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

LECTURE-LIST – MICHAELMAS TERM 2003

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

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

Dissections and Prosections* 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)

HISTOLOGY
Course organiser: Dr Teresa Tiffert E-mail: 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 (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)

HOMEOSTASIS
Course Organiser: Dr C. Schwiening E-mail: cjs30@cam.ac.uk
Further 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. R. B. HILASKY
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., 6 May)

DR C. SCHWIENING
Exam Briefing (One lecture, 6 May)

MOLCEULES IN MEDICAL SCIENCE
Course 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 TRIPS, PART I A (continued)

#### MICHAELMAS 2003

<table>
<thead>
<tr>
<th>Lectures</th>
<th>M. W. F. 9, Tu. 2</th>
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<tbody>
<tr>
<td>DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS</td>
<td>Introduction (Three lectures, 10, 13, 15 Oct.)</td>
</tr>
<tr>
<td>DR J. M. HOLMES, DR D. R. J. BAINBRIDGE, DR J. BRACKENBURY AND DR D. J. CHIVERS</td>
<td>The Locomotor System. (Thirteen lectures, 17, 20, 22, 27, 29 Oct., 3, 5, 10, 12, 17, 24, 25, 26 Nov.)</td>
</tr>
<tr>
<td>DR J. M. HOLMES</td>
<td>The Nervous System (Four lectures, 1, 3 Dec. 16, 19 Jan.)</td>
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</table>

**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.)

### LENT 2004

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<tr>
<th>Lectures</th>
<th>M. W. F. 9, Tu. 2</th>
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<tbody>
<tr>
<td>DR D. R. J. BAINBRIDGE AND DR J. M. HOLMES</td>
<td>The Cardiovascular System. (Five lectures, 20, 21, 26, 28 Jan., 2 Feb.)</td>
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<tr>
<td>DR J. H. BRACKENBURY</td>
<td>The Respiratory System. (Two lectures, 4, 9 Feb.)</td>
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<tr>
<td>DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR J. HICKSON</td>
<td>The Digestive System. (Eight lectures, 11, 16, 18, 23, 25 Feb., 1, 3, 8 Mar.)</td>
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**Practical Work**

The same continued.

### EASTER 2004

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<tr>
<th>Lectures</th>
<th>M. W. F. 9</th>
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<tbody>
<tr>
<td>DR J. HICKSON AND DR J. PEARSON</td>
<td>The Digestive System. (Four lectures, 23, 26, 28, 30 Apr.)</td>
</tr>
<tr>
<td>DR D. R. J. BAINBRIDGE</td>
<td>Urinary System. (Three lectures, 5, 7, 10 May.)</td>
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<tr>
<td>DR J. M. HOLMES</td>
<td>Integumentary System. (One lecture, 12 May)</td>
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**Practical Work**

The same continued.

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### VETERINARY ANATOMY AND PHYSIOLOGY

(Veterinary Students)

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

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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](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)

### 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](http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html)
MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

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
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.

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

F: 9

DR J. GIBSON AND OTHERS
(Six lectures, 24 Oct.–28 Nov.)

**Practical Work** Tu. 2–4

18 Nov. (Biffen Lecture Theatre)

**CAL package**


**FARM ANIMAL HUSBANDRY**

(Veterinary students: SECOND VET M.B. EXAMINATION)

Course Organiser: Dr J. S. Gibson E-mail: 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** 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

3 Feb. (Clinical Vet School)

9 Mar. (Biffen Lecture Theatre)

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
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.

**Lectures**

Tu. 2

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, 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.


LECTURE-LIST—MICHAELMAS TERM 2003

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB

MICHAELMAS 2003

LECTURES.

PROF. A. H. WYLIE
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. 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. A. H. WYLIE
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. 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.

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. COLLIDGE
Endocrinology (Three lectures, 17, 24 Nov., 1 Dec.)
MECHANISMS OF DRUG ACTION

Course Organiser: Prof. M. J. Waring E-mail: mjw11@cam.ac.uk

Practical Work
The same continued. (Weeks 1–5)

NEUROBIOLOGY AND ANIMAL BEHAVIOUR

(Veterinary Students)

Further information may be obtained from the Faculty web site at http://www.bio.cam.ac.uk/sbs/facbio/mvst.html
### MEDICAL AND VETERINARY SCIENCES TRIPOS, PART I B (continued)

#### MICHAELMAS 2003

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<tr>
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<tr>
<td></td>
<td>DR. R. J. KEYNES</td>
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<td></td>
<td>Introduction to CNS (One lecture)</td>
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<td>DR. H. R. MATTHEWS</td>
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<td></td>
<td>Biology of neurones (Two lectures)</td>
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<td>DR. R. J. KEYNES</td>
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<td>DR. I. M. WINTER</td>
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<td>Somatic Sensation and Pain (Three lectures)</td>
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<td>DR. D. J TOLHURST</td>
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<td>DR. R. C. HARDIE</td>
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<td>The Visual System (4 lectures)</td>
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<td>PROF. A. C. CRAWFORD</td>
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<td>Hearing (Two lectures)</td>
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<td>DR. H. R. MATTHEWS</td>
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<td></td>
<td>Olfaction and Taste (One lecture)</td>
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<td>DR. A. C. ROBERTS</td>
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<td></td>
<td>Arousal, Homeostasis and Motivation (Three lectures)</td>
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<td>DR. J. ROGERS</td>
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<td>Development, Plasticity and Repair of the Nervous System (Two lectures)</td>
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<tr>
<th>Practicals</th>
<th>Practical classes in Neuroantomy and Neurophysiology</th>
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<td>As indicated in the online timetables.</td>
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<th>Lectures</th>
<th>M. W. F. 9, S. 11 Babbage Lecture Theatre</th>
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<tr>
<td></td>
<td>DR. S. BARON COHEN AND PROF. B. J. EVERITT</td>
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<td>DR. P. J. RICHARDSON</td>
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<td>DR. A. C. ROBERTS</td>
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<td></td>
<td>Neurobiology of Learning, memory and Cognition (Five lectures)</td>
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<th>Clinical Demonstration</th>
<th>TO BE CONFIRMED</th>
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<td>Addenbrooke's Hospital</td>
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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)

#### LENT 2004

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<th>Lectures</th>
<th>M. 10, Tu. 9, W.10 or 4, Th. 9 Biffen Lecture Theatre</th>
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<td>PROF. A. L. FOWDEN</td>
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<td>Reproductive Hormones</td>
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<td>PROF. A. L. FOWDEN</td>
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<td>Sexual Differentiation</td>
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<td>DR. J. GIBSON</td>
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<td>DR. J. GIBSON</td>
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<td>Ovary</td>
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<td>DR. J. HOLMES</td>
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<td>Mating</td>
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<td>DR. D. BAINBRIDGE</td>
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<td>Uterus</td>
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<td>DR. J. GIBSON</td>
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<td>Fertilization</td>
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<td>DR. S. K. L. ELLINGTON</td>
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<td>Early Pregnancy</td>
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#### EASTER 2004

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<tr>
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<td>DR. W. H. COLLEDGE</td>
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<td>Endocrinology (Three lectures, 17, 24 Nov., 1 Dec.)</td>
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### VETERINARY REPRODUCTIVE BIOLOGY

(Veterinary Students)

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<tr>
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<td>PROF. A. L. FOWDEN</td>
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<td>Sexual Differentiation</td>
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<td>DR. D. BAINBRIDGE</td>
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<td>DR. J. GIBSON</td>
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<td>Fertilization</td>
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<td>DR. S. K. L. ELLINGTON</td>
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<td>Early Pregnancy</td>
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Further information may be obtained from the Faculty Web site at [http://www.bio.cam.ac.uk/sbs/facbio/mvst.html](http://www.bio.cam.ac.uk/sbs/facbio/mvst.html)
VETERINARY REPRODUCTIVE BIOLOGY (continued)

DR. D. BAINBRIDGE
- Placenta: W.4 (11 Feb.); Th. 9 (12 Feb.) (Two Lectures)
- Fetal Growth: M.11 (16 Feb.) (One lecture)
- 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)
- Postnatal: Tu.12 (2 Mar.); Th.12 (4 Mar.) (Two lectures)
- 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: paw@mole.bio.cam.ac.uk

CLINICAL AND APPLIED PHYSIOLOGY
Course Organiser: Professor J. T. Fitzsimons E-mail: jft10@cam.ac.uk

COMPARATIVE VETERINATE 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: hrm1@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.
### 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](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

**Practicals**
- Department of Clinical Veterinary Medicine 
  - 14 Jan. 3–5 
  - Visit to Waltham Centre (20 Feb. all day)
## Medical and Veterinary Sciences Tripos, Part II
### MICHAELMAS 2003
#### Lectures

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 10.30 a.m. will be held at 10.30 a.m. daily in the Lecture Theatre, Ground Floor, Department of Pathology, Tennis Court Road.</td>
<td>DR S. THIRU, DR A. EXLEY, DR J. BRADLEY</td>
<td></td>
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<tr>
<td>Autoimmune disease and immunological malignancy</td>
<td>DR A. LEVER, DR D. KUMARARATNE, DR D. KUMARARATNE, DR A. CARMICHAEL, DR M. FARRINGTON AND DR T. BAGLIN</td>
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<tr>
<td>Infectious disease and immunodeficiency</td>
<td>DR N. BROWN</td>
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<td></td>
<td>W. 8 Oct</td>
<td>Disseminated intravascular coagulation (Case study)</td>
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<td></td>
<td>W. 10 Oct</td>
<td>The nature of prions</td>
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<td></td>
<td>DR M. GODDARD, DR N. BURROWS</td>
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<tr>
<td></td>
<td>M. 27 Oct</td>
<td>The mucosal immune system</td>
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<td></td>
<td>M. 27 Oct</td>
<td>Vascular endothelium</td>
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<tr>
<td></td>
<td>W. 22 Oct</td>
<td>Immunodeciency - molecular mechanisms I</td>
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<tr>
<td></td>
<td>W. 22 Oct</td>
<td>Immunodeciency - molecular mechanisms II</td>
</tr>
<tr>
<td></td>
<td>Tu. 20 Oct</td>
<td>Pathobiology of intervention in cardiovascular disease</td>
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<tr>
<td></td>
<td>Th. 21 Oct</td>
<td>Coronary artery disease (Case study)</td>
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<td></td>
<td>M. 19 Jan</td>
<td>Immunodeciency: the pathway and molecular biology</td>
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<td></td>
<td>M. 19 Jan</td>
<td>Clinico-anatomical correlation of pituitary adenoma. (Case study)</td>
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<tr>
<td></td>
<td>M. 26 Jan</td>
<td>Tumour immunology</td>
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<tr>
<td></td>
<td>M. 26 Jan</td>
<td>Cerebral oedema and intracranial pressure (Case study)</td>
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<tr>
<td>Tumour Biology</td>
<td>PROF. J. TAYLOR</td>
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<td></td>
<td>Tu. 27 Jan</td>
<td>Histocompatibility</td>
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<td></td>
<td>Tu. 27 Jan</td>
<td>Immunochemistry of transplantation and rejection I</td>
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<tr>
<td></td>
<td>Tu. 27 Jan</td>
<td>Immunochemistry of transplantation and rejection II</td>
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<tr>
<td></td>
<td>Th. 29 Jan</td>
<td>Immunochemistry of transplantation and rejection III At 1.30 p.m.</td>
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<td></td>
<td>M. 2 Feb</td>
<td>Immunological tolerance in transplantation</td>
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<td></td>
<td>M. 2 Feb</td>
<td>Dissertations: writing up (Seminar)**</td>
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<tr>
<td></td>
<td>M. 2 Feb</td>
<td>Xenotransplantation: Concordant</td>
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<tr>
<td></td>
<td>W. 4 Feb</td>
<td>Xenotransplantation: Discordant</td>
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</tbody>
</table>

### LENT 2004
#### Lectures

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>At 10.30 a.m. till 11.30 a.m.</td>
<td>DR J. H. XUEREB</td>
<td></td>
</tr>
<tr>
<td>Case Studies</td>
<td>1.30 p.m. till 3.30 p.m.</td>
<td>DR S. THIRU, DR A. EXLEY, DR J. BRADLEY</td>
</tr>
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<td></td>
<td>Seminar Room, Ground Floor, The Clinical School, Addenbrooke's Hospital</td>
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<tr>
<td></td>
<td>** Seminar Room, First Floor, Department of Pathology</td>
<td>DR J. H. XUEREB, DR C. TAYLOR</td>
</tr>
<tr>
<td></td>
<td>*** Greaves Room, First Floor, Department of Pathology</td>
<td>DR S. THIRU, DR A. EXLEY, DR J. BRADLEY</td>
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<tr>
<td></td>
<td>At 1.30 p.m.</td>
<td>DR S. THIRU, DR A. EXLEY, DR J. BRADLEY</td>
</tr>
<tr>
<td></td>
<td>At 2 p.m.</td>
<td>DR J. H. XUEREB, DR M. GODDARD, DR N. BURROWS</td>
</tr>
<tr>
<td></td>
<td>At 3.30 p.m.</td>
<td>DR J. H. XUEREB, DR M. GODDARD, DR N. BURROWS</td>
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</tbody>
</table>

### EASTER 2004
#### Lectures

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>An introduction to dissertations</td>
<td>DR J. H. XUEREB, DR S. THIRU</td>
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<tr>
<td></td>
<td>At 11.45 a.m.</td>
<td>DR S. THIRU, DR A. EXLEY, DR J. BRADLEY</td>
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<tr>
<td></td>
<td>At 2 p.m.</td>
<td>DR J. H. XUEREB, DR M. GODDARD, DR N. BURROWS</td>
</tr>
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</table>

### 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.

**Presentations (students)** 1.30 p.m

**Dissertation Presentations** 1.30 p.m

**Notes**

1. **Medical and Veterinary Sciences Tripos, Part II**

2. **Lectures**

3. **Case Studies**

4. **Lecturers**

5. **Seminars and Case Studies**

6. **MICHAELMAS 2003**

7. **LENT 2004**

8. **EASTER 2004**

9. **Four Paper Subjects**

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

11. **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.

12. **Notes**

13. **Special No. 1**
SPECIAL NO. 1] LECTURE-LIST
– MICHAELMAS TERM 2003 175

continued

DR J. H. XUERE B
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. XUERE B
The syndromes produced in renal injury (Case study)
Th. 13 Nov. Autoimmunity in the CNS
M. 10 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. Inflammation in the 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. XUERE B
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. XUERE B
W. 26 Nov. Fasting hypoglycaemia (Case study)

DR J. THIRU
Th. 27 Nov. Long term outcome of transplantation
Th. 5 Feb. Long term outcome of transplantation
M. 9 Feb. Endogenous stem cell responses to injury in the CNS

Gestational, Paediatric and Inherited Diseases

DR S. CHOWNOCK-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 W. DONOVAN
F. 20 Feb. Muscle weakness and wasting (Case study)

PROF K. CHATTERJEE
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

PROF. I. HUGHES
Tu. 17 Feb. Growth disorders of childhood

DR R. ILES
W. 18 Feb. Disorders of sex development

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

PROF. T. COX
W. 3 Dec. The lysosome – a gateway to treatment

DR R. DA VIES
M. 1 Dec. Fetal and early infant development

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

DR S. CHARNOCK-JONES
Tu. 10 Feb. Placental vascular morphogenesis

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

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

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

Pathophysiology of some organ based / systemic diseases

Brain

DR J. H. XUERE B
Th. 26 Feb. Amyloid deposition in the brain
F. 27 Feb. Biology and pathology of tau protein Seminar Room**

M. 1 Dec. Nuclear receptors in human disease

M. 1 Dec. Cushing’s syndrome (Case study)

PROF. R. ILES
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

Gastro-intestinal

DR S. THIRU
W. 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. Irreversible airway narrowing and alveolar wall destruction

MEDICAL AND VETERINARY SCIENCES TRIP OS, PART II (continued)
MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2003

Pathology
Course Organiser: Dr I. Brierley E-mail: ib103@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. Balmlford
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 Parasitologic Disease
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.) | Lecture 25. Immune responses to arthropods (15 Jan.) |
| Lectures 4–9. Transmission, recognition of the host, behavioural adaptations (six lectures, beginning 16 Oct.) | Lectures 27–30. Immunity to and evasion by tissue parasites (four lectures, beginning 21 Jan.) |
| Lectures 11–13. Season and hypobiosis (three lectures, beginning 3 Nov.) | Lecture 34–35. Biological control (two lectures, beginning 5 Feb.) |
| Lecture 21–23. Pathophysiology and pathology (26 Nov.) | |
| Lecture 24. Invertebrate responses to parasites (3 Dec.) | |

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 information 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

DR T. LEWENS AND OTHERS
Medical Ethics. Tu. 4 Room A, Arts School

The same continued. M. 4 Law Faculty
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: opc22@cam.ac.uk

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

**CHEMISTRY**

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

**ELEMENTARY MATHEMATICS FOR BIOLOGISTS**

Course Organiser: Dr S. Hladky E-mail: sbh1@cam.ac.uk
Course Website: www.phar.cam.ac.uk/teaching/EMB/

**NATURAL SCIENCES TRIPOS, PART Ia**

**MICHAELMAS 2003**

**LENT 2004**

**EASTER 2004**

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**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.

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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.

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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.