

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1b

MICHAELMAS 2006

LENT 2007

EASTER 2007

BIOLOGY OF DISEASECourse Organiser: Dr I. B. Kingston (email: ibk1000@cam.ac.uk)All lectures take place in the *Chemical Laboratory Lecture Theatre, Department of Chemistry* on M. W. F. at 12 noon

PROF. M. A. STANLEY

Cell Injury. (One lecture, 6 Oct.)

DR A. MOFFETT

Innate Immune System; Acute Inflammation: Defence Mechanisms; Healing and Chronic Inflammation. (Three lectures, beginning 9 Oct.)

DR A. KELLY

The Adaptive Immune System; B Cells and Antibodies; The Major Histocompatibility Complex; T Cells. (Four lectures, beginning 16 Oct.)

PROF. J. TROWSDALE

Tolerance; Autoimmunity; Hypersensitivity; Transplantation/Immune Response to Infectious Agents. (Four lectures, beginning 25 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 3 Nov.)

DR I. B. KINGSTON

Introduction to Parasitic Diseases; Key Examples of Parasitic Diseases: Malaria; Key Examples of Parasitic Diseases: Schistosomiasis. (Three lectures, beginning 20 Nov.)

DR A. CARMICHAEL

Fungi. (Two lectures, beginning 27 Nov.)

Practical Work. *Department of Pathology*
Tu. W. Th. and F. a.m. and p.m.

DR G. FRASER

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 17 Jan.)

Note the early start of this course

PROF. A. WYLLIE

Vascular reactions to injury; Atherosclerosis; Ischaemia, Infarction and their results. (Three lectures, beginning 2 Feb.)

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 9 Feb.)

Practical Work. *Department of Pathology*
Tu. W. Th. and F. a.m. and p.m.**Practical Work: Revision Classes** *Department of Pathology***Histopathology**

Th. 10 May a.m. and p.m., F. 11 May a.m. and p.m.

Microbiology

W. 16 May a.m. and p.m., F. 18 May a.m. and p.m.

COMPARATIVE VERTEBRATE BIOLOGY

(Veterinary Students)

Course Organiser: Dr J. H. Brackenbury (email: jhb1000@hermes.cam.ac.uk)Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>DR J. H. BRACKENBURY AND DR W. A. HARRIS
Vertebrate Structure and Function. (Eight lectures, 19, 21 Feb., 1, 7, 12, 14, 15 Mar.)
M. and W. 9, Th. 10 and 12, *Arts School Room A*; M. and W. 12 in *Biffen Lecture Theatre*.DR D. R. J. BAINBRIDGE, DR J. H. BRACKENBURY
AND DR D. J. CHIVERS
The Mammalian Head. (Six lectures, 21, 27, 28 Feb., 6, 8, 13 Mar.) W. 9 and Tu. Th. 10
Arts School Room A; W. 12 *Biffen Lecture Theatre*.**Practical Work**

Dissection of the domestic animals, examination of live animals, fresh viscera, radiographs, laboratory work and other activities. (M. and W. 10–12)

DR J. H. BRACKENBURY AND MRS J. PEARSON
Vertebrate Structure and Function
(continued). (Five lectures, 2, 3, 7, 9, 11 May) M. W. F. 9, *Arts School Room A*;
Th. 9 in the *Biffen Lecture Theatre*.DR D. R. J. BAINBRIDGE
The Mammalian Head (continued). (Four lectures, 25, 26 Apr. 4, 9, May) W. Th. 9
Anatomy Lecture Theatre; W. 12,
F. 9 in the *Biffen Lecture Theatre*.**Practical Work**

The same continued.

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

MICHAELMAS 2006

LENT 2007

EASTER 2007

HUMAN REPRODUCTION

(Medical Students)

Course Organiser: Dr R. J. Barnes (email: rjb4@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>All lectures take place in the *Anatomy Lecture Theatre*, on M. Tu. Th. S. 9, W. 2 unless otherwise stated.

DR W. H. COLLEDGE

Endocrinology. (Three lectures, 13, 20, 27 Nov.) M. 11
Chemistry Lecture Theatre

DR P. SCHOFIELD

Sexual Differentiation. (One lecture, 17 Jan.)
Reproductive Hormones: the Sexual
Messengers (One lecture, 18 Jan.)
Gametogenesis and Ovarian Cycles. (Three
lectures, 23, 24, 25 Jan.)

PROF. G. BURTON

Coition, Fertilization and Blastocyst
Development. (Three lectures, 30, 31 Jan.
1 Feb.)
Placentation (One lecture, 6 Feb.)

DR R. J. BARNES

Maternal Adaptations to Pregnancy and
Placental Physiology. (Two lectures,
7, 8 Feb.)Preparation for Birth and Delivery. (Two
lectures, 13, 14 Feb.)Lactation and Neonatal Physiology (Two
lectures, 15, 20 Feb.)

REVD DR J. CADDICK

Principles of Medical Ethics. (Five lectures,
22, 27 Feb., 1, 5, 6 Mar.)

DR J. POWLES

Reproduction, Demography and Population
Health. (Three lectures, 8, 12, 13 Mar.)

DR E. GKRAMIA-KLOTSAS

HIV & Aids (One lectures F. 11, 16 Mar.)

MECHANISMS OF DRUG ACTION

Course organiser: Dr Z. Sarnyai (email: zs220@cam.ac.uk)

Further information may be obtained from the Department of Pharmacology Web site at http://www.phar.cam.ac.uk/undergrads/under_mvst1b_moda.html**Lectures.** M. 10 *Babbage Lecture Theatre*; Tu. Th. 12
Chemistry Main Lecture Theatre

DR J. M. EDWARDSON

Drug Interactions with Receptors and Ion Channels. (Five
lectures, 10–19 Oct.)

PROF. D. M. F. COOPER

Pharmacology of Peripheral Neural Transmission. (Five
lectures, 23–31 Oct.)

DR R. M. HENDERSON

Cardiovascular and Renal Pharmacology. (Six lectures,
2–14 Nov.)**Medical Students****Lectures.** M. 10 *Babbage Lecture Theatre*; Tu. Th. 12
Chemistry Main Lecture Theatre

DR R. M. HENDERSON

Human Aspects of Cardiovascular and Renal
Pharmacology (Four lectures, 16–23 Nov.)**Veterinary Students****Lectures.** M. 10, Tu. Th. 12 *Lecture Theatre, Department
of Pharmacology*

DR J. S. GIBSON

Anthelmintics (Two lectures, 16, 20 Nov.)

DR J. BREARLY

Aspects of Special Veterinary Pharmacology (Two
lectures, 21, 23 Nov.)**Practical Work.** M. 2–5 or F. 2–5. (Weeks 2–7)Students attend five out of the six weeks. A detailed
timetable will be posted in the Department.**Lectures.** M. 11 *Babbage Lecture Theatre*; Tu.
Th., 12 *Chemistry Main Lecture Theatre*

DR R. D. MURRELL-LAGNADO

Pharmacokinetics, Drug Metabolism, and
General Anaesthetics. (Five lectures,
18–25, 30 Jan.)

DR M. A. BARRAND

Pharmacology of Inflammation and
Immunosuppression. (Five lectures, 1–8,
13 Feb.)

DR H. W. VAN VEEN

Chemotherapy. (Five lectures, 15–22, 27 Feb.)

Practical Work.

The same continued. (Weeks 1–5)

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

MICHAELMAS 2006

LENT 2007

EASTER 2007

NEUROBIOLOGY AND ANIMAL BEHAVIOUR

(Veterinary Students)

Course Organiser: Dr I. M. Winter (email: imw1001@cam.ac.uk)

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

All lectures take place in the *Babbage Lecture Theatre*, on M. W. F. 9 and *Physiology Lecture Theatre 3*, on Tu. 9 unless otherwise stated.

DR S. A. EDGLEY

Introduction to CNS. (One lecture, 5 Oct.)

DR H. R. MATTHEWS

Biology of neurons. (Two lectures, 6, 9 Oct.)

DR D. R. J. BAINBRIDGE

CNS Morphology. (One lecture, 10 Oct.) *Physiology Lecture Theatre 3*

DR J. M. HOLMES

CNS Overview. (One lecture, 11 Oct.) *Physiology Lecture Theatre 3*

DR I. M. WINTER

Somatic Sensation and Pain. (Three lectures, 13, 16, 18 Oct.)

DR D. R. J. BAINBRIDGE

CNS Environment. (One lecture, 17 Oct.) *Physiological Lecture Theatre 3*

DR R. M. HENDERSON

Pharmacology of Pain. (One lecture, 20 Oct.)

DR S. A. EDGLEY

The Motor System. (Five lectures, 23, 25, 27, 30 Oct. 1 Nov.)

DR D. R. J. BAINBRIDGE

Cranial Nerves. (Two lectures, 24, 31 Oct.) *Physiology Lecture Theatre 3*

PROF. R. C. HARDIE

The Visual System. (4 lectures, 3, 6, 8, 10 Nov.)

DR D. R. J. BAINBRIDGE

Eye: Neurological Aspects. (One lecture, 7 Nov.) *Physiology Lecture Theatre 3*

DR H. R. MATTHEWS

Olfaction and Taste. (One lecture, 13 Nov.)

DR D. R. J. BAINBRIDGE

Ear: Neurological Aspects. (One lecture, 14 Nov.) *Physiology Lecture Theatre 3*

PROF. A. C. CRAWFORD

Hearing. (Two lectures, 15, 17 Nov.)

PROF. R. J. M. FRANKLIN

Veterinary CNS. (Two lectures, 21, 28 Nov.) *Physiology Lecture Theatre 3*

DR A. C. ROBERTS

Arousal, Homeostasis and Motivation. (Three lectures, 20, 22, 24 Nov.)

DR J. H. ROGERS

Development, Plasticity and Repair of the Nervous System. (Two lectures, 27, 29 Nov.)

Practicals

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

PROF. D. BROOM

Animal Behaviour. (Seven lectures, 17, 19, 22, 24, 26, 29, 31 Jan.)

DR R. M. HENDERSON

Neuropharmacology. (Three lectures, 2, 5, 7 Feb.)

Practicals

The same continued.

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

MICHAELMAS 2006

LENT 2007

EASTER 2007

NEUROBIOLOGY AND HUMAN BEHAVIOUR

(Medical Students)

Course Organiser: Dr I. M. Winter (email: imw1001@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>All lectures take place in the *Babbage Lecture Theatre* M. W. F. 9

DR S. A. EDGLEY
Introduction to CNS. (One lecture, 5 Oct.)

DR H. R. MATTHEWS
Biology of Neurons. (Two lectures, 6, 9 Oct.)

DR S. JONES
Blood Brain Barrier, CSF and Cerebral Blood Flow. (One lecture, 11. Oct.)

DR I. M. WINTER
Somatic Sensation and Pain. (Three lectures, 13, 16, 18 Oct.)

DR R. M. HENDERSON
Pharmacology of Pain. (One lecture, 20 Oct.)

DR S. A. EDGLEY
The Motor System. (Five lectures, 23, 25, 27, 30 Oct., 1 Nov.)

PROF. R. C. HARDIE
The Visual System. (Four lectures, 3, 6, 8, 10 Nov.)

DR H. R. MATTHEWS
Olfaction and Taste. (One lecture, 13 Nov.)

PROF. A. C. CRAWFORD
Hearing. (Two lectures, 15, 17 Nov.)

DR A. C. ROBERTS
Arousal, Homeostasis and Motivation. (Three lectures, 20, 22, 24 Nov.)

DR J. ROGERS
Development, Plasticity and Repair of the Nervous System. (Two lectures, 27, 29 Nov.)

Practical Work

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

PROF. B. J. EVERITT
Neurobiology of Mental Illness I. (Three lectures, 17, 19, 22 Jan.)

DR L. CLARK
Neurobiology of Mental Illness II. (Three lectures, 24, 26, 29 Jan.)

DR I. MCLAREN
Psychology of Cognition and Memory. (Two lectures, 31 Jan., 2 Feb.)

DR A. C. ROBERTS
Neurobiology of Learning, Memory and Cognition. (Five lectures, 5, 7, 9, 12, 14 Feb.)

DR P. J. RICHARDSON
Pharmacology and Drug Treatment of CNS Disorders. (Six lectures, 16, 19, 21, 26, 28 Feb., 2 Mar.)

Clinical Demonstration

23 Feb., 9–11 *William Harvey Lecture Theatre, Addenbrooke's Hospital*

VETERINARY REPRODUCTIVE BIOLOGY

(Veterinary Students)

Course Organiser: Dr D. R. J. Bainbridge (email: db125@cam.ac.uk)

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

DR W. H. COLLEDGE
Endocrinology. (Three lectures, 13, 20, 27 Nov.) M. 11.
Chemistry Lecture Theatre

DR A. FORHEAD
Reproduction. (Six lectures, 18, 20, 23, 25, 27, 30 Jan. Tu. Th. Sa. 9 *Physiology Lecture Theatre 1*

DR S. K. L. ELLINGTON
Development. (Two lectures 1, 3 Feb.) Th. Sa. 9 *Physiology Lecture Theatre 1*

DR D. R. J. BAINBRIDGE, DR J. GIBSON
Biology of Pregnancy. (Four lectures, 6, 8, 10, 13 Feb.) Tu. Th. Sa. 9 *Physiology Lecture Theatre 1*

DR D. R. J. BAINBRIDGE,
Birth, Lactation and the Neonate. (Three lectures, 15, 17, 20 Feb.) Tu. Th. Sa. 9 *Physiology Lecture Theatre 1*

DR J. GIBSON, DR J. HOLMES, DR D. R. J. BAINBRIDGE
Comparative Aspects of Reproduction. (Nine lectures 22, 27 Feb., 1, 5, 6, 8, 12, 13, 15 Mar.) M. Tu. Th. Sa. *Arts School Room B*

Practical Work

Anatomy and physiology of the mammalian reproductive system. (M. and Th. 2–4)

Practical Work

The same continued. (F. 10–12)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART Ib (continued)

MICHAELMAS 2006

LENT 2007

EASTER 2007

SPECIAL OPTIONS SUBJECTS

(Medical Students)

Courses will be offered in the options set out below in the two lists. Lectures and practicals will commence in the week beginning 27 February and continue in the Easter Term. Candidates are required to take one option from each list. Restrictions on numbers apply to some options. Detailed timetables, and links to further information are posted on the Faculty web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>. Vet students do not take the special options but instead take a compulsory course in Comparative Vertebrate Biology (see p. xx).

List 1

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

CLINICAL AND APPLIED PHYSIOLOGYCourse Organiser: Dr R. J. Barnes (email: rjb4@emma.cam.ac.uk)**EXPERIMENTAL PSYCHOLOGY**Course Organiser: Dr R. McCarthy (email: rm107@cam.ac.uk)**INFECTIOUS DISEASES**Course Organiser: Dr I. B. Kingston (email: ibk1000@cam.ac.uk)**JANUS DRUGS: USE AND ABUSE**Course Organiser: Dr A. J. Morton (email: ajm41@cam.ac.uk)**List 2**

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

DEVELOPMENTAL BIOLOGYCourse Organiser: Dr P. Schofield (email: ps@mole.bio.cam.ac.uk)**MAN, MOLECULES AND THE ENVIRONMENT**Course Organiser: Dr M. Barrand (email: mb10002@cam.ac.uk)**SENSORIMOTOR NEUROBIOLOGY**Course Organiser: Dr I. M. Winter (email: imw1001@cam.ac.uk)**TUMOUR BIOLOGY**Course Organiser: Dr P. A. W. Edwards (email: pawe1@cam.ac.uk)**PREPARING FOR PATIENTS**

(Medical Students: SECOND M.B. EXAMINATIONS)

Course Organiser: Dr J. Silverman (email: js355@medschl.cam.ac.uk)Further information may be obtained from the Faculty Website 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)

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.

MRS J. GRIFFITHS AND DR J. SILVERMAN

Group 1

Briefing. 25 Sep., 10–12 *Pathology Lecture Theatre*
Review. 28 Sept., or 29 Sept., 9–10.30, 11–12.30, or
 2–3.30, 4–5.30 *Department of Pathology Seminar
 Room*

Group 2

Briefing. 30 Nov., 10–12 *Anatomy Lecture Theatre*
Review. 5 or 6 Dec., 9–10.30, 11–12.30, or 2–3.30, 4–5.30
Department of Pathology Seminar Room

Group 3

Briefing. 10 Jan., 10–12 *Pathology Lecture Theatre*
Review. 15 or 16 Jan., 9–10.30, 11–12.30, or 2–3.30,
 4–5.30 *Department of Pathology Seminar Room*

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

MICHAELMAS 2006

LENT 2007

EASTER 2007

PREPARING FOR PATIENTS C (Second Year Strand)

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

DR J. GRIFFITHS AND DR J. SILVERMAN
Briefing. 8 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 (NST Part II or other Triposes) medical students are expected to follow the fourth strand of Preparing for Patients.

MRS J. GRIFFITHS AND DR J. SILVERMAN
Briefing. 4 Oct. 4–5.30 *Anatomy Lecture Theatre*

Review. 15 or 16 or 19 or 20 Mar., 10–12 or 2–4
Mill Lane Lecture Room 6

Students will be notified which session to attend.

PREPARING FOR THE VETERINARY PROFESSION (Second Year Strand)
 (Veterinary Students: Second Vet MB Examination)

Course Organiser: Mr A. Jefferies (email: crj10@cam.ac.uk)

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

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

DR R. FRANKLIN AND DR D. TUCKER
 Veterinary History and Animal/Human Health Interface.
 (Two lectures, 4 Oct. W. 2–4.) *Department of
 Veterinary Medicine*

DR D. WILLIAMS
 Veterinary Ethics. (Three lectures, 5 Oct. Th. 12–1, 30 Oct.
 Mon 2–3. Nov. 6, M. 2–3)

DR D. TUCKER AND OTHERS
 Public Health, Food Safety, Zoonotic and Notifiable
 Disease. (Three lectures, 6 Nov. M. 3–4, 9 Nov. Th.
 9–10, 20 Nov. M. 2–3)

MR J. HOULTON
 Veterinary Communication (One lecture 20 Nov. 3–4)

MS D. GRANT
 The Pharmaceutical Industry and the Veterinary
 Profession (One lecture Nov. 30 Th. 12–1 p.m.)
Department of Veterinary Medicine

DR J. WOOD
 The Veterinary Profession and the International Control
 of Infectious Disease (One lecture Nov. 30 Th. 2–3)
Department of Veterinary Medicine

Practicals

29 Nov. W. 2–5 p.m. *Department of Veterinary Medicine*

DR SILVERMAN
 Communication skills and the Veterinary
 Profession (One lecture 17 Jan. W. 2–3
 p.m.)

Practicals

17 Jan. 3–5 *Biffen Lecture Theatre*
 18 Jan. 2–4 *Department of Veterinary Medicine*
 23 Feb. 9–1 p.m. *Department Veterinary
 Medicine*