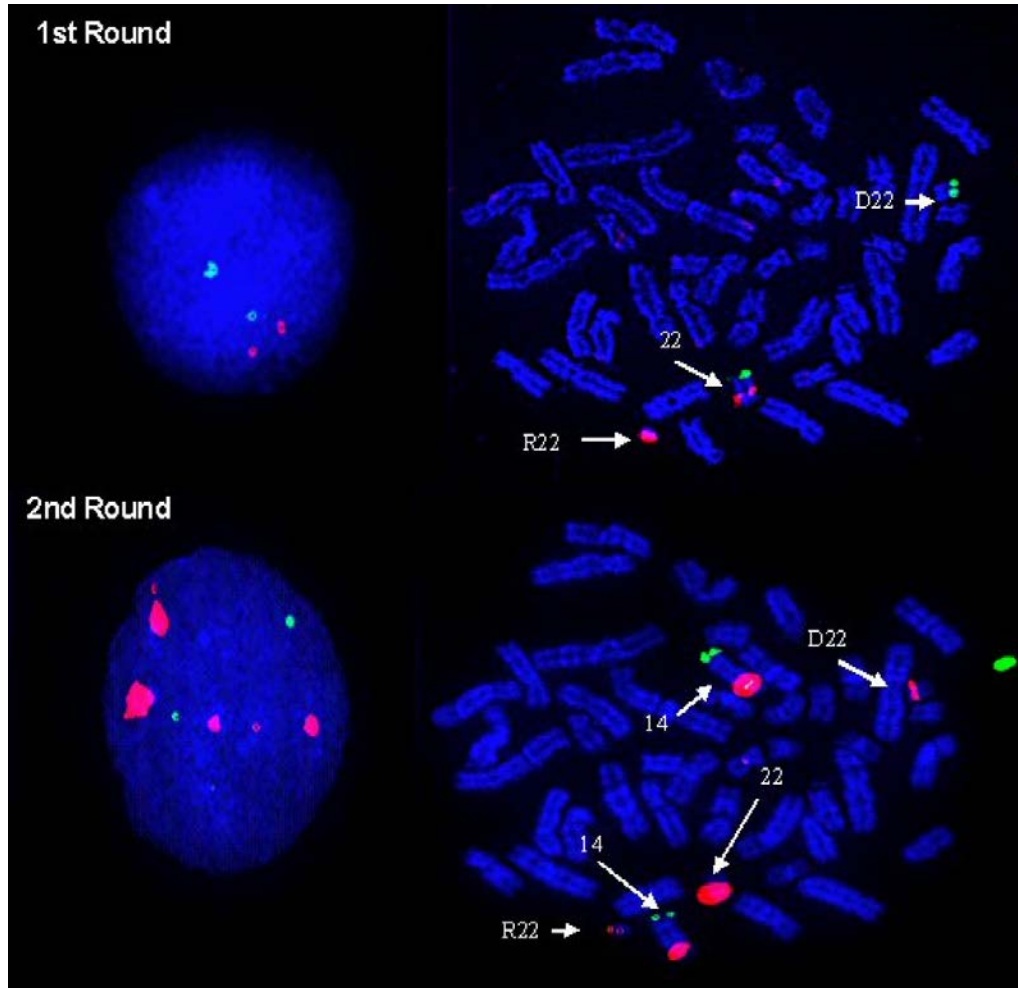
Epidemiology & Infection

Advanced Pharmacology & Toxicology

Biopsychological of mental disorders

Current trends in Clinical neuropsychology and Cognitive neuroscience

Developing your skills in Laboratory Science



Key information

Next start date:

September 2022

Location:

Bournemouth University, Talbot Campus

Duration Biomedical Science:

3 years full-time, or 4 years with a minimum 30-week placement. 6 years part-time, or 8 years with a minimum 30-week placement. Foundation Year: 4 years full-time or 5 years with 30-week placement.

Duration Medical Science:

3 years full-time, or 4 years full-time with a minimum 30-week placement. Foundation year: 4 years full-time or 5 years full-time with a minimum 30-week placement.

Required subjects:

All subjects considered but would be beneficial to have related subject areas

Entry requirements:

For 2022 entry: Please see the [‘Entry requirements’](#) in BU website section for more information.

A-level and AS levels	104–120 UCAS tariff points from a minimum of two A-levels.
Advanced Welsh Baccalaureate – Skills Challenge Certificate	We accept this qualification, but it must be accompanied by an A-level sized qualification to meet the overall UCAS tariff.
Access to HE Diploma	102–118 UCAS tariff points with any combination of Distinction, Merit, Pass grades.
International Baccalaureate Certificates	104–120 UCAS tariff points from a minimum of two Higher Level certificates.

Biomedical scientist

Biotechnologist

Healthcare scientist, clinical biochemistry

Healthcare scientist, genomics

Healthcare scientist, haematology

Healthcare scientist, immunology

Medicinal chemist

Research scientist (medical)

Clinical research associate

Medical sales

Medical engineer

Healthcare IT

Medical technologist

Microbiologist

Physician associate

Toxicologist

Typical employers

- Health Careers - NHS
- Medical Research Council (MRC)
- Food and drink, biotechnology and pharmaceutical industries - offering roles in research and development, quality assurance and sales
- forensic, charity or government-funded laboratories
- NHS Blood and Transplant (NHSBT)
- private pathology laboratories
- Public Health England
- publishing companies and the specialist press employ medical science writers and editors
- The Francis Crick Institute
- University academic departments.

Bournemouth – a great place to study and live



Your future?



Thank You for your attention!

Any questions?