

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 (8 Oct.) Sir Keith Peters and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*

W. 11 (8 Oct.) Dr D. Bainbridge, Dr D. Chivers, Prof. L. Jeffcott (Veterinary Students) *Physiology Lecture Theatre 3*

MICHAELMAS 2003

LENT 2004

EASTER 2004

CELL BIOLOGY

Course Organiser: Dr C. Print E-mail: 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.

DR C. PRINT AND DR S. MAYES

(Six lectures 12 noon and 4 on 9, 10 and 14 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

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, 10 Oct.)

DR I. G. PARKIN

Musculo-Skeletal System: Bones, Joints and Muscles
(Two lectures, 15, 17 Oct.)

DR M. N. S. HUNT

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

DR I. G. PARKIN

Principles of Body Systems (Cardiovascular and
Nervous) (Two lectures, 22 Oct, 5 Nov.)

PROF. A. DIXON

Principles of radiology (One lecture, 29 Oct.)

MR R. H. WHITAKER

Autonomic Nervous System (One lecture, 7 Nov.)

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

Formative Mid Term Anatomy MCQ (14 Nov.)

PROF. D. RICHES

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

DR I. G. PARKIN

Principles of Lymphatic Drainage and Breast (One
lecture, 26 Nov.)

DR I. G. PARKIN

Nerve Injuries. (One lecture, 28 Nov.)

DR I. G. PARKIN

Principles of Fascia. (One lecture, 3 Dec.)

Special Periods

Clinical Demonstration: (5 Dec.) *William Harvey Lecture
Theatre, Addenbrooke's*

Practical Work

Dissection and Prosections*. Times according to Options
Allocation of Cadavers and Introduction to
Anatomy: 8 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,
16, 21, 23 Jan.)

DR P. SCHOFIELD

Embryology: Development of Body Plan,
Embryonic Folding, Cranial Facial
Development, Cardiovascular and G.I.T
(Four lectures, 28, 30 Jan., 18, 27 Feb.)

MR R. H. WHITAKER

The Larynx (One lecture, 4 Feb.)

DR I. G. PARKIN

Chewing and Swallowing (One lecture, 6 Feb.)

MR R. H. WHITAKER

The Ear (One lecture 11 Feb.)

MR R. H. WHITAKER

Nerve Supply in Abdomen. Peritoneal
Development (One lecture, 25 Feb.)

DR I. G. PARKIN

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

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

Formative End Term Anatomy MCQ (5 Mar.)

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

Exam technique (One lecture, 10 Mar.)

Clinical Demonstration (11 Mar.) *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,
23 Apr.)

MR R. H. WHITAKER

Urinary Continence and Incontinence (One
lecture, 28 Apr.)

MR R. H. WHITAKER

Male Reproductive Tract (One lecture,
30 Apr.)

MR R. H. WHITAKER

Abdominal Wall, Hernias and Inguinal
Canal (One lecture, 5 May.)

DR P. SCHOFIELD

Embryology (Continued): Urogenital (One
lecture, 7 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 in accordance with their options.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

HISTOLOGYCourse organiser: Dr Teresa Tiffert E-mail: jtt1000@cam.ac.ukFurther 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 (10 Oct.); or M. 10–12 or 2–4 (13 Oct.); or W. 2–4 (15 Oct.); or F. 2–4 (17 Oct.); or W. 2–4 (22 Oct.)
2. Connective tissue, nerve and neuromuscular junction F. 2–4 (24 Oct.); or M. 10–12 or 2–4 (27 Oct.); or W. 2–4 (29 Oct.); or F. 2–4 (31 Oct.); or W. 2–4 (5 Nov.)
3. Striated, cardiac and smooth muscle F. 2–4 (7 Nov.); or M. 10–12 or 2–4 (10 Nov.); or W. 2–4 (12 Nov.); or F. 2–4 (14 Nov.); or W. 2–4 (19 Nov.)
4. Vascular system and blood F. 2–4 (21 Nov.); or M. 10–12 or 2–4 (24 Nov.); or W. 2–4 (26 Nov.); or F. 2–4 (28 Nov.); or W. 2–4 (3 Dec.)

Practical Work Department of Physiology

5. Epithelia and skin F. 2–4 (16 Jan.); or M. 10–12 or 2–4 (19 Jan.); or W. 2–4 (21 Jan.); or F. 2–4 (23 Jan.); or W. 2–4 (28 Jan.)
6. Respiratory system F. 2–4 (30 Jan.); or M. 10–12 or 2–4 (2 Feb.); or W. 2–4 (4 Feb.); or F. 2–4 (6 Feb.); or W. 2–4 (11 Feb.)
7. Urinary system and adrenal gland F. 2–4 (13 Feb.); or M. 10–12 or 2–4 (16 Feb.); or W. 2–4 (18 Feb.); or F. 2–4 (20 Feb.); or W. 2–4 (25 Feb.)
8. Alimentary system F. 2–4 (27 Feb.); or M. 10–12 or 2–4 (1 Mar.); or W. 2–4 (3 Mar.); or F. 2–4 (5 Mar.); or W. 2–4 (10 Mar.)

Practical Work Department of Physiology

9. Liver, pancreas and salivary glands F. 2–4 (23 Apr.); or M. 10–12 or 2–4 (26 Apr.); or W. 2–4 (28 Apr.); or F. 2–4 (30 Apr.); or W. 2–4 (5 May)
10. Thyroid, parathyroid, pituitary gland and revision exercises F. 2–4 (7 May); or M. 10–12 or 2–4 (10 May); or W. 2–4 (12 May); or F. 2–4 (14 May); or W. 2–4 (19 May)

HOMEOSTASISCourse Organiser: Dr C. Schwiening E-mail: cjs30@cam.ac.ukFurther information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst/html>*All lectures take place in the Babbage Lecture Theatre Tu. Th. F. 12, unless otherwise stated.***DR R. H. S. CARPENTER**

Introduction; Cellular electrophysiology and nerve (Seven lectures, 17 Oct.–31 Oct.)

DR C. L-H. HUANG

Muscle (Five lectures, 4 Nov.–13 Nov.)

DR R. J. BARNES

Heart and circulation (Nine lectures, 14 Nov.–4 Dec.)

Practical Work

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

DR M. J. MASON

Respiration (Nine lectures, 15 Jan.–3 Feb.)

DR S. B. HLADKY

Fluids and electrolytes (Ten lectures, 5 Feb.–26 Feb.)

DR J. MASON

Digestion, absorption and storage (Six Lectures 27 Feb.–11 Mar.)

Practical Work

The same continued.

DR S. L. DICKSON

Energy balance and growth (Four lectures, 22 Apr.–29 Apr.)

DR R. I. WOODS

Temperature control (Two lectures, 30 Apr., 4 May)

DR C. SCHWIENING

Exam Briefing (One lecture, 6 May)

Practical Work

The same continued.

MOLECULES IN MEDICAL SCIENCECourse Organiser: Dr P. H. Rubery E-mail: phr2@cam.ac.uk*All lectures take place in the Babbage Lecture Theatre, New Museums Site, at M. 12, Tu. Th. 9***Introduction****DR P. H. RUBERY**

Introduction to the course (One lecture, 13 Oct.)

Metabolism in health and disease**PROF. K. SIDDLE**

Prologue. Diabetes mellitus as a metabolic disease (Two lectures, 14–16 Oct.)

DR M. O'CONNELL

Nutrition (Two lectures, 20–21 Oct.)

DR N. J. GAY

Protein structure and enzyme catalysis Five lectures, 23 Oct.–3 Nov.)

DR P. H. RUBERY

Bioenergetics and metabolism (Eight lectures, 4–20 Nov.)

PROF. R. F. IRVINE

Membrane dynamics and function; signalling by hormones (Five lectures, 24 Nov.–2 Dec.)

Macromolecules in health and disease**PROF. J. C. METCALFE**

Prologue. Cancer as a molecular disease (Two lectures, 15–19 Jan.)

DR S. BELL

Organisation, replication and repair of genome (Four lectures, 20–27 Jan.)

DR N. M. STANDART

Transcription, translation and control (Five lectures, 29 Jan.–9 Feb.)

DR N. J. GAY

Proteins in action: structure and function (Two lectures, 10–12 Feb.)

PROF. A. H. WYLLIE

Control of proliferation and death in cancer cells (Three lectures, 16–19 Feb.)

Macromolecules in health and disease (continued)**DR C. SHAW-SMITH**

Applications and implications of genome projects (One lecture, 22 Apr.)

DR D. W. MACDONALD

Genetics of complex diseases (Three lectures, 26–29 Apr.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

<p>PROF. K. SIDDLE Epilogue (One lecture, 4 Dec.)</p> <p>Experimental work and discussion; problem-based learning exercise <i>Department of Biochemistry, Downing Site</i> Detailed scheme in course handbook</p>	<p>PROF. C. FFRENCH-CONSTANT Transmission of genetic inheritance and the experimental tools of molecular genetics (Five lectures, 23 Feb.–2 Mar.)</p> <p>PROF. J. C. METCALFE Mesologue: cancer therapy (One lecture, 8 Mar.)</p> <p>Experimental work and discussion; problem-based learning exercise <i>Department of Biochemistry, Downing Site</i></p>	<p>Experimental work and discussion; bioinformatics learning exercise <i>Department of Biochemistry, Downing Site</i> The same continued.</p>
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VETERINARY ANATOMY AND PHYSIOLOGY
(Veterinary Students)

Course Organiser: Dr D. R. J. Bainbridge E-mail db125@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,

<p>Lectures. M. W. F. 9, Tu. 2 DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS Introduction (Three lectures, 10, 13, 15 Oct.) DR J. M. HOLMES, DR D. R. J. BAINBRIDGE, DR J. BRACKENBURY AND DR D. J. CHIVERS The Locomotor System. (Thirteen lectures, 17, 20, 22, 27, 29 Oct., 3, 5, 10, 12, 17, 24, 25, 26 Nov.) DR J. M. HOLMES The Nervous System (Four lectures, 1, 3 Dec. 16, 19 Jan.)</p> <p>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.)</p>	<p>Lectures. M. W. F. 9, Tu. 2 DR D. R. J. BAINBRIDGE AND DR J. M. HOLMES The Cardiovascular System. (Five lectures, 20, 21, 26, 28 Jan., 2 Feb.) DR J. H. BRACKENBURY The Respiratory System. (Two lectures, 4, 9 Feb.) DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR J. HICKSON The Digestive System. (Eight lectures, 11, 16, 18, 23, 25 Feb., 1, 3, 8 Mar.)</p> <p>Practical Work The same continued.</p>	<p>Lectures. M. W. F. 9 DR J. HICKSON AND DR J. PEARSON The Digestive System. (Four lectures, 23, 26, 28, 30 Apr.) DR D. R. J. BAINBRIDGE Urinary System. (Three lectures, 5, 7, 10 May.) DR J. M. HOLMES Integumentary System. (One lecture, 12 May)</p> <p>Practical Work The same continued.</p>
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INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE**(All students: SECOND M.B. & SECOND VET M.B. EXAMINATION)**

Course Co-ordinator: contact Prof. K. T. Khaw E-mail kk101@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>

<p>Lectures. <i>Babbage Lecture Theatre</i> W. 12 (Seven lectures, 22 Oct.–3 Dec.) PROF. K. T. KHAW Epidemiology, risk, methods, screening, inference and causation DR C. PALMER Biostatistics; estimating population measures (29 Oct., 3 Dec.)</p>	<p>W. 12 (Three lectures, 21, 28 Jan., 4 Feb.) DR C. PALMER Biostatistics cont.; testing hypotheses, comparing groups, interpreting research</p>
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MEDICAL SOCIOLOGY**(Medical students: SECOND M.B. EXAMINATION)**

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

<p>Lectures <i>Anatomy Lecture Theatre</i> M. 9 (Five lectures) DR T. MUNCEY (13, 27 Oct., 10, 24 Nov.) MS D. LEEDER Introduction to the CAL Package (1 Dec.)</p>	
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MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

PREPARING FOR PATIENTS A (FIRST YEAR STRAND)**(Medical students: SECOND M.B. EXAMINATION)**Course Organiser: Dr J. Silverman E-mail: js355@medschl.cam.ac.ukFurther 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 M. HUNT AND DR J. SILVERMAN
Briefings. Tu. 2-4, 21 or 28 Oct. or 4 or 11 Nov. *Anatomy
 Lecture Theatre*
 General Practitioner visits 2-5, 27 Oct. or 6 or 11 or 18 or
 20 or 25 or 27 or 2 Dec.

General Practitioner visits 2-5, 15 or 22 or
 27 Jan., or 3 or 10 or 12 or 17 or 19 Feb.

DR M. HUNT AND DR J. SILVERMAN
 Review 2-4, 27 Jan. or 9 or 10 or 16 or 17 or 23
 or 24 Feb. or 1 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.ukFurther information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

Lectures *Biffen Lecture Theatre, Department of Genetics*
 F. 9
 DR J. GIBSON AND OTHERS
 (Six lectures, 24 Oct.-28 Nov.)

Lectures *Biffen Lecture Theatre, Department of
 Genetics*
 F. 9, Tu. 2, Th. 9

DR J. GIBSON AND OTHERS
 (Eleven lectures, 23, 30 Jan., 6, 13, 17, 20, 24,
 27 Feb., 4, 5 Mar., Tu. 9 Mar. at 9)

Practical Work Tu. 2-4
 18 Nov. (*Biffen Lecture Theatre*)

Practical Work Tu. 2-4
 3 Feb. (*Clinical Vet School*)
 9 Mar. (*Biffen Lecture Theatre*)

CAL package
 Th. 2-4 23 Oct., 6 Nov., 20 Nov. or 30 Oct., 13 Nov.,
 27 Nov.

PREPARING FOR THE VETERINARY PROFESSION (FIRST YEAR STRAND)**(Veterinary students: SECOND VET M.B. EXAMINATION)**Course Organisers: Dr J. S. Gibson E-mail: jsg1001@cam.ac.uk, Mrs C. Latham E-mail: cel29@cam.ac.uk*Lectures will take place in the Biffen 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, 21, Oct.-11 Nov.)

Practical Work
 Th. 1.45-4.15 Two sessions of 23 Oct., 6 Nov., 20 Nov. or
 30 Oct., 13 Nov. or 27 Nov.

Practical Work
 Th. 1.45-4.15 Two sessions of 22 Jan., 5 Feb. or
 29 Jan. or 19 Feb.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1b

MICHAELMAS 2003

LENT 2004

EASTER 2004

BIOLOGY OF DISEASE

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

*All lectures take place in the Chemical Laboratory Lecture Theatre, Department of Chemistry on M. W. F. at 12 noon***Lectures.**

PROF. A. H. WYLLIE

Cell Injury. (One lecture, 10 Oct.)

DR A. MOFFETT

Innate Immune System; Acute Inflammation: Defence Mechanisms; Healing and Chronic Inflammation. (Three lectures, beginning 13 Oct.)

DR A. KELLY

The Adaptive Immune System; B Cells and Antibodies; The Major Histocompatibility Complex; T Cells. (Four lectures, beginning 20 Oct.)

PROF. J. TROWSDALE

Tolerance; Autoimmunity; Hypersensitivity; Transplantation / Immune Response to Infectious Agents. (Four lectures, beginning 29 Oct.)

PROF. A. C. MINSON

Viral Multiplication in the Host Cell; Nature of Viruses; Responses to Viral Infection; Acute and Chronic Infection; Epidemiology of Viral Infection; Combating Viral Infection; Prion Diseases. (Seven lectures, beginning 7 Nov.)

DR D. DUNNE

Introduction to Parasitic Diseases; Key Examples of Parasitic Diseases: Malaria; Key Examples of Parasitic Diseases: Schistosomiasis. (Three lectures, beginning 24 Nov.)

DR A. CARMICHAEL

Fungi. (One lecture, 1 Dec.)

Practical Work*Department of Pathology*

Tu. W. Th. and F. a.m. and p.m.

Lectures.

PROF. C. HUGHES

Bacterial Disease – Past, Present and Re-emerging; Bacteria: Prokaryotic Pathogens; Bacteria – Host Interaction: Pathogenicity; Host Damage – Toxins, the Host Response; Bacterial Pathogenicity in the Respiratory Tract; Bacterial Pathogenicity in the Gastrointestinal Tract; Combating Bacterial Disease. (Seven lectures, beginning 14 Jan.)

PROF. M. A. STANLEY

The Regulation of Tissue Growth and Organisation; Clinical Pathology of Tumours; Biology of Tumours; Genetic Basis of Neoplasia; Causes of Cancer. (Five lectures, beginning 30 Jan.)

DR C. PRINT

Blood Vessels and Atherosclerosis; Haemostasis, Thrombosis and Embolism; Ischaemia, Infarction, Heart Failure and Hypertension. (Three lectures, beginning 11 Feb.)

Department of Pathology

Tu. W. Th. and F. a.m. and p.m.

*Revision Classes Department of Pathology
Histopathology*

Th. 6 May a.m. and p.m., F. 7 May a.m. and p.m.

Microbiology

W. 12 May a.m. and p.m., F. 14 May a.m. and p.m.

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/facbio/mvst.html>**Lectures.**M. 11 *Babbage Lecture Theatre*

DR W. H. COLLEDGE

Endocrinology (Three lectures, 17, 24 Nov., 1 Dec.)

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

DR A. N. OTHER

Sexual differentiation (One lecture, W. 14 Jan. at 10)

Reproductive hormones: the sexual messengers (One lecture, Th. 15 Jan.)

Gametogenesis and ovarian cycles (Four lectures, M. 19 at 10, Tu. 20, W. 21, Th. 22 Jan.)

DR G. BURTON

Coition, fertilization and blastocyst development (Two lectures, Tu. 27, W. 28 Jan.)

Placentation (One lecture, Th. 29 Jan.)

DR R. J. BARNES

Maternal adaptations to pregnancy and placental physiology (Two lectures, Tu. 3, W. 4 Feb.)

Preparation for birth and delivery (Two lectures, Th. 5, Tu. 10, 12 Feb.)

Lactation and neonatal physiology (Two lectures, W. 11 Feb.)

REVD DR J. CADDICK

Principles of medical ethics (Five lectures, M. 16 at 11, W. 18, Th. 19 at 12, Tu. 24 at 12, Th. 26 Feb. at 4)

DR J. POWLES

Reproduction, demography and population health (Three lectures, Tu. 2, Th. 4, Tu. 9 Mar. all at 12)

PROF. M. RICHARDS

Human genetic technologies (One lecture, Th. 11 Mar.)

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MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

MECHANISMS OF DRUG ACTION

Course Organiser: Prof. M. J. Waring E-mail: mjl11@cam.ac.uk

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

DR J. M. EDWARDSON

Drug interactions with receptors and ion channels (Five lectures, 14–23 Oct.)

DR R. MURRELL-LAGNADO

Pharmacology of peripheral neural transmission (Five lectures, 25 Oct.–4 Nov.)

DR R. M. HENDERSON

Cardiovascular and renal pharmacology (Eight lectures, 6–22 Nov.)

DR J. S. GIBSON

Anthelmintics (Two lectures, 25, 27 Nov.)

Practical Work M. 2–5 or F. 2–5. (Weeks 2–7) Students attend 5 out of the six weeks. A detailed timetable will be posted in the Department.

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

DR S. B. HLADKY

Pharmacokinetics, drug metabolism, and general anaesthetics (Five lectures, 15–24 Jan.)

DR M. A. BARRAND

Chemotherapy (Five lectures, 27 Jan.–5 Feb.)

DR P. THORN

Pharmacology of inflammation and immunosuppression (Five lectures, 7–17 Feb.)

Practical Work

The same continued. (Weeks 1–5)

NEUROBIOLOGY AND ANIMAL BEHAVIOUR

(Veterinary Students)

Course Organiser: Dr H. R. Matthews E-mail: hrm1@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. F. 9 S. 11. *Babbage Lecture Theatre*Tu. 9 *Physiological Lecture Theatre 3*

DR R. J. KEYNES

Introduction to CNS (One lecture) Th. 9 Oct.

DR H. R. MATTHEWS

Biology of Neurons (Two lectures) F. 10, M. 13 Oct.

DR D. R. J. BAINBRIDGE

Meninges and CSF (One lecture) Tu. 14 Oct.

Physiological Lecture Theatre 3

DR J. M. HOLMES

CNS Overview (One lecture) Wed. 15 Oct.

Physiological Lecture Theatre 3

DR I. M. WINTER

Somatic Sensation and Pain (Three lectures) S. 18, M. 20, W. 22

DR D. J. TOLHURST

The Motor System (Five lectures) M. 27, W. 29 Oct. S. 1, M. 3, W. 5 Nov.

DR D. R. J. BAINBRIDGE

Cranial Nerves (Two lectures) Tu. 21 Oct. Tu 28 Oct.

Physiological Lecture Theatre 3

DR D. R. J. BAINBRIDGE

Sense Organs: Eye (Two lectures) Tu. 18 Nov., Tu. 11 Nov. *Physiological Lecture Theatre 3*

DR R. C. HARDIE

The Visual System (4 lectures) S. 8, M. 10, W. 12, S. 15 Nov.

DR D. R. J. BAINBRIDGE

Sense Organs: Ear (One lecture) Tu. 18 Nov.

Physiological Lecture Theatre 3

PROF. A. C. CRAWFORD

Hearing (Two lectures) M. 17, W. 19 Nov.

DR H. R. MATTHEWS

Olfaction and Taste (One lecture) S. 22 Nov.

DR A. C. ROBERTS

Arousal, Homeostasis and Motivation (Three lectures) M. 24, W. 26, F. 28. Nov.

DR R. J. FRANKLIN

Veterinary CNS (One lecture) Tu. 25 Nov., 2 Dec.

Physiological Lecture Theatre 3

DR J. ROGERS

Development, Plasticity and Repair of the Nervous System (Two lectures) M. 1, W. 3 Dec.

Practicals

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

LecturesM. W. F. 9, S. 11. *Physiological Lecture Theatre 3*

PROF. D. M. BROOM

Animal Behaviour (Seven lectures) W. 14, F. 16, M. 19, W. 21, F. 23, M. 26, W. 28 Jan.

PROF. P. MCNAUGHTON

Neuropharmacology (Three lectures) F. 30 Jan., M. 2, W. 4 Feb.

The same continued.

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

MICHAELMAS 2003

LENT 2004

EASTER 2004

NEUROBIOLOGY AND HUMAN BEHAVIOUR
(Medical Students)Course Organiser: Dr H. R. Matthews E-mail: hrl1@cam.ac.ukFurther information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>**Lectures**M. W. F. 9, S. 11 *Babbage Lecture Theatre*

DR R. J. KEYNES

Introduction to CNS (One lecture) Th. 9 Oct.

DR H. R. MATTHEWS

Biology of neurones (Two lectures) F. 10, M. 13 Oct.

DR R. J. KEYNES

Blood Brain Barrier, CSF and cerebral blood flow (One lecture) W. 15. Oct.

DR I. M. WINTER

Somatic Sensation and Pain (Three lectures) S. 18, M. 20, W. 22 Oct.

DR D. J. TOLHURST

The Motor System (Five lectures) M. 27, W. 29 Oct. S. 1, M. 3, W. 5 Nov.

DR R. C. HARDIE

The Visual System (4 lectures) S. 8, M. 10, W. 12, S. 15 Nov.

PROF. A. C. CRAWFORD

Hearing (Two lectures) M. 17, W. 19 Nov.

DR H. R. MATTHEWS

Olfaction and Taste (One lecture) S. 22 Nov.

DR A. C. ROBERTS

Arousal, Homeostasis and Motivation (Three lectures) M. 24, W. 26, F. 28 Nov.

DR J. ROGERS

Development, Plasticity and Repair of the Nervous System (Two lectures) M. 1, W. 3 Dec.

PracticalsPractical classes in Neuroanatomy and Neurophysiology
As indicated in the online timetables.**Lectures**M. W. F. 9, S. 11 *Babbage Lecture Theatre*

DR S. BARON COHEN AND PROF. B. J. EVERITT

Neurobiology of Mental Illness (Six lectures)
W. 14, F. 16, M. 19, W. 21, F. 23, S. 24 Jan.

DR P. J. RICHARDSON

Pharmacology and Drug Treatment of CNS Disorders (Six lectures) M. 26, W. 28, F. 30, S. 31 Jan., M. 2, W. 4 Feb.

DR A. C. ROBERTS

Neurobiology of Learning, memory and Cognition (Five lectures) F. 6, S. 7, M. 9, W. 11, F. 13 Feb.

**Clinical Demonstration
TO BE CONFIRMED**

Addenbrooke's Hospital

The same continued.

Psychology clinical demonstrations:

DR R. M. MCCARTHY, Anatomy Lecture Theatre.
Abnormal Psychology (W. 18 Feb. 12-1)

Lateral Asymmetries of Brain Function (Th. 19 Feb. 2-3)

Cognitive Disorders in Neurological Disease (F. 20 Feb. 12-1)

VETERINARY REPRODUCTIVE BIOLOGY
(Veterinary Students)Course Organiser: Prof. A. L. Fowden E-mail: alf1000@cam.ac.ukFurther 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, 17, 24 Nov., 1 Dec.)

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

PROF. A. L. FOWDEN

Reproductive Hormones W. 10 (14 Jan.);
Th. 9 (15 Jan.) (Two Lectures)

PROF. A. L. FOWDEN

Sexual Differentiation M. 10 (19 Jan.) (One Lecture)

DR J. GIBSON

Testes Tu. 9 (20 Jan.); W. 4 (21 Jan.) (Two Lectures)

DR J. GIBSON

Ovary Th. 9 (22 Jan.); Tu. 9 (27 Jan.); W. 4 (28 Jan.) (Three Lectures)

DR J. HOLMES

Mating Th. 9 (29 Jan.) (One Lecture)

DR D. BAINBRIDGE

Uterus Tu. 9 (3 Feb.) (One Lecture)

DR J. GIBSON

Fertilization W. 4 (4 Feb.) (One Lecture)

DR S. K. L. ELLINGTON

Early Pregnancy Th. 9 (5 Feb.); Tu. 9 (10 Feb.) (Two Lectures)

continued >

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

VETERINARY REPRODUCTIVE BIOLOGY (continued)

DR D. BAINBRIDGE Placenta W.4 (11 Feb.); Th. 9 (12 Feb.) (Two Lectures)
PROF. A. L. FOWDEN Fetal Growth M.11 (16 Feb.) (One lecture)
DR D. BAINBRIDGE AND PROF. A. L. FOWDEN Preparation for Birth W.4 (18 Feb.); Th.12 (19 Feb.); Tu.12 (24 Feb.) (Three Lectures)
PROF. A. L. FOWDEN Parturition Th.12 (26 Feb.) (One Lecture)
PROF. A. L. FOWDEN Postnatal Tu.12 (2 Mar.); Th.12 (4 Mar.) (Two lectures)
DR D. BAINBRIDGE Lactation Tu.12 (9 Mar.); Th.12 (11 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 15 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

EXPERIMENTAL PSYCHOLOGY

Course Organiser: Dr R. McCarthy E-mail: rm107@cam.ac.uk

SUBSTANCES OF ABUSE AND ADDICTION

Course Organiser: Dr J. Morton E-mail: ajm41@cam.ac.uk

TUMOUR BIOLOGY

Course Organiser: Dr P. A. W. Edwards E-mail: pawe@mole.bio.cam.ac.uk

CLINICAL AND APPLIED PHYSIOLOGY

Course Organiser: Professor J. T. Fitzsimons E-mail: jft10@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

List 2

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

APPLIED VETERINARY ANATOMY

Course Organiser: Dr D. Bainbridge E-mail: db125@cam.ac.uk

INFECTIOUS DISEASE IN ANIMALS AND MAN

Course Organiser: Dr H. Field E-mail: hjf10@cam.ac.uk

MAN, MOLECULES AND THE ENVIRONMENT

Course Organiser: Dr M. A. Barrand E-mail: mb10002@cam.ac.uk

SENSORIMOTOR NEUROBIOLOGY

Course Organiser: Dr H. R. Matthews E-mail: hmr1@cam.ac.uk

PREPARING FOR PATIENTS

(Medical Students)

Course Organiser: Dr J. Silverman E-mail: 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 1B (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

PREPARING FOR PATIENTS B (SECOND YEAR STRAND)

(Medical Students: Second MB Examination)

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 29 Sep. 10–12 *Pathology Lecture Theatre*
Review 2 or 3 Oct., 10–12 or 2–4 *Department of Pathology*

Group 2

Briefing 4 Dec. 11.30–1.30 *Pathology Lecture Theatre*
Review 9 or 10 Dec., 10–12 or 2–4 *Department of Pathology*

Group 3

Briefing 7 Jan. 10–12 *Pathology Lecture Theatre*
Review 12 or 13 Jan., 10–12 or 2–4 *Department of Pathology*

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. 4 Mar. 3–5,
Anatomy Lecture Theatre

PREPARING FOR PATIENTS D (THIRD YEAR STRAND)

(Medical Students: Second MB Examination)

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.

MS J. GRIFFITHS AND DR J. SILVERMAN

Briefing 8 Oct. 4–5.30 *Anatomy Lecture Theatre*
Review sessions 12 or 15 or 16 or 17 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 (SECOND YEAR STRAND)

(Veterinary students: Second Vet MB Examination)

Course Organiser: Mrs C. Latham (email: cel29@cam.ac.uk)

Lectures will take place in the Biffen 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>

DR R. FRANKLIN AND DR D. TUCKER

Department of Clinical Veterinary Medicine W. 8 Oct 2–4
Introduction

DR D. WILLIAMS

Veterinary Ethics. (Three lectures Th. 9 Oct. 12, M. 3 Nov. 12, M. 10 Nov.)

MR J. HOULTON

Veterinary Communication (One lecture 24 No. 10.)

PROF. I. MCCONNELL AND OTHERS

Department of Clinical Veterinary Medicine
Pharmaceutical Industry and Research (Two lectures W. 3 Dec. 12 and 2)

DR D. TUCKER AND OTHERS

Public health, food safety, zoonotic and notifiable disease
(Four lectures 10 Nov. 3–4, 24 Nov. 2–4)

Practicals

Department of Clinical Veterinary Medicine
3 Dec. 3–5

DR J. SILVERMAN

Department of Clinical Veterinary Medicine
(One lecture W. 14 Jan. 2)

Practicals

14 Jan. 3–5
Visit to Waltham Centre (20 Feb. all day)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II

MICHAELMAS 2003

LENT 2004

EASTER 2004

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 Lecture Theatre, Ground Floor, Department of Pathology, Tennis Court Road.

Seminars and Case Studies will be held in the same venue at 1.30 p.m. unless otherwise indicated.

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, First Floor, Department of Pathology

*** Greaves Room, First Floor, Department of Pathology

DR J. H. XUERE B

Tu. 8 Oct. Introduction to course
(Seminar) An introduction to dissertations ***

DR J. H. XUERE B

Tu. 7 Oct. Introduction to course
An introduction to dissertations
(Seminar)**

Infectious disease and Immunodeficiency

DR N. BROWN

W. 8 Oct. Sepsis and the host's response to infection.

DR T. BAGLIN

W. 8 Oct. Disseminated intravascular coagulation (Case study)**

DR M. FARRINGTON

Th. 9 Oct. Pneumonia – racing against the escalator.

PROF. A. C. MINSON

F. 10 Oct. The nature of prions

MS W. ROBERTS

F. 10 Oct. Electronic literature searches (Seminar)*

DR J. H. XUERE B

M. 13 Oct. Phenotypic spectrum of spongiform encephalopathy

MS W. ROBERTS

M. 13 Oct. Electronic literature searches (Seminar)*

PROF. A. LEVER

Tu. 14 Oct. Microbial invasion of the central nervous system

DR D. KUMARARATNE

W. 15 Oct. Vaccines against bacterial meningitis

DR A. LEVER

Th. 16 Oct. Molecular biology of human immunodeficiency virus

F. 17 Oct. Pathogenesis of AIDS

DR M. FARRINGTON AND DR T. WREGHITT

F. 17 Oct. Infection in the immunocompromised host (Case study)

DR A. CARMICHAEL

M. 20 Oct. Immunological controls of HIV infection

DR D. KUMARARATNE

Tu. 21 Oct. Mechanisms of immunity to mycobacteria in humans

DR J. H. XUERE B

Tu. 21 Oct. AIDS in mother and child (Case study)

DR D. KUMARARATNE

W. 22 Oct. Immunodeficiency - molecular mechanisms I

W. 22 Oct. Immunodeficiency - molecular mechanisms II
At 1.30 p.m.

DR A. LEVER

Th. 23 Oct. HTLV - infection and pathogenesis

Autoimmune disease and immunological malignancy

DR J. BRADLEY

M. 27 Oct. Vascular endothelium – physiology and pathophysiology

DR A. EXLEY

M. 27 Oct. The mucosal immune system At 1.30 p.m.

DR S. THIRU

Tu. 28 Oct. Hereditary angioneurotic oedema (Case study) At 10.30 a.m.

DR R. TOOZE

W. 29 Oct. Lymphoma: an immunological perspective I

Th. 30 Oct. Lymphoma: an immunological perspective II

PROF. J. H. GASTON

F. 31 Oct. The role of HLA antigens in the pathogenesis of arthritis

Tumour Biology

PROF. E. D. WILLIAMS

Tu. 13 Jan. Carcinogenesis, environment and growth control

DR M. ARENDS

W. 14 Jan. Familial predisposition to cancer: colorectal cancer.

DR J. H. XUERE B

W. 14 Jan. Hypertension and neurofibromatosis (Case study)

DR C. CALDAS

Th. 15 Jan. Molecular biology of breast cancer

DR L. BOBROW

Th. 15 Jan. A lump in the breast: a multidisciplinary approach to cancer (Case study)

DR M. ARENDS

F. 16 Jan. Infection and cancer: molecular biology of cervical cancer

PROF. A. GREEN

M. 19 Jan. Leukaemia I: transcriptional regulation of haemopoiesis

Tu. 20 Jan. Leukaemia II: molecular pathology

DR J. CRAIG

Tu. 20 Jan. Pathogenesis and management of leukaemia (Case study) At 2 p.m.

DR E. SOILLEUX

W. 21 Jan. The Langerhans cell and histiocytic disorders

PROF. E. R. CHILVERS

W. 21 Jan. Cavitating lung disease (Case study)

DR A. WHITEHEAD

Th. 22 Jan. Biology of neoplasms in children

PROF. V. P. COLLINS

F. 23 Jan. Cerebral gliomas: the pathway and molecular biology

DR J. H. XUERE B

F. 23 Jan. Clinico-anatomical correlation of pituitary adenoma. (Case study)

DR E. SOILLEUX

M. 26 Jan. Tumour immunology

PROF. V. P. COLLINS

M. 26 Jan. Cerebral oedema and intracranial pressure (Case study)

Transplantation

DR C. TAYLOR

Tu. 27 Jan. Histocompatibility

DR S. THIRU

W. 28 Jan. Immunobiology of transplantation and rejection I

Th. 29 Jan. Immunobiology of transplantation and rejection II

Th. 29 Jan. Immunobiology of transplantation and rejection III At 1.30 p.m.

DR E. BOLTON

F. 30 Jan. Molecular basis of immunosuppression

M. 2 Feb. Immunological tolerance in transplantation

DR J. H. XUERE B

M. 2 Feb. Dissertations: writing up (Seminar)***

PROF. A. BRADLEY

Tu. 3 Feb. Xenotransplantation: Concordant

W. 4 Feb. Xenotransplantation: Discordant

DR J. STERLING

Skin

M. 19 Apr. Normal and abnormal skin structure

M. 19 Apr. Dissertation Presentations (students) 1.30 p.m.

Tu. 20 Apr. Skin as a renewable organ

Tu. 20 Apr. Dissertation Presentations (students) 1.30 p.m.

W. 21 Apr. Skin as an organ of immunity

W. 21 Apr. Dissertation Presentations (students) 1.30 p.m.

Th. 22 Apr. Disorders of the skin immune system

Th. 22 Apr. Dissertation Presentations (students) 1.30 p.m.

F. 23 Apr. No Lecture Dissertation Presentations (students) 1.30 p.m.

The Circulation

PROF. P. WEISSBERG

M. 26 Apr. Atherosclerosis

DR J. STERLING

M. 26 Apr. Bullous skin disease (Case study)

PROF. M. BENNETT

Tu. 27 Apr. Pathobiology of intervention in coronary artery disease

Tu. 27 Apr. Coronary artery disease (Case study) At 11.45 a.m. following morning lecture

DR N. BURROWS

W. 28 Apr. Ehlers-Danlos syndrome (Case study) At 10.30 a.m.

DR M. GODDARD

F. 29 Apr. Ischaemic cardiomyopathy

DR J. H. XUERE B

F. 29 Apr. Infectious endocarditis (Case study)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

DR J. H. XUEREB
W. 5 Nov. Acute mono-arthritis (*Case study*)

DR K. G. SMITH
Th. 6 Nov. Systemic lupus erythematosus I
M. 10 Nov. Systemic lupus erythematosus II

DR J. XUEREB
The syndromes produced in renal injury (*Case study*)
Tu. 11 Nov. Inflammation in the CNS
Th. 13 Nov. Aetiology and pathogenesis of demyelinating diseases
Th. 13 Nov. Clinico-anatomical correlation in multiple sclerosis (*Case study*)

DR A. MARKER
F. 14 Nov. Autoimmunity in the thyroid gland
F. 14 Nov. Thyroid enlargement (*Case study*)

DR B. COTTRELL
M. 17 Nov. Infection and immunity in inflammatory bowel disease
M. 17 Nov. Inflammatory bowel disease (*Case study*)

Endocrine and Metabolic Disease

DR S. THIRU
Tu. 18 Nov. The kidney as an endocrine organ

DR J. COMPSTON
W. 19 Nov. Bone cell physiology
Th. 20 Nov. Pathology of metabolic bone disease

DR J. H. XUEREB
Th. 20 Nov. Paget's Disease (*Case study*)

DR S. MIDDLETON
F. 21 Nov. Gastrointestinal hormones and peptides
M. 24 Nov. Carcinoid syndrome

PROF. S. O'RAHILLY
Tu. 25 Nov. Understanding human obesity
W. 26 Nov. How insulin works and how it goes wrong

DR J. H. XUEREB
W. 26 Nov. Fasting hypoglycaemia (*Case study*)

DR S. THIRU
Th. 27 Nov. Mechanisms of renal damage in diabetes mellitus

PROF. K. CHATTERJEE
F. 28 Nov. Principles of nuclear hormone action
M. 1 Dec. Nuclear receptors in human disease
M. 1 Dec. Cushing's syndrome (*Case study*)

PROF. V. P. COLLINS
Tu. 2 Dec. Mitochondrial encephalomyopathies

PROF. T. COX
W. 3 Dec. The lysosome – a gateway to treatment
Th. 4 Dec. Iron – a noxious essential

DR N. COLEMAN
Th. 4 Dec. Metabolic effects of cancer (*Case study*)

DR D. O'DONOVAN
F. 5 Dec. Peroxisomal disorders

DR S. THIRU
Th. 5 Feb. Long term outcome of transplantation
Th. 5 Feb. A kidney graft for complications of Diabetes Mellitus (*Case study*)

DR S. CHANDRAN
F. 6 Feb. Transplantation in the central nervous system
M. 9 Feb. Endogenous stem cell responses to injury in the CNS

Gestational, Paediatric and Inherited Diseases

DR S. CHARNOCK-JONES
Tu. 10 Feb. Placental vascular morphogenesis
W. 11 Feb. Pathogenesis of pre-eclampsia
Th. 12 Feb. Gestational trophoblastic disease

DR A. WHITEHEAD
F. 13 Feb. Pathophysiology of disease in the premature baby

DR K. ONG
M. 16 Feb. Fetal and early infant development

DR J. WHITTAKER
M. 16 Feb. Diagnosis of genetic disease (*Case study*)

DR C. ACERINI
Tu. 17 Feb. Growth disorders of childhood

PROF. I. HUGHES
W. 18 Feb. Disorders of sex development

DR R. ILES
Th. 19 Feb. Molecular genetics and pathology of Huntington's disease

DR D. O'DONOVAN
F. 20 Feb. Biology and pathology of muscular dystrophy

DR J. H. XUEREB
F. 20 Feb. Muscle weakness and wasting (*Case study*)

DR J. YATES
M. 23 Feb. The genetic pathology of tuberous sclerosis

DR D. RUBINSZTEIN
Tu. 24 Feb. Molecular and cell biology of cystic fibrosis

DR E. REID
W. 25 Feb. Hereditary spastic paraplegia
*Seminar Room***

Pathophysiology of some organ based / systemic diseases

Brain

DR J. H. XUEREB
Th. 26 Feb. Amyloid deposition in the brain
F. 27 Feb. Biology and pathology of tau protein
*Seminar Room***
M. 1 Mar. Excitotoxicity *Seminar Room***

DR R. DAVIES
M. 1 Mar. Tau-related dementia syndromes (*Case study*)

PROF. R. CARRELL
Tu. 2 Mar. Conformational disease I
W. 3 Mar. Conformational disease II *Seminar Room***

Gastro-intestinal

DR V. SAVE
Th. 4 Mar. Pathophysiology of *Helicobacter* infection

DR S. THIRU
Th. 4 Mar. Cirrhosis and liver failure (*Case study*)
F. 5 Mar. Viral hepatitis I
M. 8 Mar. Viral hepatitis II

Kidney

DR S. THIRU
Tu. 9 Mar. Pathophysiology of progressive renal disease

DR J. BRADLEY AND DR S. THIRU
Tu. 9 Mar. End-stage renal failure (*Case study*)

Lung

DR M. GODDARD
W. 10 Mar. Pathophysiology of pulmonary microvasculature

DR R. ROSS-RUSSELL
W. 10 Mar. Asthma and its consequence (*Case study*)

DR S. STEWART
Th. 11 Mar. Respiratory tract hypersensitivity.
F. 12 Mar. Irreversible airway narrowing and alveolar wall destruction

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

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. 201)
 Option A Cellular and Genetic Pathology
 Option C Microbiology and Parasitology

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. 202)

Psychology

Course Organiser: Dr K. Plaisted E-mail: kcp1000@cam.ac.uk

This course consists of lectures from N.S.T. Part II Psychology (see p. 206)

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 Modules One, Two, Four and Five (see p. 203)

TWO PAPER SUBJECTS**Sensory and Motor Physiology**

Course Organiser: Dr J. Rogers E-mail: jhr11@cam.ac.uk

This course consists of lectures from NST Part II Physiology, Modules One and Two (see p. 203)

Cellular and Developmental Physiology

Course Organiser: Dr J. Rogers E-mail: jhr11@cam.ac.uk

This course consists of lectures from NST Part II Physiology, Modules Four and Five (see p. 204)

Medical Neurobiology and Systems Physiology

Course Organiser: Dr J. Rogers E-mail: jhr11@cam.ac.uk

This course consists of lectures from NST Part II Physiology, Modules Three and Six (see p. 204, 205)

Developmental and Systems Physiology

Course Organiser: Dr J. Rogers E-mail: jhr11@cam.ac.uk

This course consists of lectures from NST Part II Physiology, Modules Three and Four (see p. 204)

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, 8 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

All lectures take place in the *Part II Lecture Theatre, Department of Zoology*

(Note that for the M.V.S.T. Single Paper Conservation Biology only the modules taught in the Lent and Easter Terms apply. This subject also requires that a Critical Review organised by the Department of Zoology is completed in the Michaelmas Term for submission by 11 December.)

Population Biology.

Module Organiser: Prof. B. T. Grenfell

DR W. AMOS, DR B. T. GRENFELL, DR T. N. COULSON, DR S.

DALL AND DR R. JOHNSTONE

M. W. F. 5 (Twenty-four lectures, beginning 10 Oct.)

Conservation Biology.

Module Organiser: Dr A. Balmford

DR M. BROOKE, DR D. BRIGGS, DR W. AMOS,

DR A. BALMFORD, DR E. V. J. TANNER, DR D.

COOMES, DR R. GREEN, DR J. O'SULLIVAN

AND DR I. HODGE

M. W. F. 4 (Twenty-four lectures, beginning 16

Jan.)

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. 201)
 Option A Cellular and Genetic Pathology
 Option C Microbial and Parasitic Disease

Human Impact on the Environment

Module Organiser: Dr J. R. Flowerdew

DR J. R. FLOWERDEW AND MR I. T. LAWSON

M. W. F. 5 (Twelve lectures, beginning 23

Apr.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2003

LENT 2004

EASTER 2004

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. 202)

ONE PAPER SUBJECTS**Biology of Parasitism**

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

All lectures take place in *the Department of Clinical Veterinary Medicine* on M. W. Th. 4, unless otherwise stated

Information available on Faculty of Biology web-site. Dissertation available.

Lecture 1. Overview of developments (9 Oct.)
 Lectures 2–3. Morphology and life cycles (two lectures, beginning 13 Oct.)
 Lectures 4–9. Transmission, recognition of the host, behavioural adaptations (six lectures, beginning 16 Oct.)
 Lecture 10. Population stability (30 Oct.)
 Lectures 11–13. Season and hypobiosis (three lectures, beginning 3 Nov.)
 Lectures 14–20. Zoonoses (7 lectures, beginning 10 Nov.)
 Lecture 21–23. Pathophysiology and pathology (26 Nov.)
 Lecture 24. Invertebrate responses to parasites (3 Dec.)

Lecture 25. Immune responses to arthropods (15 Jan.)
 Lecture 26. Immune responses to gastrointestinal helminths (19 Jan.)
 Lectures 27–30. Immunity to and evasion by tissue parasites (four lectures, beginning 21 Jan.)
 Lectures 31–33. Chemotherapy and resistance (three lectures, beginning 29 Jan.)
 Lecture 34–35. Biological control (two lectures, beginning 5 Feb.)
 Lecture 36. Vaccination (11 Feb.)

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. 208)

Biological Anthropology

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

Medical Neurobiology

Course Organiser: Dr J. Rogers E-mail: jhr11@cam.ac.uk

This course consists of lectures from NST Part II Physiology, Module Six (see p. 205)

Medicine, Ethics and Law

Course Co-ordinator: Dr T. Lewens E-mail: tml1000@cam.ac.uk

Further onformation may be obtained from the Web at <http://www.cam.ac.uk/medical-ethics>

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 *Room A, Arts School*

The same continued. Tu. 4

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. 133)

Systems Physiology

Course Organiser: Dr J. Rogers E-mail: jhr11@cam.ac.uk

This course consists of lectures from NST Part II Physiology, Module Three (see p. 204)

Biomedical Technologies

Course Organiser: Dr O. Corrigan E-mail: ope22@cam.ac.uk

This course will consist of lectures from Paper Int 4 (see p. 133)

NATURAL SCIENCES TRIPOS, PART IA

MICHAELMAS 2003

LENT 2004

EASTER 2004

BIOLOGY OF CELLS

Course Organiser: Dr Keith Johnstone E-mail: keith.johnstone@plantsci.cam.ac.uk

All lectures take place in the *Babbage Lecture Theatre, New Museums Site* on M. W. F. 10

DR S. H. P. MADDELL

The Living Cell. (Four lectures, beginning 10 Oct.)

PROF. D. J. ELLAR

Macromolecules in the Cell. (Five lectures, beginning 20 Oct.)

DR M. TESTER

Membranes: Molecular Superstructures. (Five lectures, beginning 31 Oct.)

DR A. SMITH AND DR B. R. MARTIN

The Chemistry of Life. (Ten lectures, beginning 12 Nov.)

DR D. K. SUMMERS

Hunting the Gene. (Seven lectures, beginning 16 Jan.)

DR C. J. HOWE

Genes in Action. (Six lectures, beginning 2 Feb.)

PROF. D. GLOVER

The Genetic Revolution. (Six lectures, beginning 16 Feb.)

PROF. R. A. LASKEY

Cell Proliferation. (Five lectures, beginning 1 Mar.)

DR K. JOHNSTONE

Cell Signalling. (Six lectures, beginning 23 Apr.)

PROF. I. SMITH

Development. (Six lectures, beginning 7 May)

Practical work takes place in the *Zoological Laboratory* at 11–1 and 2–4 on M. or W. or F. For those doing Geology, practical times are 12–1 and 2–5; and for those doing Materials and Mineral Sciences times are 11–12 and 2–5. Students should register for all biological practical courses on Tuesday, 7 Oct. between 2.00 and 3.45 in the *Senate House*.

CHEMISTRY

Course Organiser: Dr J. H. Keeler E-mail: James.Keeler@ch.cam.ac.uk

All lectures will be given in *Lecture Room 1, Department of Chemistry, Lensfield Road* on Tu. Th. S. 10

DR P. D. WOTHERS

Shapes and Structures of Molecules. (Nineteen lectures)

DR W. P. NOLAN

Reactions and Mechanisms in Organic Chemistry. (Five lectures)

DR W. P. NOLAN

Reactions and Mechanisms in Organic Chemistry. (Nine lectures, continued)

DR J. H. KEELER

Energetics and Equilibria. (Nine lectures)

DR S. CLARKE

Kinetics of Reactions. (Six lectures)

DR P. D. WOTHERS

Chemistry of the Elements. (Twelve lectures)

Practical Chemistry: M. W. F. 10–12 or 11–1 and 2–5; Tu. Th. 11–1 and 2–5. Students should register in the *Department of Chemistry, Lensfield Road*, between 8.30 and 12.30 or 2 and 4.30 on Tuesday, 7 Oct. when they will be assigned attendance on the morning and afternoon periods of one particular day in either odd weeks (beginning Th. 9 Oct.) or even weeks (beginning Th. 16 Oct.) of the Michaelmas term

ELEMENTARY MATHEMATICS FOR BIOLOGISTS

Course Organiser: Dr S. Hladky E-mail: sbh1@cam.ac.uk

Course Website: www.phar.cam.ac.uk/teaching/EMB/

Elementary Mathematics for Biologists is intended for students who do not have A-level Mathematics. It is to be noted that this course does not provide a qualification for offering Mathematics together with only one other subject in Part IB of the Natural Sciences Tripos.

Lectures will be given at 9 a.m. in the *Rayleigh Lecture Theatre, New Museums Site*

DR S. B. HLADKY

Introduction. (One lecture, 10 Oct.) F.

DR S. B. HLADKY

Algebra, Units and Graphs. (Three lectures, 15–29 Oct.) W.

PROF. P. A. MCNAUGHTON

Logarithms and Raising to Powers. (Two lectures, 31 Oct., 3 Nov.) M. F.

DR J. ROGERS

Trigonometry and Graphs. (Three lectures, 7–14 Nov.) M. F.

DR R. W. BROADHURST

Calculus I. (Five lectures, 17 Nov.–1 Dec.) M. F.

DR F. H. KING AND DR S. B. HLADKY

Introduction to Computing and Excel. (Five sessions) (13–27 Oct.) M. F. 8.30–10 *Titan Rooms 1 and 2, New Museums Site*

THE LECTURERS

Examples classes (Five classes, 5 Nov.–3 Dec.) W. 9 *Large Classroom, Department of Pharmacology*

DR R. W. BROADHURST

Calculus II. (Six lectures, 16 Jan.–2 Feb.) M. F.

DR M. AITKIN

Statistics. (Ten lectures, 6 Feb.–8 Mar.) M. F.

THE LECTURERS

Examples classes (Eight classes, 21 Jan.–10 Mar.) W. 9 *Large Classroom, Department of Pharmacology*

DR S. B. HLADKY

Curve Fitting. (Three lectures, 23, 26 Apr., 7 May) M. F.

PROF. P. A. MCNAUGHTON

Frequency Analysis. (Two lectures, 30 Apr., 3 May) M. F.

THE LECTURERS

Revision lectures. (Two lectures, 10, 14 May) M. F.

THE LECTURERS

Examples classes (Two classes, 28 Apr., 12 May) W. 8.30–10 *PWF facility, Titan Rooms*, (Two classes, 5, 19 May) W. 9 *Large Classroom, Department of Pharmacology*

Examples classes: Two of the exercises in each of the Michaelmas and Lent terms and one from the Easter term will be assessed with marks counting towards the examination.