

## Lectures proposed by the Boards of the Faculties of Earth Sciences and Geography, Physics and Chemistry, Biology, and Mathematics, and the Board of History and Philosophy of Science

For particulars of the University Composition Fee and of the fees payable for attendance at separate courses of lectures see p. 2.

### MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA

#### *Introduction to the Course*

W. 12 (9 Oct.) Dr C. McAllan and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*

W. 11 (9 Oct.) Mr J. Grandage, Dr D. Chivers, Mr M. Herrtage (Veterinary Students) *Physiology Lecture Theatre 3*

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#### CELL BIOLOGY

Course Organiser: Dr C. Print E-mail: [cgp22@cam.ac.uk](mailto:cgp22@cam.ac.uk)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

This is an introductory course in Cell Biology for students who do not have A-level Biology

#### Lectures.

TO BE ANNOUNCED

(Six lectures 12 noon and 4 on 10, 11 and 15 Oct.)

*Babbage Lecture Theatre*

#### FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

*At the Anatomy School unless otherwise stated*

Course Organiser: Dr I. G. Parkin E-mail: [igp20@mole.bio.cam.ac.uk](mailto:igp20@mole.bio.cam.ac.uk)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

#### Lectures. W. F. 9

*Anatomy Lecture Theatre*

DR I. G. PARKIN

Introduction (One lecture, 11 Oct.)

PROF. A. DIXON

Imaging (One lecture, 16 Oct.)

DR I. G. PARKIN

Musculo-Skeletal System: Bones, Joints and Muscles  
(Two lectures, 18, 23 Oct.)

DR M. N. S. HUNT

Ethics, Attitudes and Communication (One lecture,  
25 Oct.)

DR I. G. PARKIN

Principles of Body Systems (Nervous and  
Cardiovascular) (Two lectures, 30 Oct., 6 Nov.)

MR R. H. WHITAKER

Autonomic Nervous System (One lecture, 8 Nov.)

DR S. A. EDGLEY

Musculo-Skeletal System: Posture and Gait (One  
lecture, 20 Nov.)

DR I. G. PARKIN

Principles of Lymphatic Drainage and Breast (One  
lecture, 27 Nov.)

DR I. G. PARKIN

Nerve Injuries. (One lecture, 29 Nov.)

DR I. G. PARKIN

Principles of Fascia. (One lecture, 4 Dec.)

Formative Mid Term Anatomy MCQ 15 Nov.

#### Special Periods

DR I. G. PARKIN

Clinical Demonstration: 6 Dec. 10-12. *William Harvey  
Lecture Theatre, Addenbrooke's*

#### Practical Work

Dissection and Prosections\*.

Allocation of Cadavers and Introduction to Anatomy:  
9 Oct. at 10

Dissection and Prosection: M. 10-12 and F. 2-4 or Tu.  
10-12 and Th. 10-12.

Anatomy of Procedures: W. 10-12 or 2-4 (fortnightly).

#### Lectures. W. F. 9

*Anatomy Lecture Theatre*

MR R. H. WHITAKER

Principles of Cranial Nerves (Three lectures,  
17, 22, 24 Jan.)

DR S. J. BRAY

Embryology: Development of Body Plan,  
Embryonic Folding, Cranial Facial  
Development, Cardiovascular and G.I.T.  
(Four lectures, 29, 31 Jan., 19, 28 Feb.)

MR R. H. WHITAKER

The Ear (One lecture, 12 Feb.)

DR I. G. PARKIN

Chewing and Swallowing (One lecture, 7 Feb.)

MR R. H. WHITAKER

The Larynx (One lecture, 5 Feb.)

MR R. H. WHITAKER

Nerve Supply within the Abdominal Cavity  
(One lecture, 26 Feb.)

DR I. G. PARKIN

Anatomy Changing with Age (One lecture,  
5 Mar.)

Formative End Term Anatomy MCQ 7 Mar.,  
F. 9

DR I. G. PARKIN AND DR R. H. WHITAKER

Exam technique and feedback (One lecture,  
W. 12 Mar. 9 a.m.)

DR I. G. PARKIN

Clinical Demonstration: 14 Mar. 2-4 *William  
Harvey Lecture Theatre, Addenbrooke's*

Dissections and Prosections\*

Anatomy of Procedures: The same continued.

#### Lectures. W. F. 9

*Anatomy Lecture Theatre*

MR R. H. WHITAKER

Rectum and Anal Canal (One lecture,  
25 Apr.)

MR R. H. WHITAKER

Urinary Continence and Incontinence (One  
lecture, 30 Apr.)

MR R. H. WHITAKER

Male Reproductive Tract (One lecture,  
2 May)

MR R. H. WHITAKER

Abdominal Wall, Hernias and Inguinal  
Canal (One lecture, 7 May)

DR S. J. BRAY

Embryology (Continued): Urogenital (One  
lecture, 9 May)

Dissections and Prosections\*

Anatomy of Procedures: The same continued.

\* The Dissection Room is available to students between 10 and 12; and 2 and 4, and students should attend as instructed.

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)**

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**HISTOLOGY**Course Organiser: Dr J. T. Tiffert E-mail: [jtt1000@cam.ac.uk](mailto:jtt1000@cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst/html>*Students will be notified of the time at which they should attend each of the classes***Practical Work Department of Physiology**

1. Introduction to microscopy and cell structure F. 2-4 (11 Oct.); or M. 10-12 or 2-4 (14 Oct.); or W. 2-4 (16 Oct.); or F. 2-4 (18 Oct.); or W. 2-4 (23 Oct.)
2. Connective tissue, nerve and neuromuscular junction F. 2-4 (25 Oct.); or M. 10-12 or 2-4 (28 Oct.); or W. 2-4 (30 Oct.); or F. 2-4 (1 Nov.); or W. 2-4 (6 Nov.)
3. Striated, cardiac and smooth muscle F. 2-4 (8 Nov); or M. 10-12 or 2-4 (11 Nov.); or W. 2-4 (13 Nov); or F. 2-4 (15 Nov.); or W. 2-4 (20 Nov.)
4. Vascular system and blood F. 2-4 (22 Nov.); or M. 10-12 or 2-4 (25 Nov.); or W. 2-4 (27 Nov.); or F. 2-4 (29 Nov.); or W. 2-4 (4 Dec.)

**Practical Work Department of Physiology**

5. Epithelia and skin F. 2-4 (17 Jan.); or M. 10-12 or 2-4 (20 Jan.); or W. 2-4 (22 Jan.); or F. 2-4 (24 Jan.); or W. 2-4 (29 Jan.)
6. Respiratory system F. 2-4 (31 Jan.); or M. 10-12 or 2-4 (3 Feb.); or W. 2-4 (5 Feb.); or F. 2-4 (7 Feb.); or W. 2-4 (12 Feb.)
7. Alimentary System F. 2-4 (14 Feb.); or M. 10-12 or 2-4 (17 Feb.); or W. 2-4 (19 Feb.); or F. 2-4 (21 Feb.); or W. 2-4 (26 Feb.)
8. Urinary system and adrenal gland F. 2-4 (28 Feb.); or M. 10-12 or 2-4 (3 Mar.); or W. 2-4 (5 Mar.); or F. 2-4 (7 Mar.); or W. 2-4 (12 Mar.)

**Practical Work Department of Physiology**

9. Liver pancreas and salivary glands F. 2-4 (25 Apr.); or M. 10-12 or 2-4 (28 Apr.); or W. 2-4 (30 Apr.); or F. 2-4 (2 May); or W. 2-4 (7 May)
10. Thyroid, parathyroid, pituitary gland and revision exercises F. 2-4 (9 May); or M. 10-12 or 2-4 (12 May); or W. 2-4 (14 May); or F. 2-4 (16 May); or W. 2-4 (21 May)

**HOMEOSTASIS**Course Organiser: Dr R. H. S. Carpenter E-mail: [rhsc1@cam.ac.uk](mailto:rhsc1@cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>Further details at <http://www.physiol.cam.ac.uk/PartIA/Homeostasis.html>**Lectures. Tu. Th. F. 12 Babbage Lecture Theatre**

DR R. H. S. CARPENTER

Introduction; Cellular electrophysiology and nerve (Seven lectures, 18 Oct.-1 Nov.)

DR C. L-H. HUANG

Muscle (Five lectures, 5 Nov.-14 Nov.)

DR R. J. BARNES

Heart and circulation (Nine lectures, 15 Nov.-5 Dec.)

**Practical Work**

Experimental Physiology M. 10-12 or 2-4 or W. 10-12 or F. 10-12

**Lectures. Tu. Th. F. 12 Babbage Lecture Theatre**

DR M. J. MASON

Respiration (Nine lectures, 16 Jan.-4 Feb.)

DR T. TIFFERT

Digestion, absorption and storage (Six lectures 6-18 Feb.)

DR S. O. SAGE

Fluids and electrolytes (Ten lectures, 20 Feb., 13 Mar.)

**Practical Work**

The same continued.

**Lectures. Tu. Th. F. 12 Babbage Lecture Theatre**

DR S. L. DICKSON

Energy balance and growth (Four lectures, 24 Apr.-1 May)

DR R. I. WOODS

Temperature control (Two lectures, 2, 6 May)

**Practical Work**

The same continued.

**MOLECULES IN MEDICAL SCIENCE***In the Babbage Lecture Theatre, New Museums Site*Course Organiser: Dr P. H. Rubery E-mail: [phr2@cam.ac.uk](mailto:phr2@cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst/html>**Lectures.**

M. 12, Tu. Th. 9

**Introduction**

DR P. H. RUBERY

Introduction to the course (One lecture, 14 Oct.)

**Metabolism in health and disease**

PROF. K. SIDDLER

Prologue. Diabetes mellitus as a metabolic disease (Two lectures, 15-17 Oct.)

DR N. J. GAY

Protein structure and enzyme catalysis (Five lectures, 21-29 Oct.)

DR P. H. RUBERY

Bioenergetics and metabolism (Eight lectures, 31 Oct.-19 Nov.)

DR M. O'CONNELL

Nutrition (Two lectures, 19-21 Nov.)

M. 12, Tu. Th. 9. W. 12 (Mar. 5 only)

There is no lecture on 4 Mar.

**Macromolecules in health and disease**

PROF. J. C. METCALFE

Prologue. Cancer as a molecular disease (Two lectures, 16-20 Jan.)

DR S. BELL

Organisation, replication and repair of genome (Four lectures, 21-28 Jan.)

DR N. M. STANDART

Transcription, translation and control (Five lectures, 30 Jan.-10 Feb.)

DR N. J. GAY

Proteins in action: structure and function (Two lectures, 11-13 Feb.)

M. 12, Tu. Th. 9

**Macromolecules in health and disease (continued)**

DR C. SHAW-SMITH

Applications and implications of genome projects (One lecture, 24 Apr.)

DR D. W. MACDONALD

Genetics of complex diseases (Three lectures, 28, 29 Apr., 1 May)

*continued >*

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)**

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PROF. R. F. IRVINE  
Membrane dynamics and function; signalling by hormones (Five lectures, 25 Nov.–3 Dec.)  
PROF. K. SIDDLE  
Epilogue (One lecture, 5 Dec.)

**Practical Work**

Experimental work and discussion; problem-based learning exercise *Department of Biochemistry, Downing Site* Detailed scheme in course handbook.

PROF. A. H. WYLLIE  
Control of proliferation, proto-oncogenes and cancer (Three lectures, 17–20 Feb.)  
DR D. TRUMP  
Transmission of genetic inheritance and the experimental tools of molecular genetics (Five lectures, 24 Feb.–3 Mar., 5 Mar. at 12)  
PROF. J. C. METCALFE  
Mesologue cancer therapy (One lecture, 10 Mar.)

**Practical Work**

The same continued.

**Practical Work**

The same continued.

**VETERINARY ANATOMY AND PHYSIOLOGY**  
(Veterinary Students)

Course Organiser: Mr J. Grandage E-mail: [jg3@mole.bio.cam.ac.uk](mailto:jg3@mole.bio.cam.ac.uk)  
Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

*In the Biffen Lecture Theatre, Department of Genetics,  
(Lent and Easter terms, Michaelmas term Hopkinson Lecture Theatre, New Museums Site unless otherwise stated)*

**Lectures.** M. W. F. 9, Tu. 2

DR D. J. CHIVERS AND MR J. GRANDAGE  
Introduction (Two lectures, 11, 14 Oct.)  
DR D. J. CHIVERS, MR J. GRANDAGE AND DR J. M. HOLMES  
The Locomotor System. (Ten lectures, 16, 18, 21, 23, 28, 30 Oct., 4, 6, 25, 26 Nov.)  
DR S. J. BRAY AND DR D. TANNAHILL  
Development. (Three lectures, 11, 13, 18 Nov.)  
DR J. M. HOLMES  
The Nervous System. (Three lectures, 27 Nov., 2, 4 Dec.)

**Practical Work**

Dissection of the domestic animals, examination of live animals, fresh viscera, radiographs, laboratory work and other activities. (Tu, and Th. 10–12 and F. 10–12 or 2–4 and occasionally Tu. or Th. 2–4.  
*In the Veterinary Dissecting Room and other Venues*

**Lectures.** M. W. F. 9, Tu. 2

MR J. GRANDAGE AND DR J. M. HOLMES  
The Cardiovascular System. (Five lectures, 17, 21, 22, 27, 29 Jan.)  
DR S. J. BRAY  
Development. (Two lectures, 20 Jan., 17 Feb.)  
DR J. H. BRACKENBURY  
The Respiratory System. (Four lectures, 3, 5, 10, 12 Feb.)  
MR J. GRANDAGE  
Urinary System. (Two lectures, 19, 24 Feb.)  
DR D. J. CHIVERS  
The Digestive System. (Four lectures, 26 Feb., 3, 5, 10 Mar.)

**Practical Work**

The same continued.

**Lectures.** M. W. F. 9

DR D. J. CHIVERS, DR A. EDWARDS AND DR J. HICKSON  
The Digestive System. (Eight lectures, 25, 28, 30 Apr., 2, 7, 9, 12, 14 May)

**Practical Work**

The same continued.

**INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE**

(All students: SECOND M.B. &amp; SECOND VET M.B. EXAMINATION)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>  
Course Co-ordinator: contact Faculty Office E-mail [facbiol@mole.bio.cam.ac.uk](mailto:facbiol@mole.bio.cam.ac.uk)

**Lectures.**

*Babbage Lecture Theatre*  
W. 12 (Seven lectures, 23–4 Dec.)  
PROF. K. T. KHAW  
Epidemiology, risk, methods, screening, inference and causation  
DR C. PALMER  
Biostatistics; estimating population measures (30 Oct., 4 Dec.)

W. 12 (Three lectures, 22, 29 Jan., 5 Feb.)  
DR C. PALMER  
Biostatistics cont.; testing hypotheses, comparing groups, interpreting research

**MEDICAL SOCIOLOGY**

(Medical students: SECOND M.B. EXAMINATION)

Course Organiser: vacancy  
Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

Tu. 2–3 15 Oct. *Anatomy Lecture Theatre*

*Lectures are being replaced by computer based distance learning material, based on the previous ten lecture course*

The material will be available to those wishing to take the course at:  
<http://www.medgraphics.cam.ac.uk/medsoc/>  
For enquiries please telephone:  
Dawn Leeder (700-3561) E-mail: [dcl25@cam.ac.uk](mailto:dcl25@cam.ac.uk)

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)**

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LENT 2003

EASTER 2003

**PREPARING FOR PATIENTS A (FIRST YEAR STRAND)****(Medical students: SECOND M.B. EXAMINATION)**Course Organiser: Dr J. Silverman E-mail: [js355@medschl.cam.ac.uk](mailto:js355@medschl.cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

There are four strands to this course, which run over the three pre-clinical years of study

DR J. BENSON AND DR J. SILVERMAN

Briefings. Tu. 2-4, 22 or 29 Oct, or 5 or 12 Nov.

*Physiology Lecture Theatre 3*General Practitioner visits 2-5, 29 Oct. or 5 or 7 or 12 or 19  
or 21 or 26 or 28 Nov., or 3 Dec.

General Practitioner visits 2-5, 16 or 23 or

28 Jan., or 4 or 11 or 13 or 18 or 20 Feb.

DR J. BENSON AND DR J. SILVERMAN

Review 2-4, 28 Jan. or 10 or 11 or 17 or 18 or 24  
or 25 Feb. or 3 Mar. *Mill Lane Lecture  
Rooms 6 & 7*

Students will be notified which sessions to attend.

**FARM ANIMAL HUSBANDRY****(Veterinary students: SECOND VET M.B. EXAMINATION)**Course Organiser: Dr J. S. Gibson E-mail: [jsg1001@cam.ac.uk](mailto:jsg1001@cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures** *Hopkinson Lecture Theatre, New Museums Site*

F. 9

DR J. GIBSON AND OTHERS

(Six lectures, 25 Oct.-29 Nov.)

**Lectures** *Biffen Lecture Theatre, Department of  
Genetics*

F. 9, Tu. 2, Th. 9

DR J. GIBSON AND OTHERS

(Eleven lectures, 24, 31 Jan., 7, 14, 18, 21, 25,  
28 Feb., 6, 7 Mar., Tu. 11 Mar. at 9)**Practical Work** Tu. 2-419 Nov. (*Hopkinson Lecture Theatre*)**Practical Work** Tu. 2-44 Feb. (*Biffen Lecture Theatre*)11 Mar. (*Clinical Vet School*)**CAL package**Th. 2-4 24 Oct., 7 Nov., 21 Nov. or 31 Oct., 14 Nov.,  
28 Nov.**PREPARING FOR THE VETERINARY PROFESSION (FIRST YEAR STRAND)****(Veterinary students: SECOND VET M.B. EXAMINATION)**Course Organiser: Dr J. S. Gibson E-mail: [jsg1001@cam.ac.uk](mailto:jsg1001@cam.ac.uk)*Lectures will take place in the Hopkinson Lecture Theatre, New Museums Site*Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures**

Tu. 2

DR M. HOLMES, PROF. D. M. BROOM AND OTHERS

(Four lectures, 22, Oct.-12 Nov.)

**Practical Work**Th. 1.45-3.45 Two sessions of 24 Oct., 7 Nov., 21 Nov.,  
31 Oct., 14 Nov. or 28 Nov.**Practical Work**Th. 1.45-3.45 Two sessions of 23 Jan., 6 Feb.,  
30 Jan. or 13 Feb.*continued >*

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART I<sub>B</sub>**

MICHAELMAS 2002

LENT 2003

EASTER 2003

**BIOLOGY OF DISEASE**

Course Organiser: Dr B. Kingston E-mail: jbk@mole.bio.cam.ac.uk

*Lectures will take place in the chemical Laboratory Lecture Theatre, Lensfield Road*Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

PROF. A. H. WYLLIE

Cell Injury. (One lecture, 11 Oct.)

DR A. MOFFETT

Innate Immune System; Acute Inflammation: Defence Mechanisms; Healing and Chronic Inflammation. (Three lectures, 14–18 Oct.)

DR A. KELLY

The Adaptive Immune System; B Cells and Antibodies; The Major Histocompatibility Complex; T cells. (Four lectures, 21–28 Oct.)

PROF. J. TROWDALE

Tolerance; Autoimmunity; Hypersensitivity; Transplantation. (Four lectures, 30 Oct.–6 Nov.)

DR D. DUNNE

Introduction to Parasitic Diseases; Key Examples of Parasitic Diseases: Malaria; Key Examples of Parasitic Diseases: Schistosomiasis. (Three lectures, 8–13 Nov.)

PROF. A. C. MINSON

Nature of Viruses; Viral Multiplication in the Host Cell Responses to Viral Infection; Acute and Chronic Infection; Epidemiology of Viral Infection; Combatting Viral Infection; Prion Diseases. (Seven lectures, 15 Nov.–29 Nov.)

DR A. CARMICHAEL

Opportunistic Infections. (One lecture, 2 Dec.)

**Practical Work***Department of Pathology*

Tu. 10–12 and Th. 2–4 or Tu. 2–4 and Th. 10–12 or Tu. 10–12 and Th. 10–12 or Tu. 2–4 and Th. 2–4 W. and F. 10–12 or 2–4

DR C. HUGHES

Bacterial Disease Past, Present and Re-emerging; Bacteria: Prokaryotic Pathogens; Bacterial – Host Interaction. Pathogenicity; Consequences of Bacterial Infection – Host Damage; Bacterial Pathogenicity in the Respiratory Tract; Bacterial Pathogenicity in the Gastrointestinal Tract; Combatting Bacterial Disease. (Seven lectures, 15 Jan.–29 Jan.)

PROF. M. A. STANLEY

The Regulation of Tissue Growth and Organisation; Clinical Pathology of Tumours; Epidemiology of Tumours; Genetic Basis of Neoplasia; Causes of Cancer. (Five lectures, 31 Jan.–10 Feb.)

DR C. PRINT

Thrombosis, Platelet Function and Blood Coagulation; Atherosclerosis; Infarction. (Three lectures, 12 Feb.–17 Feb.)

*Department of Pathology*  
The same continued.Revision Classes *Department of Pathology*  
The same continued.**HUMAN REPRODUCTION**

(Medical Students)

Course Organiser: Dr R. J. Barnes E-mail: rjb4@cam.ac.uk

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures**M. 11 *Babbage Lecture Theatre*

DR W. H. COLLEDGE

Endocrinology (Three lectures, 18, 25 Nov., 2 Dec.)

**Lectures**Tu. Th. 9 W. 4 *Anatomy Lecture Theatre* unless otherwise specified

PROF. M. H. JOHNSON

Sexual differentiation. (One lecture, W. 15 Jan. at 12)

Reproductive hormones: the Sexual messengers. (10 Oct.)

Gametogenesis and ovarian cycles. (Four lectures, 20 Jan. at 12, Tu. 21, Th. 23, W. 24)

DR G. BURTON

Coition, fertilization and blastocyst development. (Two lectures, Tu. 28, W. 29 Jan.)

Placentation. (One lecture, Th. 30 Jan.)

DR R. J. BARNES

Maternal adaptations to pregnancy and placental physiology. (Two lectures, Tu. 4; W. 5 Feb.)

Preparation for birth and delivery. (Two lectures, Th. 6, Tu. 11 Feb.)

Lactation and neonatal physiology. (Two lectures, W. 12, Th. 13 Feb.)

PROF. M. RICHARDS

Human genetic technologies. (One lecture, Th. 13 Mar.)

REVD DR J. CADDICK

Principles of medical ethics. (Five lectures, M. 17 Feb. at 11, W. 19, Th. 20 at 12, Tu. 25 at 12, Th. 27 Feb. at 4)

DR J. POWLES

Reproduction, demography and population health. (Three lectures, Tu. 4 Mar. at 12, Th. 6 at 12, Tu. 10 at 12)

**Practicals**Tu. 10–12 (21, 28 Jan., 10 Feb.) or M. 10–12 (27 Jan., 10, 24 Feb.) or Th. 10–12 (23 Jan., 6, 13 Feb.) *Physiology Department Histology Laboratory*

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1B (continued)**

MICHAELMAS 2002

LENT 2003

EASTER 2003

**MECHANISMS OF DRUG ACTION**Course Organiser: Prof. M. J. Waring E-mail: [mjw11@cam.ac.uk](mailto:mjw11@cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures**Tu. Th. S. 12 *Chemistry Main Lecture Theatre*

DR J. M. EDWARDSON

Drug interactions with receptors and ion channels (Five lectures, 15–24 Oct.)

DR R. MURRELL-LAGNADO

Pharmacology of peripheral neural transmissions (Six lectures, 26 Oct.–7 Nov.)

DR R. M. HENDERSON

Cardiovascular and renal pharmacology\* (Seven lectures, 9–23 Nov.)

DR D. R. FERGUSON

Cardiovascular and renal pharmacology† (Five lectures, 9–19 Nov.)

DR J. S. GIBSON

Anthelmintics† (Two lectures, 21–23 Nov.)

**Practical Work**

M. 2–5 or F. 2–5 (Weeks 2–8) A detailed timetable will be posted in the Department

**Lectures**Tu. Th. S. 12 *Chemistry Main Lecture Theatre*

DR S. B. HLADKY

Pharmacokinetics, drug metabolism, and general anaesthetics (Five lectures, 16–25 Jan.)

DR M. A. BARRAND

Chemotherapy (Five lectures, 28 Jan.–6 Feb.)

DR J. M. YOUNG

Pharmacology of inflammation and immunosuppression (Five lectures, 8–18 Feb.)

**Practical Work**

The same continued. (Weeks 1–5)

\* Medical students.

† Veterinary students.

These lectures will be given in the Lecture Theatre, Department of Pharmacology.

**NEUROBIOLOGY AND ANIMAL BEHAVIOUR**

(Veterinary Students)

Course Organiser: Dr S. A. Edgley E-mail: [sae1000@cus.cam.ac.uk](mailto:sae1000@cus.cam.ac.uk)Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>**Lectures**M. W. Th. F. S. 11 *Babbage Lecture Theatre*Tu. 9 *Physiology Lecture Theatre 3*

DR R. J. KEYNES

Introduction to CNS (One lecture) Th. 10 Oct.

DR H. R. MATTHEWS

Biology of Neurones (Two lectures) F. 11, M. 14 Oct.

MR J. GRANDAGE

Meninges (One lecture) Tu. 15 Oct. 9

DR I. M. WINTER

Somatic Sensation and Pain (Three lectures) S. 19, M. 21, W. 23 Oct.

DR R. FRANKLIN

Veterinary CNS (One lecture) Tu. 22 Oct.

DR P. J. RICHARDSON

Pharmacology of Pain (One lecture) S. 26 Oct.

*Babbage Lecture Theatre*

DR S. A. EDGLEY

The Motor System (Five lectures) M. 28, W. 30 Oct. S. 2, M. 4, W. 6 Nov.

DR J. M. HOLMES

Cranial Nerves (Two lectures)

Sense Organs: Eye (Two lectures)

Veterinary CNS (One lecture) Tu. 29 Oct., Tu. 5, Tu. 12,

Tu. 19 Nov., Tu. 3 Dec.

DR R. C. HARDIE

The Visual System (Four lectures) S. 9, M. 11, W. 13, S. 16 Nov.

PROF. A. C. CRAWFORD

Hearing (Two lectures) M. 18, W. 20 Nov.

DR H. R. MATTHEWS

Olfaction and Taste (One lecture) S. 23 Nov.

DR J. A. PARKINSON

Arousal, Homeostasis and Motivation (Three lectures)

M. 25, M. 27, F. 29 Nov.

DR C. E. HOLT

Development, Plasticity and Repair of the Nervous System (Two lectures) M. 2, W. 4 Dec.

MR J. GRANDAGE

Sense Organs: Ear (One lecture) Tu. 26 Nov.

**Practicals**

Practical classes in Veterinary Neuroanatomy and special Senses and in Neurophysiology and Animal Behaviour as indicated in the online timetables

**Lectures**M. W. F. 9 *Physiology Lecture Theatre 3*

PROF. D. M. BROOM

Animal Behaviour (Seven lectures) W. 15–W. 29 Jan.)

PROF. P. MCNAUGHTON

Neuropharmacology (Three lectures) F. 31 Jan., W. 5 Feb.

The same continued.

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**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)**

MICHAELMAS 2002

LENT 2003

EASTER 2003

**NEUROBIOLOGY AND HUMAN BEHAVIOUR**  
(Medical Students)

Course Organiser: Dr S. A. Edgley E-mail: sae1000@cus.cam.ac.uk

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>**Lectures**Weekdays 9, S. 11 *Babbage Lecture Theatre*

DR R. J. KEYNES

Introduction to CNS (One lecture) Th. 10 Oct.

DR H. R. MATTHEWS

Biology of neurones (Two lectures) F. 11, M. 14 Oct.

DR R. J. KEYNES

Blood Brain Barrier, CSF and cerebral blood flow (One lecture) W. 16 Oct.

DR I. M. WINTER

Somatic Sensation and Pain (Three lectures) S. 19, M. 21, W. 23 Oct.

DR P. J. RICHARDSON

Pharmacology of Pain (One lecture) S. 26 Oct.

DR S. A. EDGLEY

The Motor System (Five lectures) M. 28, W. 30 Oct. S. 2, M. 4, W. 6 Nov.

DR R. C. HARDIE

The Visual System (Four lectures) S. 9, M. 11, W. 13, S. 16 Nov.

PROF. A. C. CRAWFORD

Hearing (Two lectures) M. 18, W. 20 Nov.

DR H. R. MATTHEWS

Olfaction and Taste (One lecture) S. 23 Nov.

DR J. A. PARKINSON

Arousal, Homeostasis and Motivation (Three lectures) M. 25, M. 27, F. 29 Nov.

DR C. E. HOLT

Development, Plasticity and Repair of the Nervous System (Two lectures) M. 2, W. 4 Dec.

**Practicals**

Practical classes in Neuroanatomy and Neurophysiology and Psychology as indicated in the online timetables.

**Lectures**Weekdays 9, S. 11 *Babbage Lecture Theatre*PROF. S. BARON COHEN AND PROF. B. J. EVERITT  
Neurobiology of Mental Illness (Six lectures)

W. 15, F. 17, M. 20, W. 22, F. 24, S. 25 Jan.

DR P. J. RICHARDSON

Pharmacology and Drug Treatment of CNS Disorders (Six lectures) M. 27, W. 29, F. 31 Jan., S. 1, M. 3, W. 5 Feb.

DR R. RIDLEY

Neurobiology of Learning, memory and Cognition (Five lectures) F. 7, S. 8, M. 10, W. 12, F. 14 Feb.

**Clinical Demonstration**F. 21 Feb. 9–11 *Addenbrooke's Hospital*

The same continued.

**VETERINARY REPRODUCTIVE BIOLOGY**  
(Veterinary Students)

Course Organiser: Dr A. L. Fowden E-mail: alf1000@cam.ac.uk

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures**M. 11 *Babbage Lecture Theatre*

DR W. H. COLLEDGE

Endocrinology (Three lectures, 18, 25 Nov., 2 Dec.)

**Lectures**M. 10, Tu. 9, W. 10 or 4, Th. 9 *Biffin Lecture Theatre*

DR A. L. FOWDEN

Reproductive Hormones W. 10 (15 Jan.); Th. 9 (16 Jan.) (Two lectures)

DR A. L. FOWDEN

Sexual differentiation M. 10 (20 Jan.) (One lecture)

DR J. GIBSON

Testes Tu. 9 (21 Jan.); W. 4 (22 Jan.) (Two lectures)

DR J. GIBSON

Ovary Th. 9 (23 Jan.); Tu. 9 (28 Jan.); W. 4 (29 Jan.) (Three lectures)

MR J. GRANDAGE

Mating Th. 9 (30 Jan.) (One lecture)

DR J. GIBSON

Fertilization Tu. 9 (4 Feb.) (One lecture)

DR S. ELLINGTON

Early Pregnancy W. 4 (5 Feb.); Th. 9 (6 Feb.) (Two lectures)

MR J. GRANDAGE AND DR A. L. FOWDEN

Placenta Tu. 9 (11 Feb.); W. 4 (12 Feb.) (Two lectures)

DR A. L. FOWDEN

Fetal Growth Th. 9 (13 Feb.) (One lecture)

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1B (continued)**

MICHAELMAS 2002

LENT 2003

EASTER 2003

**VETERINARY REPRODUCTIVE BIOLOGY (continued)**

DR A. L. FOWDEN AND MR J. GRANDAGE  
Preparation for Birth M. 11 (17 Feb.); W. 4  
(19 Feb.); Th. 12 (20 Feb.); Tu. 12  
(25 Feb.) (Four lectures)

DR A. L. FOWDEN  
Parturition Th. 12 (27 Feb.) (One lecture)

DR A. L. FOWDEN  
Postnatal Tu. 12 (4 Mar.); Th. 12 (6 Mar.)  
(Two lectures)

MR J. GRANDAGE AND DR R. J. BARNES  
Lactation Tu. 12 (11 Mar.); Th. 12 (13 Mar.)  
(Two lectures)

**SPECIAL OPTIONS SUBJECTS**

Courses will be offered in the options set out below in the two lists. Lectures and practicals will commence in the week beginning 17 February and continue in the Easter Term. Candidates are required to take one option from each list (veterinary students must take Comparative Vertebrate Biology from list 1). Restrictions on numbers apply to some options. Detailed timetables, and links to further information, are posted on the Faculty Board web site <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>.

**List 1**

Lectures and practicals in the following List 1 options will be on Mondays, Wednesdays and Fridays.

**DEVELOPMENTAL BIOLOGY: CONCEPTS TO CLINIC**

Course Organiser: Dr C. Holt E-mail: [ceh@mole.bio.cam.ac.uk](mailto:ceh@mole.bio.cam.ac.uk)

**EXPERIMENTAL PSYCHOLOGY**

Course Organiser: Dr R. McCarthy E-mail: [rm107@cam.ac.uk](mailto:rm107@cam.ac.uk)

**SUBSTANCES OF ABUSE AND ADDICTION**

Course Organiser: Dr J. Morton E-mail: [ajm41@cam.ac.uk](mailto:ajm41@cam.ac.uk)

**TUMOUR BIOLOGY**

Course Organiser: Dr P. A. W. Edwards E-mail: [pawe@mole.bio.cam.ac.uk](mailto:pawe@mole.bio.cam.ac.uk)

**CLINICAL AND APPLIED PHYSIOLOGY**

Course Organiser: Professor J. T. Fitzsimons E-mail: [jft10@cam.ac.uk](mailto:jft10@cam.ac.uk)

**List 2**

Lectures and practicals in the following List 2 options will be on Tuesdays, Thursdays and Fridays

**APPLIED VETERINARY ANATOMY**

Course Organiser: Mr J. Grandage E-mail: [jg3@mole.bio.cam.ac.uk](mailto:jg3@mole.bio.cam.ac.uk)

**INFECTIOUS DISEASE IN ANIMALS AND MAN**

Course Organiser: Dr H. Field E-mail: [hjfl0@cam.ac.uk](mailto:hjf10@cam.ac.uk)

**COMPARATIVE VETEBRATE BIOLOGY**

This option is compulsory for vets and is a requirement of the Second Vet MB

Course Organiser: Dr J. Brackenbury E-mail: [jhb1000@mole.bio.cam.ac.uk](mailto:jhb1000@mole.bio.cam.ac.uk)

**MAN, MOLECULES AND THE ENVIRONMENT**

Course Organiser: Dr D. Ferguson E-mail: [drf1000@cam.ac.uk](mailto:drf1000@cam.ac.uk)

**METABOLISM AND DISEASE**

Course Organiser: Dr K. Brindle E-mail: [kmb@mole.bio.cam.ac.uk](mailto:kmb@mole.bio.cam.ac.uk)

**SENSORIMOTOR NEUROBIOLOGY**

Course Organiser: Dr H. R. Matthews E-mail: [hmr1@cam.ac.uk](mailto:hmr1@cam.ac.uk)

**VETERINARY PHARMACOLOGY**

Course Organiser: Dr D. Ferguson E-mail: [drf1000@cam.ac.uk](mailto:drf1000@cam.ac.uk)

**PREPARING FOR PATIENTS**

(Medical Students)

Course Organiser: Dr J. Silverman E-mail: [js355@medschl.cam.ac.uk](mailto:js355@medschl.cam.ac.uk)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

There are four strands to this course, which run over the three pre-clinical years of study

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)**

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**PREPARING FOR PATIENTS B (SECOND YEAR STRAND)**

Students will be divided into three groups. There will be a briefing followed by two hospital visits and then a review session. Students will be notified to which group they have been allocated.

MS J. GRIFFITHS AND DR J. SILVERMAN

**Group 1**

Briefing 30 Sep. 10–12 *Pathology Lecture Theatre*  
Review 3 or 4 Oct., 10–12 or 2–4 *Mill Lane Lecture Rooms 7*

**Group 2**

Briefing 9 Dec. 10–12 *Pathology Lecture Theatre*  
Review 12 or 13 Dec., 10–12 or 2–4 *Physiology Lecture Theatre 3*

**Group 3**

Briefing 6 Jan. 10–12 *Pathology Lecture Theatre*  
Review 9 or 10 Jan., 10–12 or 2–4 *Mill Lane Lecture Rooms 7*

**PREPARING FOR PATIENTS C (SECOND YEAR STRAND)**

(Medical Students)

Students will be expected to undertake course work for Preparing for Patients C over the summer vacation.

DR J. SILVERMAN

Briefing (all students) Th. 6 Mar. 4–6,  
*Anatomy Lecture Theatre*

**PREPARING FOR PATIENTS D (THIRD YEAR STRAND)**

(Medical Students)

In addition to the courses students are taking in their third year (MVST Part II, NST Part II or other Triposes) medical students are expected to follow the fourth strand of Preparing for Patients. Successful completion of PfPD will be a requirement of entry to clinical school.

DR M. HUNT AND DR J. SILVERMAN

Briefing 9 Oct. 4–5.30 *Anatomy Lecture Theatre*  
Review sessions 14 or 17 or 18 or 19 Mar., 10–12 or 2–4  
*Mill Lane Lecture Rooms 6 & 7*

Students will be notified which session to attend.

**PREPARING FOR THE VETERINARY PROFESSION B (SECOND YEAR STRAND)****(Veterinary students: SECOND VET MB EXAMINATION)**Course Organiser: Dr P. Watson E-mail: [pjw36@hermes.cam.ac.uk](mailto:pjw36@hermes.cam.ac.uk)

*Lectures will take place in the Heycock Lecture Theatre, New Museums Site unless otherwise stated*

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

**Lectures**

DR R. FRANKLIN AND DR D. WILLIAMS

*Department of Clinical Veterinary Medicine*  
W. 9 Oct. 2–4 Lectures and Debate

DR D. WILLIAMS

Veterinary Ethics. (Two lectures Th. 10 Oct. 12,  
M. 11 Nov. 2–4)

MR J. HOULTON

*Department of Clinical Veterinary Medicine*  
Veterinary Communication (One lecture 4 Nov. 2)

MR P. DOBSON AND OTHERS

*Department of Clinical Veterinary Medicine*  
Pharmaceutical Industry and Research (Two lectures  
W. 4 Dec. 12 and 2)

PROF. D. MASKELL AND OTHERS

Public health, food safety, zoonotic and notifiable disease  
(Four lectures 11 Nov. 3–4, 25 Nov. 2–4, 26 Nov.  
12–1)

**Practicals**

*Department of Clinical Veterinary Medicine*  
9 Oct. 4–6, 4 Dec. 3–5

DR J. SILVERMAN

*Department of Clinical Veterinary Medicine*  
(One lecture W. 15 Jan. 2)

**Practicals (cont.)**

15 Jan. 3–5  
Visit to Waltham Centre 21 Feb. a.m.

## MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II

MICHAELMAS 2002

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## FOUR PAPER SUBJECTS

## Mechanisms of Disease: from Process to Patient

Course Organisers: Dr J. Xuereb and Dr S. Thiru E-mail: jhx1000@cam.ac.uk

Lectures will be held at 10.30 a.m. daily in the *Department of Pathology, Tennis Court Road*. Seminars and Case Studies will be held in the same venue at 1.30 p.m.

## Lectures

10.30 a.m. till 11.30 a.m.

## Case Studies

1.30 p.m. till 3.30 p.m.

\* Seminar Room, Ground Floor, The Clinical School, Addenbrooke's Hospital

\*\* Seminar Room, Department of Pathology

\*\*\* Greaves Room, Department of Pathology

DR J. H. XUEREB

- Tu. 8 Oct. Introduction to course  
Seminar An introduction to dissertations \*\*\*

## Pathogens and Disease

DR N. BROWN

- W. 9 Oct. Sepsis and the host's response to infection  
*Case study* Disseminated intravascular coagulation (Dr T. Baglin)

DR M. FARRINGTON

- Th. 10 Oct. Pneumonia – racing against the escalator  
*Lecture* Mechanisms of immunity to mycobacteria in humans (Dr D. Kumararatne)

- F. 11 Oct. *Seminar* Electronic literature searches (Ms W. Roberts) \*

PROF. A. MINSON

- M. 14 Oct. The nature of prions  
*Seminar* Electronic literature searches (Ms W. Roberts) \*

DR J. H. XUEREB

- Tu. 15 Oct. Phenotypic spectrum of spongiform encephalopathy

PROF. A. LEVER

- W. 16 Oct. Microbial invasion of the central nervous system

- Th. 17 Oct. Molecular biology of human immunodeficiency virus  
*Case Study* Infection in the immunocompromised host Dr M. Farrington and T. Wreghitt)

- F. 18 Oct. Pathogenesis of AIDS (Prof. A. Lever)

DR A. CARMICHAEL

- M. 21 Oct. Immunological controls of HIV infection

PROF. A. LEVER

- Tu. 22 Oct. HTLV- infection and pathogenesis  
*Case Study* AIDS in mother and child (Dr J. H. Xuereb)

DR D. KUMARARATNE

- W. 23 Oct. Vaccines against bacterial meningitis

## Immune Responses, Inflammation and Disease

DR J. BRADLEY

- Th. 24 Oct. Vascular endothelium – physiology and pathophysiology  
*Case study* Hereditary angioneurotic oedema (Dr S. Thiru) F. 25 (at 1.30 p.m.)  
*Lecture* Immunodeficiency: molecular mechanisms I (Dr D. Kumararatne)

DR D. KUMARARATNE

- M. 28 Oct. Immunodeficiency – molecular mechanisms II  
*Case study* Polyarthritis (Dr J. H. Xuereb)

DR TOOZE

- Tu. 29 Oct. Lymphoma : an immunological perspective I  
W. 30 Oct. Lymphoma : an immunological perspective II

PROF. J. H. GASTON

- Th. 31 Oct. The role of HLA antigens in the pathogenesis of arthritis  
*Case study* Acute mono-arthritis (Dr J. H. Xuereb)

- F. 1 Nov. T Lymphocytes and joint inflammation  
*Case study* The syndromes produced in renal injury (Dr J. H. Xuereb)

DR K. G. SMITH

- M. 3 Nov. Systemic lupus erythematosus I  
*Supervision* J. H. Xuereb\*\*

- Tu. 5 Nov. Systemic lupus erythematosus II

PROF. J. H. GASTON

- W. 6 Nov. Cytokines in arthritis – potential therapeutic targets Th. 7 Infectious agents and arthritis: Lyme disease and reactive arthritis

## Tumour Biology

PROF. E. D. WILLIAMS

- Tu. 14 Jan. Carcinogenesis, environment and growth control  
*Case study* Hypertension and neurofibromatosis (Dr J. H. Xuereb)

PROF. M. ARENDS

- W. 15 Jan. Familial predisposition to cancer: colorectal cancer

DR C. CALDAS

- Th. 16 Jan. Molecular biology of breast cancer  
*Case study* A lump in the breast: multidisciplinary approach to cancer (Prof. L. Bobrow)

PROF. M. ARENDS

- F. 17 Jan. Infection and cancer: molecular biology of cervical cancer

PROF. A. GREEN

- M. 20 Jan. Leukaemia I: transcriptional regulation of haemopoiesis  
*Case study* Pathogenesis and management of leukaemia (Dr J. Craig)

- Tu. 21 Jan. Leukaemia II: molecular pathology (Prof. A. Green)

DR N. COLEMAN

- W. 22 Jan. The Langerhans cell and histiocytic disorders  
*Case study* Cavitating lung disease (E. R. Chilvers)

DR A. WHITEHEAD

- Th. 23 Jan. Biology of neoplasms in children

PROF. V. P. COLLINS

- F. 24 Jan. Cerebral gliomas: the pathway and molecular biology  
*Case study* Clinico-anatomical correlation of pituitary adenoma (Dr J. H. Xuereb)

DR L. SOILLEUX

- M. 27 Jan. Tumour immunology  
*Case study* Cerebral oedema and intracranial pressure (Prof. V. P. Collins)

## Transplantation

DR C. TAYLOR

- Tu. 28 Jan. Histocompatibility

DR S. THIRU

- W. 29 Jan. Immunobiology of transplantation and rejection I  
*Supervision* (Dr J. H. Xuereb\*\*)

- Th. 30 Jan. Immunobiology of transplantation and rejection II (Dr S. Thiru)  
*Lecture* Immunobiology of transplantation and rejection III (Dr S. Thiru)

DR S. METCALF

- F. 31 Jan. Molecular basis of immunosuppression  
M. 3 Feb. Immunological tolerance in transplantation (Dr S. Metcalfe)  
*Seminar* Dissertations: writing up (Dr J. H. Xuereb\*\*\*)

PROF. A. BRADLEY

- Tu. 4 Feb. Xenotransplantation: concordant  
*Case study* A Kidney graft for complications of Diabetes Mellitus (Dr S. Thiru)

- W. 5 Feb. Xenotransplantation: discordant (Prof. A. Bradley)

## Skin

- Tu. 22 Apr. Normal and abnormal skin structure (Dr J. Sterling)  
W. 23 Apr. Skin as a renewable organ (Dr J. Sterling)  
Th. 24 Apr. Skin as an organ of immunity (Dr J. Sterling)  
M. 28 Apr. Disorders of the skin immune system (Dr J. Sterling)\*\*  
*case study* Bullous skin disease (Dr J. Sterling)

## The Circulation

DR M. GODDARU\*\*

- Tu. 29 Apr. Ischaemic cardiomyopathy\*\*  
*Supervision* Dr J. Xuereb\*\*

DR N. BURROWS

- W. 30 Apr. *Case study* Ehlers-Danlos syndrome\*\*

PROF. P. WEISSBERG

- Th. 1 May Atherosclerosis  
*Case study* Infectious endocarditis

DR M. BENNETT

- F. 2 May Pathobiology of intervention in coronary artery disease  
*Case Study* Coronary artery disease

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## MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2002

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DR A. EXLEY

M. 11 Nov. The mucosal immune system

DR J. H. XUEREBO

Tu. 12 Nov. Inflammation in the CNS

*Case study* Lung defence: insight from clinical cases (A. Exley)

Th. 14 Nov. Aetiology and pathogenesis of demyelinating diseases

*Case study* Clinico-anatomical correlation in multiple sclerosis (Dr J. H. Xuereb)

DR B. COTTRELL

F. 15 Nov. Infection and immunity in inflammatory bowel disease

*Case study* Inflammatory bowel disease (Dr B. Cottrell)

DR M. GURNELL

M. 18 Nov. Autoimmunity in the thyroid gland

*Case study* Thyroid enlargement (Dr J. H. Xuereb)**Endocrine and Metabolic Disease**

DR S. THIRU

Tu. 19 Nov. The kidney as an endocrine organ

DR J. COMPSTON

W. 20 Nov. Bone cell physiology

Th. 21 Nov. Pathology of metabolic bone disease

*Case study* Paget's Disease (Dr J. H. Xuereb)

DR S. MIDDLETON

F. 22 Nov. Gastrointestinal hormones and peptides

M. 25 Nov. Carcinoid syndrome

DR K. CHATTERJEE

Tu. 26 Nov. Principles of nuclear hormone action

W. 27 Nov. Nuclear receptors in human disease

*Case study* Cushing's syndrome (Dr K. Chatterjee)

PROF. T. COX

Th. 28 Nov. Formation of blood pigment: porphyria

PROF. V. P. COLLINS

F. 29 Nov. Mitochondrial encephalomyopathies

M. 2 Dec. No Lecture

*Supervision* Dr S. Thiru\*\*

PROF. S. O'RAHILLY

Tu. 3 Dec. Understanding human obesity

*Case study* Fasting hypoglycaemia (Dr J. H. Xuereb)

W. 4 Dec. How insulin works and how it goes wrong

*Lecture* Mechanisms of renal damage in diabetes mellitus (Dr S. Thiru)

PROF. T. COX

Th. 5 Dec. The lysosome – a gateway to treatment

*Case study* Metabolic effects of cancer (Dr N. Coleman) F. 6 Iron – a noxious essential

DR S. THIRU

Th. 6 Feb. Long term outcome of transplantation

DR S. CHANDRAN

F. 7 Feb. Transplantation in the central nervous system

M. 10 Feb. Endogenous stem cell responses to injury in the CNS

DR S. CHARNOCK-JONES

Tu. 11 Feb. Placental vascular morphogenesis

W. 12 Feb. Pathogenesis of pre-eclampsia

Th. 13 Feb. Gestational trophoblastic disease

DR A. WHITEHEAD

F. 14 Feb. Pathophysiology of disease in the premature baby

DR K. ONG

M. 17 Feb. Fetal and early infant development

*Case study* Diagnosis of genetic disease

DR C. ACERINI

Tu. 18 Feb. Growth disorders of childhood

PROF. I. HUGHES

W. 19 Feb. Disorders of sex development

DR R. ILES\*\*

Th. 20 Feb. Molecular and cell biology of cystic fibrosis

DR P. O'DONOVAN

F. 21 Feb. Biology and pathology of muscular dystrophy

DR J. YATES

M. 24 Feb. The genetic pathology of tuberous sclerosis

*Supervision* Dr S. Thiru\*\*

DR D. RUBINSTEIN

Tu. 25 Feb. Molecular genetics and pathology of Huntington's disease\*\*

DR E. REID

W. 26 Feb. Hereditary spastic paraplegia\*\*

**Pathophysiology of some organ based/systemic diseases***Brain*

DR J. H. XUEREBO

Th. 27 Feb. Amyloid deposition in the brain\*\*

F. 28 Feb. Biology and pathology of tau protein\*\*

M. 3 Mar. Excitotoxicity\*\*

*Case study* Tau-related dementia syndromes (Dr R. Davies)

PROF. R. CARRELL

Tu. 4 Mar. Conformational disease I\*\*

W. 5 Mar. Conformational disease II\*\*

*Gastro-Intestinal*

DR V. SAVE

Th. 6 Mar. Helicobacter and associated pathophysiology\*\*

*Case study* Cirrhosis and liver failure (Dr D. Thiru)

F. 7, M. 10 Mar. Viral hepatitis I and II (Dr V. Save)

*Kidney*

DR S. THIRU

Tu. 11 Mar. Pathophysiology of progressive renal disease\*\*

*Case study* End-stage renal failure (Dr J. Bradley/Dr S. Thiru)\*\**Liver*

DR M. GODDARD

W. 12 Mar. Pathophysiology of pulmonary microvascular

DR S. STEWART

Th. 13 Mar. Respiratory tract hypersensitivity\*\*

*Case study* Asthma and its consequences (Dr R. Ross Russell)

F. 14 Mar. Irreversible airway narrowing and alveolar wall destruction

**Pathology**

Course Organiser: Dr I. Brierley E-mail: jb103@mole.bio.cam.ac.uk

This course consists of lectures from the relevant options chosen from N.S.T. Part II Pathology (see p. 208)

Option A Cellular and Genetic Pathology

Option B Immunology

Option C Microbial and Parasitic Disease

Option D Virology

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)**

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**Pharmacology**

Course Organiser: Dr J. M. Edwardson E-mail: jme1000@cam.ac.uk

This course consists of lectures from N.S.T. Part II Pharmacology (see p. 209)

**Psychology**

Course Organiser: Dr J. Russell E-mail: jr111@cus.cam.ac.uk

This course consists of lectures from N.S.T. Part II Psychology (see p. 214)

**Physiology**

Course Organiser: Dr J. Rogers E-mail: jr@mole.bio.cam.ac.uk

This course consists of lectures from N.S.T. Part II Physiology (see p. 210)

**TWO PAPER SUBJECTS****Physiology**

This course consists of lectures from N.S.T. Part II Physiology (see p. 210)

**History of Medicine**

Department of History and Philosophy of Science, Free School Lane

Prof. P. Lipton and Dr Hodges would like to see all Part II students on Wednesday, 9 October at 11 a.m. in *Seminar Room 2, Department of History and Philosophy of Science, Free School Lane*. Discussion of the special needs of M.V.S.T. Part II students taking the Two Paper Subject in History of Medicine will be included in this meeting.

**Biological Anthropology**

This course will consist of any two Papers B3, B4 and B5, from Part IIB Biological Anthropology

**Human Impact on the Environment**

Course Organiser: Dr J. R. Flowerdew E-mail: j.r.flowerdew@zoo.cam.ac.uk

**Lectures**

DR W. AMOS, DR B. T. GRENFELL, DR P. ROHANI,  
DR J. SWINTON AND DR R. JOHNSTONE  
Population Biology. M. W. F. 5 (Twenty-four lectures)  
*Department of Plant Sciences*

DR M. BROOKE, DR D. BRIGGS, DR W. AMOS,  
DR A. BALMFORD, DR E. V. J. TANNER,  
DR J. O'SULLIVAN AND DR I. HODGE  
Conservation Biology. M. W. F. 5 (Twenty-  
four lectures) *Department of Zoology*

DR J. R. FLOWERDEW AND MR I. T. LAWSON  
Human Impact on the Environment M. W.  
F. 5 (Twelve lectures) *Department of  
Zoology*

**Pathology**

Course Organiser: Dr I. Brierley E-mail: ib103@mole.bio.cam.ac.uk

This course consists of lectures taken from the relevant options chosen from N.S.T. Part II Pathology (see p. 208)  
Option A Cellular and Genetic Pathology  
Option C Microbial and Parasitic Disease

**Pharmacology of Integrated Systems**

Course Organiser: Dr J. M. Edwardson E-mail: jme1000@cam.ac.uk

This course will consist of lectures from N.S.T. Part II Pharmacology, under the section named Pharmacology of Integrated Systems (see p. 209)

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**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)**

MICHAELMAS 2002

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**ONE PAPER SUBJECTS****Biology of Parasitism**

Course Organiser: Dr S. Lloyd E-mail: ssl1000@hermes.cam.ac.uk

*Lectures will take place in the Department of Clinical Veterinary Medicine, Madingley Road, on M. W. F. 5*

DR S. LLOYD AND LORD SOULSBY

**Introduction**

The importance of Parasitism (Lecture 1)  
 Routes of Transmission (Lecture 2)  
 Development within an intermediate host (Lecture 3)  
 Parasite Morphology, Classification and Life Cycles  
 (Lectures 4, 5)

**Infection Mechanisms and Establishment**

Exsheathment and Hatching Mechanisms, and Parasite  
 Recognition (Lectures 6, 7, 8)  
 Parasite Development in Relation to Season, and  
 Hypobiosis (Lectures 9, 10)  
 Parasite Population Stability (Lecture 11)

**Immunity in Parasitic Infections and Pathogenic Relationship**

The effect of Parasitism on the Gastrointestinal Tract, and  
 Growth and Development of the Host (Lectures 12,  
 13)  
 Anaemia in Parasitism (Lecture 14)  
 Intermediate Host Responses to Parasitic Infection  
 (Lecture 15)  
 Immune Mechanisms against Arthropods/Immunology  
 (Lecture 16)  
 Immune Mechanisms to Tissue Helminths and Protozoa  
 (Lectures 17, 18)  
 Mechanisms of Immunity to Gastrointestinal Helminths  
 (Lecture 19)  
 Survival of Helminths and Protozoa in the  
 Immunocompetent Host (Lecture 20)  
 Immunopathological responses in Helminths and  
 Protozoa (Lecture 21)

**Zoonoses**

Taeniasis, Echinococcosis, Toxocariasis and other Larva  
 Migrans, Toxoplasmosis, Trichinellosis and  
 Miscellaneous Nematodes, Fish borne infections,  
 and Water borne Infections (Lectures 22-24)

**Zoonoses**

Taeniasis, Echinococcosis, Toxocariasis and  
 other Larva Migrans, Toxoplasmosis,  
 Trichinellosis and Miscellaneous  
 Nematodes, Fish borne infections, and  
 Water borne infections (Lectures 25-28)

**Prospects for Control of Parasitic Diseases**

Chemotherapy (Lectures 29, 30)  
 Biological Control and Importance of  
 Symbionts (Lectures 31, 32)  
 Vaccination and Diagnosis (Lectures 33, 34)  
 Parasitism in relation to Environment,  
 Customs, Agriculture, Food Supply  
 (Lecture 35)

**Conservation Biology**

Course Organiser: Dr J. Flowerdew E-mail: j.r.flowerdew@zoo.cam.ac.uk

This course will consist of lectures from N.S.T. Part II Zoology (see p. 215)

**Biological Anthropology**

This course will consist of one paper chosen from Paper B3, B4 or B5 from Part IIB Biological Anthropology

**Medical Aspects of Neurobiology**Timetable Co-ordinator: Dr C. L-H. Huang E-mail: clh11@cus.cam.ac.uk  
(Module Organisers are shown below in brackets)

This course will consist of lectures from N.S.T. Part II Physiology (Module 6) (see p. 212)

**Medicine, Ethics and Law**

Course Co-ordinator: Prof. J. Spencer (Law) E-mail: jrs1000@hermes.cam.ac.uk / Dr T. Lewens (Ethics) E-mail: tml1000@cam.ac.uk

PROF. J. SPENCER AND OTHERS

Medical Law. M. 4 *Law Faculty*The same continued. M. 4 *Law Faculty*

DR T. LEWENS AND OTHERS

Medical Ethics. Tu. 4 *Venue TBA*

The same continued. Tu. 4

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)**

MICHAELMAS 2002

LENT 2003

EASTER 2003

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**Medicine, Health and Illness**

Course Organiser: Prof. B. Turner E-mail: bst22@cam.ac.uk

This course will consist of lectures from Paper Int 3, Part II of the Social and Political Sciences Tripos (see p. 135)

**Topics in Clinical Physiology**

Timetable Co-ordinator: Dr C. L-H. Huang E-mail: clh11@cus.cam.ac.uk  
(Module Organisers are shown below in brackets)

This course will consist of lectures from N.S.T. Part II Physiology (Module 3) (see p. 211)

**Biomedical Technologies**

Course Organiser: Prof. M. R. Richards E-mail: mpmr@cam.ac.uk

This course will consist of lectures from Paper Int 4 (see p. 135)