

Studying Medicine at Oxford



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**Department of Physiology Anatomy and
Genetics**

3-year pre-clinical course and then 3-year clinical course

Strong emphasis on Science and its Clinical Application

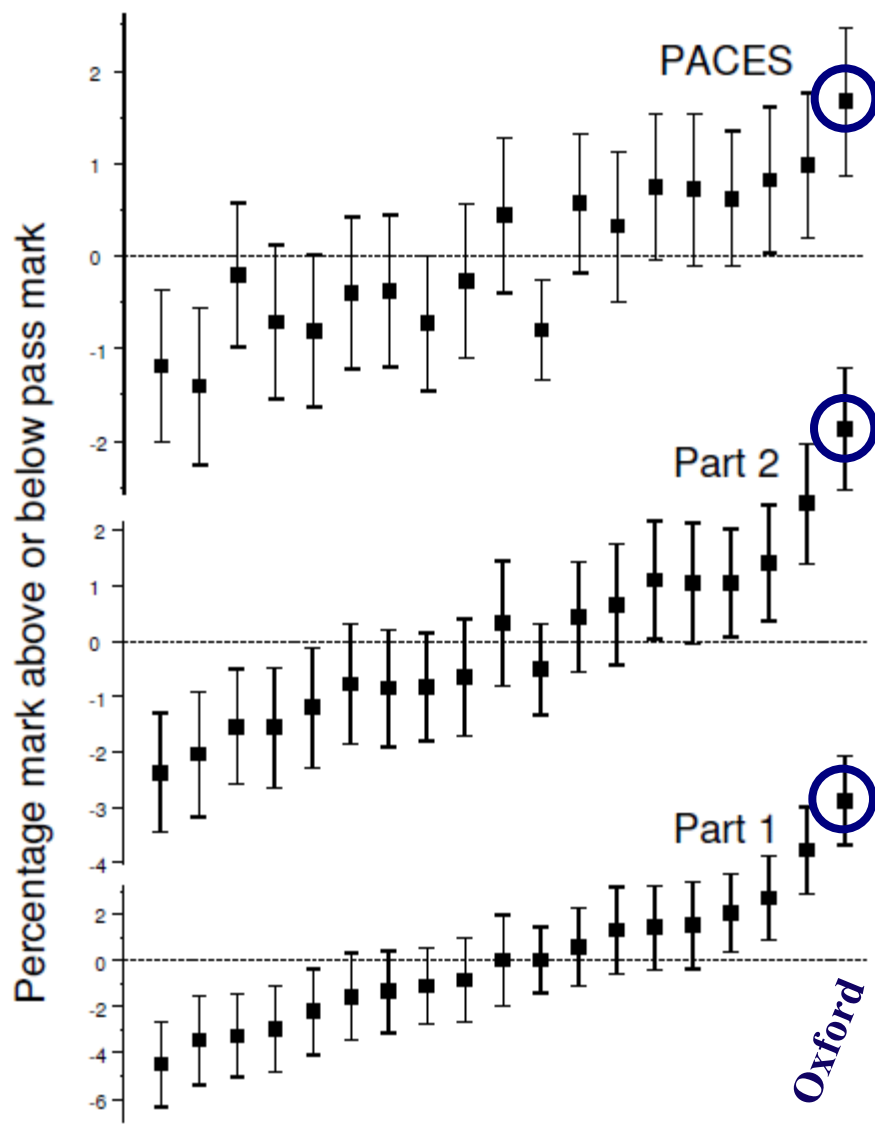
Colleges provide small scale academic community and tutorial teaching

Why study Medicine at Oxford?

- One of the top ranked medical schools in the UK and the World
- National Student Survey consistently over the past years Oxford is the top medical school in the UK
- Be part of the highest ranking biomedical sciences institution in the UK and one of the leading research and teaching Universities in the world



Oxford Students Performance on Royal College of Physicians Part 1, Part 2 and PACES Examinations 2003 – 2005



**The Royal College of Anesthetists
examinations 1999 - 2008**

Oxford **92.6 %**
next highest **89.3%**

**The Royal College of Obstetricians
& Gynecologists Part 1 and Part 2
exams 1998 - 2008**

Oxford
Part I 82.6% **Part II 82.4%**
Next highest
Part I 75% **Part II 81%**

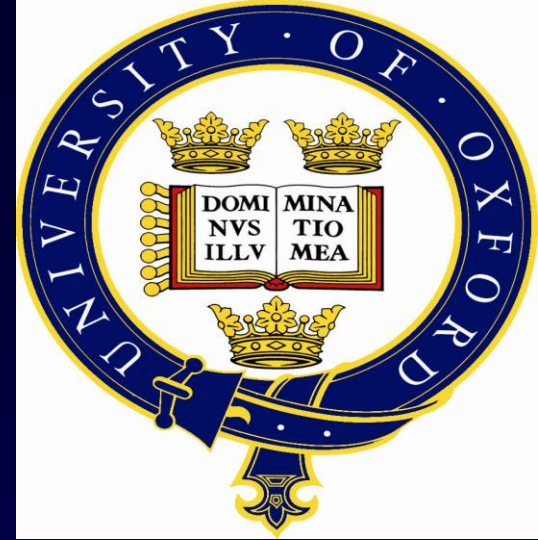
Oxford Tuition Fees.

- Students now pay fees of up to £9,000, which will be paid back each month through taxation after students have left University, but only if they earn over £21,000.
- Oxford has put in place the most generous support package of all UK Universities for students from low income families.
- Students with a household income of £16,000 or less will only pay fee of £3,500 in the first year, and to £6,000 in subsequent years, so their debt to the Government will be reduced considerably.
- To help pay living expenses, there are also Oxford bursaries of £3,000 -£4,000 per year, which never have to be paid back.
- Students with a household income of up to £25,000 will also have reduced fees and help with their living expenses .
- All students with household incomes up to £42,600 will get some financial support

Oxford is not an expensive place to study.

- **Colleges are able to offer relatively cheap accommodation, with rent payable only during term time (8 weeks) rather than the whole year.**
- **Food and drink in Colleges are subsidised, so students can eat well at a low cost.**
- **College all have libraries which have all the main text books, so students will often not need to spend money on books.**
- **Oxford is a compact city and many of the Colleges, Departments, Libraries and other facilities are a short walk or bike ride away. There is no need to spend money on public transport in Oxford.**
- **Many Colleges also offer study grants, travel grants and scholarships and awards for doing well in examinations.**

The Oxford Medical Degree Course is Six years



3-year pre-clinical science course

- Bachelor of Medicine part I
- Final Honours degree in Medical Sciences - BA

Apply to clinical school (London - Cambridge - Oxford)

3-year clinical course

- Bachelor of Medicine part II - BM:BCCh

The Pre-clinical Course at Oxford the first three years

Year 1

First BM: Part I

Three eight week terms - Exams

Year 2

First BM: Part II

Two eight week terms

Term 6 Exams then start Finals

Year 3

BA in Medical Sciences (Final Honours course)

Principles of Clinical Anatomy

Year 1 First BM: Part I

Lectures and Practicals supported by College Tutorials in Pre-Clinical Sciences

- **Organization of the Body**
- **Physiology & Pharmacology**
- **Biochemistry & Medical Genetics**
- **Medical Sociology**

Patient & Doctor Course

ORGANIZATION OF THE BODY



Principles of Anatomy - structure and function

Embryology

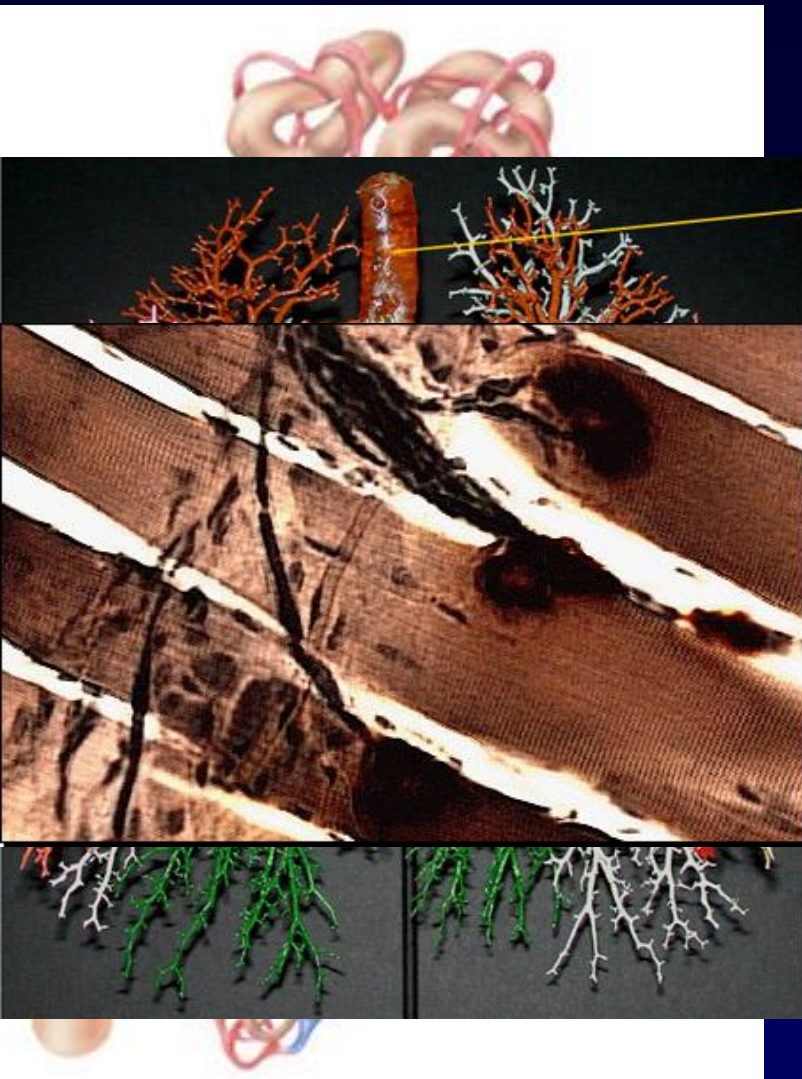
Histology

Endocrinology and

Human reproduction

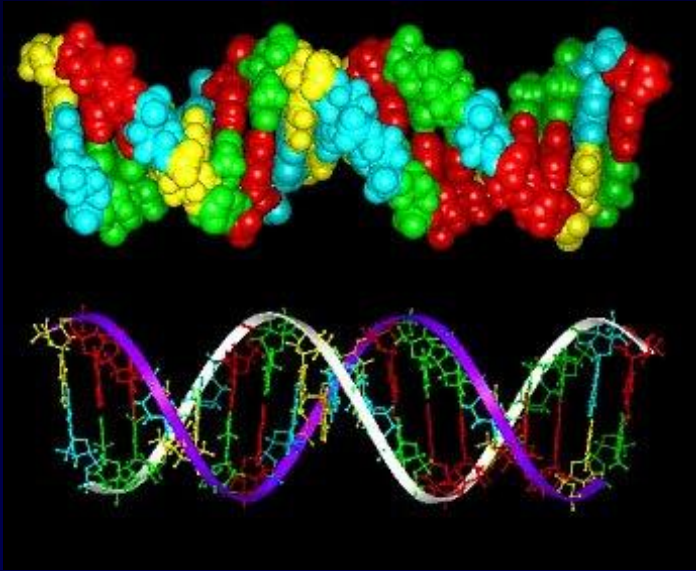


PHYSIOLOGY & PHARMACOLOGY

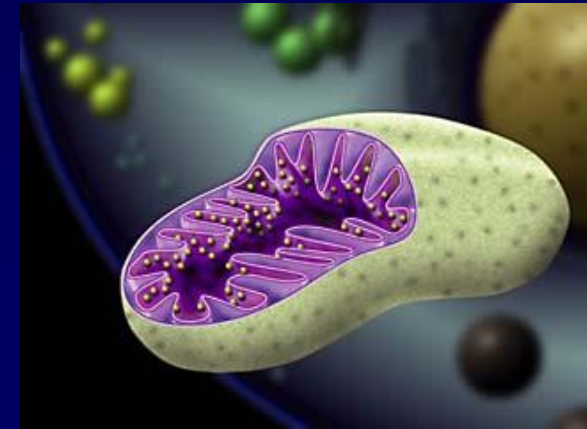


- Excitable tissues - nerve, muscle and synapse
- Cardiovascular and respiratory systems
- Renal and gastrointestinal systems

BIOCHEMISTRY & MEDICAL GENETICS



- Genes & proteins - protein structure and function
- Molecular Biology and Medical Genetics
- Metabolism
- Integrative Biochemistry - roles of the organs



MEDICAL SOCIOLOGY

- The doctor-patient relationship
- Social class, ethnicity and health
- Ageing
- Illness and behaviour
- The NHS and rationing of health care

First BM Exams

Formal Exams are kept to a minimum!

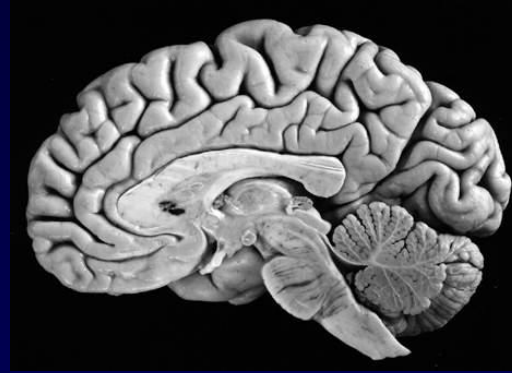
(regular informal formative assessments)

- **At the end of the 1st year are the main exams**
- **3 major subjects each with an essay paper and a basic 'core' electronic exam**
- **Medical sociology one paper**

YEAR 2 First BM: Part II - Terms 4 & 5

- **Systems of the body: integrative aspects**

- **Nervous System**

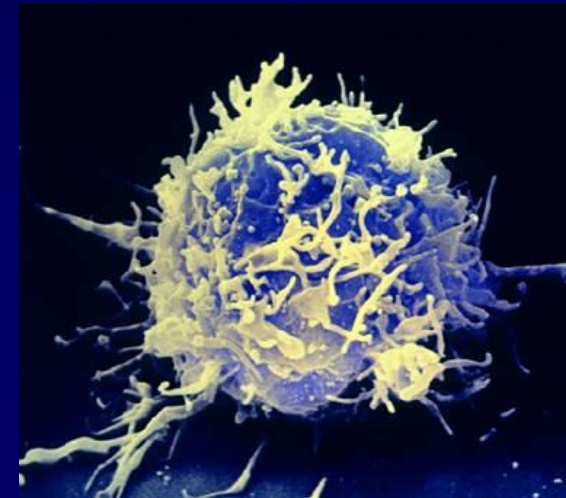


- **General Pathology & Microbiology**

- **Psychology for Medicine**

Patient & Doctor Course *continues*

Exams in Summer term in year 2

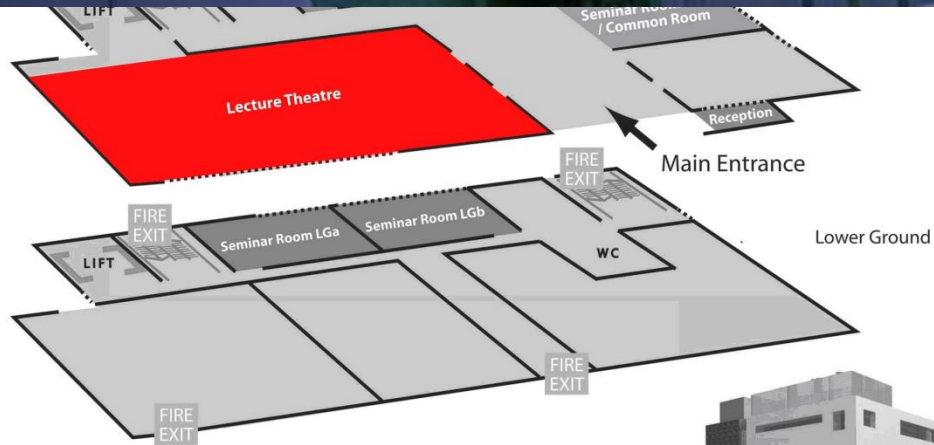


The Medical Sciences Teaching Centre

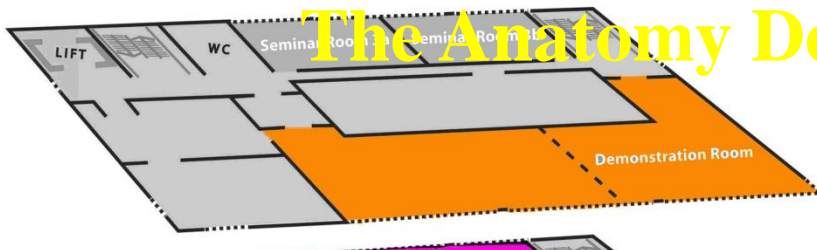


Purpose built centre just for medical students

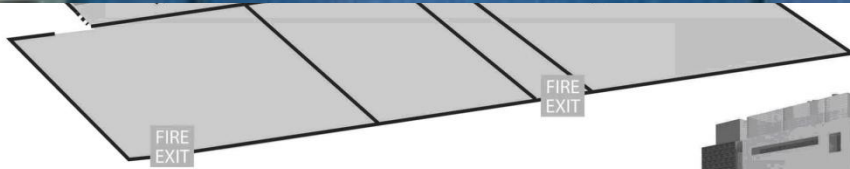
Lecture theatre



The Anatomy Demonstration room



3rd Floor



Medical Sciences Teaching Centre

Physiology and Biochemistry lab

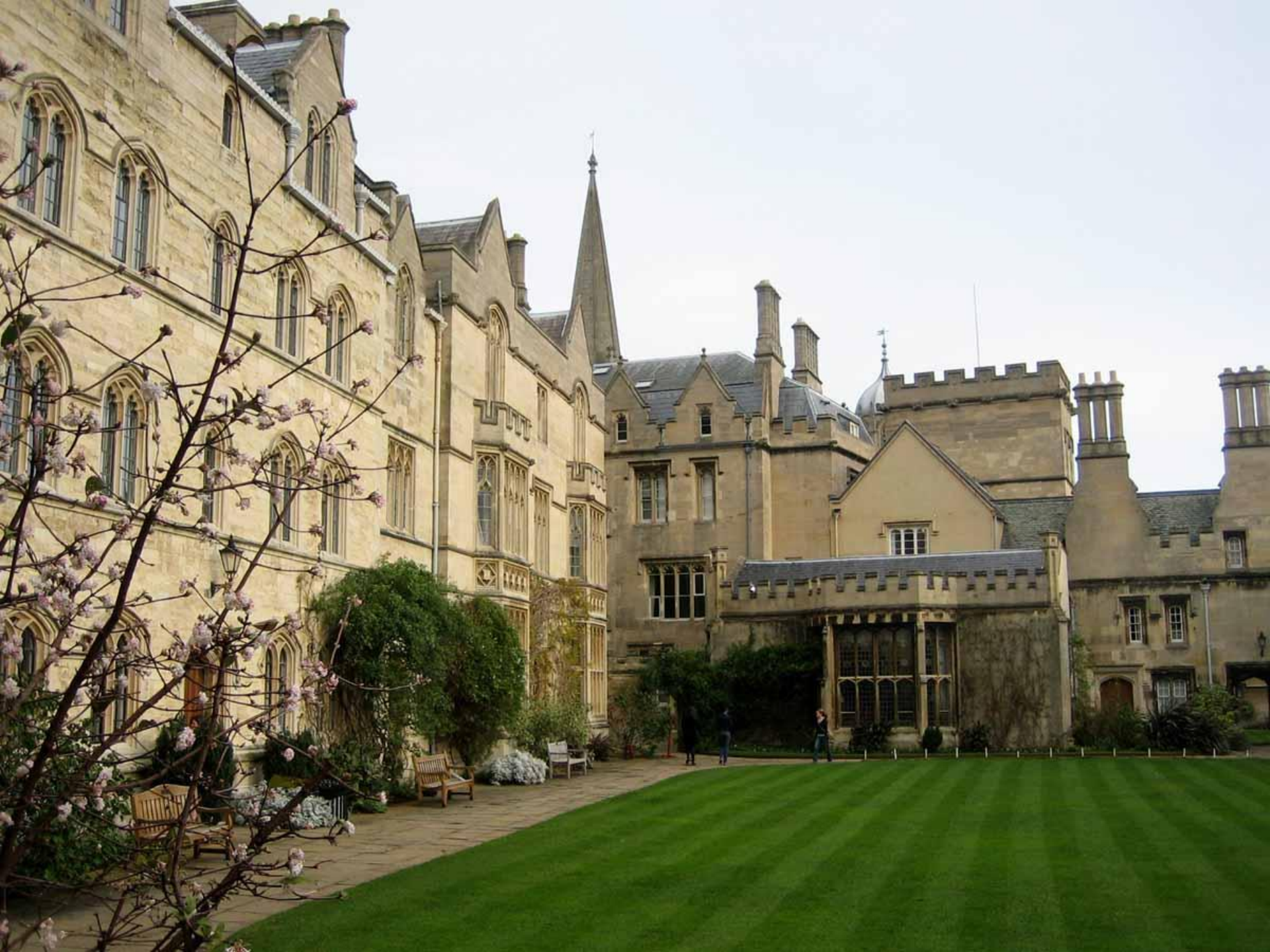


Neuroanatomy and Pathology Lab



Computing lab





College Tutorials

First and second year tutorials in subjects covered in the BM are taught in College

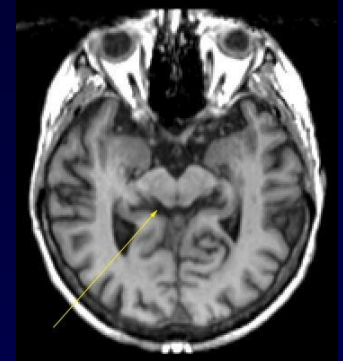


FHS advanced tutorials are provided by tutors and research staff from across the medical school

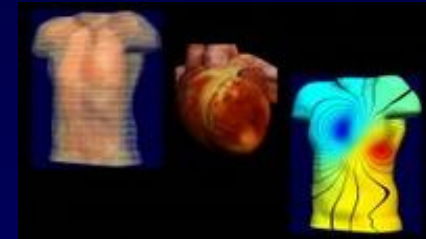
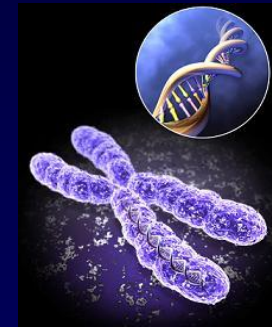
Final Honours Course BA in Medical Sciences

There are five options to choose from:

- **Neuroscience**

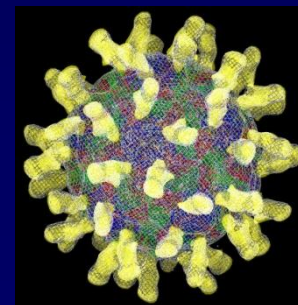


- **Molecular Medicine**

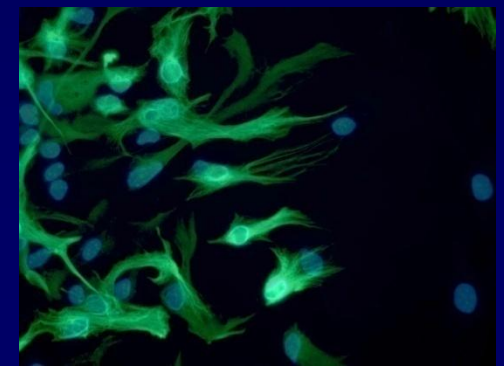


- **Myocardial, Vascular & Respiratory Biology**

- **Infection & Immunity**



- **Signalling in Health & Disease**



Final Honours Course in Medical Sciences

Starts after BM exams in summer term year 2, with a research project based in one of the many laboratories in the Oxford Medical Sciences Division.

- Lectures in chosen option (Y3)
- Seminars in chosen option (Y3)
- Tutorials in chosen option (Y3)
- Research Project
- Scientific essay in different topic



Lickiss T, Cheung AF, Hutchinson CE, Taylor JSH, Molnár Z. (2012). Examining the relationship between early axon growth and transcription factor expression in the developing cerebral cortex. *J Anat.* 220:201-11.

Examples of Research Projects

A microscopic image of neurons, likely from the optic nerve, showing a complex network of axons and cell bodies. The neurons are stained with a red dye, and some cell bodies are highlighted with a yellow or green fluorescent signal. The background is dark, making the stained structures stand out.

Role of the inhibitory protein
Nogo in optic nerve myelination

The regulation of
dopamine transmission
by neurons in the basal
ganglia

Imaging cardiac development

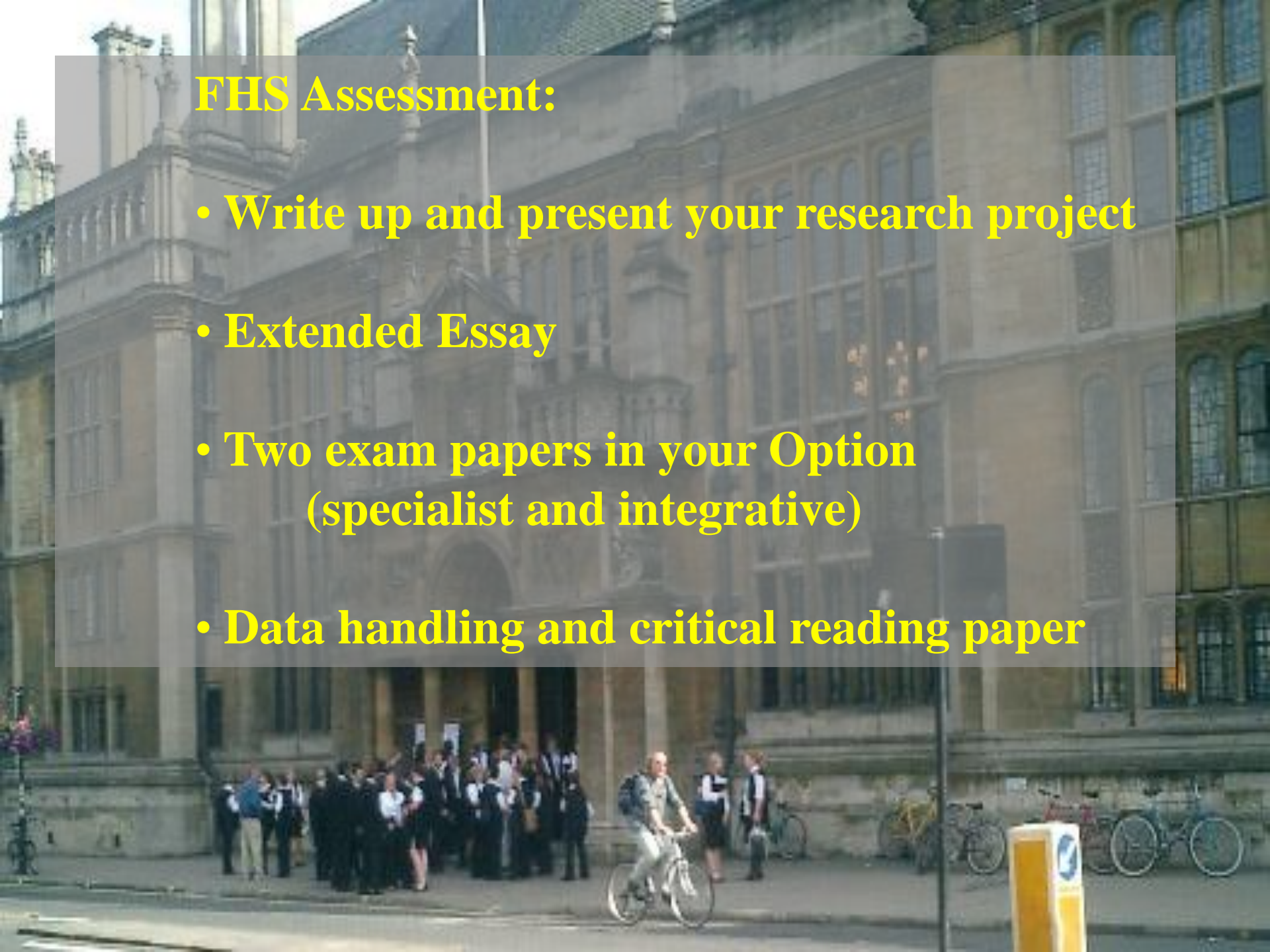
Patella tracking following knee replacement

Relation between verbal reasoning ability
and grammatical understanding in 7-year olds

Influenza transcription and replication:
Effect of viral promoter sequence

FHS Assessment:

- **Write up and present your research project**
- **Extended Essay**
- **Two exam papers in your Option (specialist and integrative)**
- **Data handling and critical reading paper**



PRINCIPLES OF CLINICAL ANATOMY

Taught as a three-week block

- preparation for Clinical School
- Clinicians involved every day



Fig. 9/37



Clinical School

The John Radcliffe Hospital Headington



Children's
Hospital and
West Wing

Neurology and
Eye Hospital



What are we looking for?

**A PASSION FOR
EXCELLENCE**

Any Questions?

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PRE-CLINICAL			CLINICAL		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Part I (3 terms)</p> <p>Organisation of the Body</p> <p>Physiology and Pharmacology</p> <p>Biochemistry and Medical Genetics</p> <p>Medical Sociology</p> <p>Patient and Doctor Course</p> <p>Part I Examination</p>	<p>Part II (2 terms)</p> <p>Integrative Systems of the Body</p> <p>The Nervous System</p> <p>General Pathology and Microbiology</p> <p>Psychology for Medicine</p> <p>Patient and Doctor Course</p> <p>Part II Examination</p>	<p>FHS (4 terms)</p> <p>Students select from scientific options, which typically include:</p> <ul style="list-style-type: none"> - Neuroscience - Genes and Development - Respiratory and Cardiovascular Physiology - Infection and Immunity - Signalling in Health and Disease <p>Research project</p> <p>BA Medical Sciences</p> <p>Qualifying Examination in the principles of Clinical Anatomy</p>	<p>Threaded throughout the three years is Ethics and Law, Evidence Based Medicine, Communication Skills, Pharmacology and Radiology</p> <p>Patient and Doctor Course 2 including GP residential attachment</p> <p>Laboratory Medicine</p> <p>Medicine</p> <p>Surgery rotation</p> <p>DGH attachment</p> <p>Special Study Module</p> <p>Staged Assessment</p>	<p>Paediatrics</p> <p>Obstetrics and Gynaecology</p> <p>Psychiatry</p> <p>Neurology, Neurosurgery, ENT and Ophthalmology</p> <p>Orthopaedics, Accident and Emergency and Musculo-skeletal Medicine</p> <p>Public Health, Primary Health Care, Clinical Geratology and Palliative Care, Dermatology</p> <p>Staged Assessment</p>	<p>Medicine/Surgery</p> <p>DGH attachment</p> <p>Dermatology</p> <p>Clinical options</p> <p>Exam in general clinical skills</p> <p>Vocational skills</p> <p>Elective</p> <p>Special study</p> <p>Preparing for Practice as a Doctor</p> <p>PRHO shadowing attachment</p> <p>BM, BCh (Bachelor of Medicine and Bachelor of Surgery)</p>