

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1B

MICHAELMAS 2010

LENT 2011

EASTER 2011

BIOLOGY OF DISEASE

Course Organiser: Dr I. B. Kingston (email: ibk1000@cam.ac.uk)
 Course Website: www.path.cam.ac.uk/ugrad/part1/

All lectures take place in *Chemical Laboratory Lecture Theatre 1* at M. W. F. 12, unless otherwise stated

PROF. A. H. WYLLIE

Cell Injury. (One lecture, 8 Oct.)

PROF. J. TROWSDALE

Innate Immune System; Acute Inflammation: Defence Mechanisms; Healing and Chronic Inflammation. (Three lectures, beginning 11 Oct.)

DR A. KELLY

The Adaptive Immune System; B Cells and Antibodies; The Major Histocompatibility Complex; T Cells. (Four lectures, beginning 18 Oct.)

PROF. J. TROWSDALE

Tolerance; Autoimmunity; Hypersensitivity; Transplantation. (Four lectures, beginning 27 Oct.)

PROF. A. C. MINSON

Nature of Viruses; Viral Multiplication in the Host Cell; Responses to Viral Infection; Acute and Chronic Infection; Epidemiology of Viral Infection; Combating Viral Infection; Prion Diseases. (Seven lectures, beginning 5 Nov.)

DR I. B. KINGSTON

Introduction to Parasitic Diseases; Key Examples of Parasitic Diseases: Malaria; Key Examples of Parasitic Diseases: Schistosomiasis. (Three lectures, beginning 22 Nov.)

DR A. CARMICHAEL

Fungi (Two lectures, beginning 29 Nov.)

Practical Work. *Department of Pathology.* Tu. am and pm, W. am, Th. am and pm, F. am and pm.

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 19 Jan.)

PROF. A. WYLLIE

Vascular reactions to injury; Atherosclerosis; Ischemia, infarction and their results. (Three lectures, beginning 4 Feb.)

DR M. ARENDS

The Regulation of Tissue Growth and Organisation; Clinical Pathology of Tumours; Biology of Tumours; Genetic Basis of Neoplasia; Causes of Cancer. (Five lectures, beginning 11 Feb.)

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 web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

Lectures. *Biffen Lecture Theatre unless otherwise stated*

DR J. H. BRACKENBURY AND DR D. R. J. BAINBRIDGE

Vertebrate Structure and Function. (Eight Lectures, M. 10 (21 Feb.); W. 9 (23 Feb. *Lecture Theatre to be confirmed*); Th. 10 (3 Mar. *Plant Sciences Lecture Theatre*); W. 9 (9 Mar. *Lecture Theatre to be confirmed*); W. 12 (9 Mar.); F. 9 (11 Mar. *Lecture Theatre to be confirmed*); Tu. 11 (15 Mar.); W. 9 (16 Mar. *Lecture Theatre to be confirmed*))

DR D. R. J. BAINBRIDGE, DR D. R. J. CHIVERS AND DR J. H. BRACKENBURY

The Mammalian Head. (Seven lectures, W. 12 (23 Feb.); Tu. 10 (1 Mar. *Plant Sciences Lecture Theatre*); W. 9 (2 Mar. *Lecture Theatre to be confirmed*); Tu. 10 (8 Mar. *Plant Sciences Lecture Theatre*); Th. 10 (10 Mar. *Plant Sciences Lecture Theatre*); M. 12 (14 Mar.); Tu. 12 (15 Mar.)

Practical Work

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

Lectures. *Biffen Lecture Theatre unless otherwise stated*

DR J. H. BRACKENBURY AND MRS J. PEARSON

Vertebrate Structure and Function (continued). (Four lectures, W. 9 (4 May *Lecture Theatre to be confirmed*); W. 12 (4 May); Th. 9 (5 May); F. 9 (6 May))

DR D. R. J. BAINBRIDGE AND DR D. R. J. CHIVERS

The Mammalian Head (continued). (Four lectures, W. 9 (27 Apr.); W. 12 (27 Apr.); Th. 12 (28 Apr.); W. 12 (11 May))

Practical Work

The same continued.

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

MICHAELMAS 2010

LENT 2011

EASTER 2011

HUMAN REPRODUCTION
(Medical Students)

Course Organiser Prof. G. Burton (email: gjb2@cam.ac.uk)
 Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>

All lectures take place in the *Anatomy Lecture Theatre* on M. Tu. Th. 9 W. 2, unless otherwise stated.

PROF. W. H. COLLEDGE

Endocrinology. (Three lectures, M. 11 (8, 15, 22 Nov.)
Chemistry Lecture Theatre

REVD J. CADDICK

Principles of Medical Ethics. (Five lectures, 19,
 20, 25, 26, 27 Jan.)

TO BE CONFIRMED

Sexual Differentiation. (One lecture, 1 Feb.)
 Reproductive Hormones: the Sexual
 Messengers (One lecture, 2 Feb.)
 Gametogenesis and Ovarian Cycles. (Three
 lectures, 3, 8, 10 Feb.)

PROF. G. BURTON

Coition, Fertilization and Blastocyst
 Development. (Three lectures, Th. 4–5 10
 Feb. and 15, 16 Feb.)
 Placentation (Two lectures, 17, 22 Feb.)

DR R. BARNES

Maternal Adaptations to Pregnancy and
 Placental Physiology. (One lecture, 24
 Feb.)

Preparation for Birth and Delivery. (Two
 lectures, 1, 3 Mar.)

Lactation and Neonatal Physiology (Two
 lectures, 7, 8 Mar.)

TO BE CONFIRMED

Reproduction, Demography and Population
 Health. (Three lectures, 10, 14, 15 Mar.)

DR E. GKRAKIA-KLOTSAS

HIV and Aids (One lecture, F. 11 (18 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/teaching/tea_mvst1b_moda.html

Lectures. M. 10, Tu. Th. 12 *Chemistry Main Lecture
 Theatre*

PROF. J. M. EDWARDSON

Drug Interactions with Receptors and Ion Channels.
 (Five lectures, 12–21 Oct.)

PROF. J. M. EDWARDSON

Pharmacology of Peripheral Neural Transmission. (Five
 lectures, 25–28 Oct., 1, 2 Nov.)

DR C. R. HILEY

Cardiovascular and Renal Pharmacology. (Six lectures,
 4–16 Nov.)

Medical Students

Lectures. M. 10, Tu. Th. 12 *Chemistry Main Lecture
 Theatre*

DR C. R. HILEY

Human Aspects of Cardiovascular and Renal
 Pharmacology (Four lectures, 18–25 Nov.)

Veterinary Students

Lectures. M. 10, Tu. Th. 12 *Biffen Lecture Theatre*,

DR J. S. GIBSON

Anthelmintics (Two lectures, 18, 22 Nov.)

DR J. BREARLEY

Aspects of Veterinary Pharmacology (Two lectures, 23,
 25 Nov.)

Practical Work. M. 2–5 or F. 2–5. (Weeks 2–7)

Students are allocated five out of the six weeks. A
 detailed timetable will be posted in the
 Department, on CamTools and on the
 Pharmacology web site.

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,
 20–27 Jan., 1 Feb.)

DR T-P FAN

Pharmacology of Inflammation and
 Immunosuppression. (Five lectures, 3–10
 Feb. 15 Feb.)

DR H. W. VAN VEEN

Chemotherapy. (Five lectures, 17–24 Feb., 1
 Mar.)

Practical Work.

The same continued. (Weeks 3–7)

Students are allocated to one of the two pairs
 of practicals. A detailed timetable will be
 posted in the Department, on CamTools
 and on the Pharmacology web site.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2010

LENT 2011

EASTER 2011

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 web site at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>All lectures take place in the *Babbage Lecture Theatre* at M. W. F. 9, unless otherwise stated

DR S. JONES

Introduction to CNS. (One lecture, Th. 4–5 7 Oct.)

DR H. R. MATTHEWS

Biology of neurons. (Two lectures, 8, 11 Oct.)

DR D. R. J. BAINBRIDGE

CNS Morphology. (One lecture, Tu. 9–10 12 Oct. *Biffen Lecture Theatre*)

DR J. M. HOLMES

CNS Overview. (One lecture, Th. 9–10 14 Oct. *Biffen Lecture Theatre*)

DR I. M. WINTER

Somatic Sensation and Pain. (Three lectures, 15, 18, 20 Oct.)

DR D. R. J. BAINBRIDGE

CNS Environment. (One lecture, Tu. 9–10 19 Oct. *Biffen Lecture Theatre*)

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (Two lectures, 22, 25 Oct.)

DR S. A. EDGLEY

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

DR D. R. J. BAINBRIDGE

Cranial Nerves. (Two lectures, Tu. 9–10 26 Oct. and Tu. 9–10 2 Nov. *Biffen Lecture Theatre*)

DR H. R. MATTHEWS

The Visual System. (Four lectures, 8, 10, 12, 15 Nov.)

DR D. R. J. BAINBRIDGE

Eye: Neurological Aspects. (One lecture, Tu. 9–10 9 Nov. *Biffen Lecture Theatre*)

DR D. R. J. BAINBRIDGE

Ear: Neurological Aspects. (One lecture, Tu. 9–10 16 Nov. *Biffen Lecture Theatre*)

DR H. R. MATTHEWS

Olfaction and Taste. (One lecture, 17 Nov.)

PROF. A. C. CRAWFORD

Hearing. (Two lectures, 19, 22 Nov.)

PROF. R. J. M. FRANKLIN

Veterinary CNS. (Two lectures, Th. 9–11 (25 Nov.) *Plant Sciences Lecture Theatre*)

PROF. A. C. ROBERTS

Arousal, Homeostasis and Motivation. (Three lectures, W. 9–10 (24 Nov.), W. 2–3 (24 Nov.), 26 Nov.)

DR G. M. W. COOK

Development of the Nervous System. (One lecture, 29 Nov.)

PROF. R. J. KEYNES

Regeneration of the Nervous System. (One lecture, 1 Dec.)

Practicals

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

DR G. PEARCE

Animal Behaviour. (Seven lectures, 19, 21, 24, 26, 28, 31 Jan., 4 Feb. *Plant Sciences Lecture Theatre*)

PROF. P. A. MCNAUGHTON

Neuropharmacology. (Three lectures, 7, 9, 11 Feb. *Plant Sciences Lecture Theatre*)**Practicals**

The same continued.

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

MICHAELMAS 2010

LENT 2011

EASTER 2011

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 web site at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>

All lectures take place in the *Babbage Lecture Theatre* M. W. F. 9, unless otherwise stated

DR S. JONES
Introduction to CNS. (One lecture, Th. 9–10 7 Oct.)

DR H. R. MATTHEWS
Biology of Neurons. (Two lectures, 8, 11 Oct.)

DR S. JONES
Blood Brain Barrier, CSF and Cerebral Blood Flow.
(One lecture, 13 Oct.)

DR I. M. WINTER
Somatic Sensation and Pain. (Three lectures, 15, 18, 20 Oct.)

PROF. P. A. MCNAUGHTON
Pharmacology of Pain. (Two lectures, 22, 25 Oct.)

DR S. A. EDGLEY
The Motor System. (Five lectures, 27, 29, Oct., 1, 3, 5 Nov.)

DR H. R. MATTHEWS
The Visual System. (Four lectures, 8, 10, 12, 15 Nov.)

DR H. R. MATTHEWS
Olfaction and Taste. (One lecture, 17 Nov.)

PROF. A. C. CRAWFORD
Hearing. (Two lectures, 19, 22 Nov.)

PROF. A. C. ROBERTS
Arousal, Homeostasis and Motivation. (Three lectures,
W. 9–10 (24 Nov.), W. 2–3 (24 Nov.), (26 Nov.)

DR G. M. W. COOK
Development of the Nervous System. (One lecture, 29 Nov.)

PROF. R. J. KEYNES
Regeneration of the Nervous System. (One lecture, 1 Dec.)

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, 19, 21, 24 Jan.)

DR L. CLARK
Neurobiology of Mental Illness II. (Three lectures, 26, 28, 31 Jan.)

DR L. SAKSIDA
Psychology of Cognition and Memory. (Two lectures, 2, 4 Feb.)

DR A. C. ROBERTS
Neurobiology of Learning, Memory and Cognition. (Five lectures, 7, 9, 11, 14, 16 Feb.)

DR P. J. RICHARDSON
Pharmacology and Drug Treatment of CNS Disorders. (Six lectures, 18, 21, 23, 28 Feb., 2, 4 Mar.)

Clinical Demonstration

25 Feb., 10–12 *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 web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

PROF. W. H. COLLEDGE
Endocrinology. (Three lectures, 8, 15, 22 Nov.) *Chemistry Lecture Theatre*

DR W. H. COLLEDGE
Reproduction. (Six lectures Th. 9–10 (20 Jan.), Sat. 9–10 (22 Jan.), Tu. 9–10 (25 Jan.), Th. 9–10 (27 Jan.), Sat. 9–10 (29 Jan.), Tu. 9–10 (1 Feb.) *Physiology Lecture Theatre 1*

DR S. K. L. ELLINGTON
Development. (Two lectures Th. 9–10 (3 Feb.), Sat. 9–10 (5 Feb.) *Physiology Lecture Theatre 1*

DR D. R. J. BAINBRIDGE AND DR R. J. BARNES
Biology of Pregnancy. (Four lectures, Tu. 9–10 (8 Feb.), Th. 9–10 (10 Feb.), Sat. 9–10 (12 Feb.), Tu. 9–10 (15 Feb.) *Physiology Lecture Theatre 1*

DR D. R. J. BAINBRIDGE
Birth, Lactation and the Neonate. (Three lectures, Th. 9–10 (17 Feb.), Sat. 9–10 (19 Feb.), Tu. 9–10 (22 Feb.) *Physiology Lecture Theatre 1*

DR J. GIBSON, DR J. HOLMES AND DR D. R. J. BAINBRIDGE
Comparative Aspects of Reproduction. (Nine lectures F. 10 (21 Jan. *Biffen Lecture Theatre*), F. 10. (28 Jan. *Biffen Lecture Theatre*), M. 10 (31 Jan. *Biffen Lecture Theatre*), Tu. 10 (15 Feb. *Plant Sciences Theatre*), W. 9 (16 Feb. *Main Physiology Lecture Theatre*), Th. 9 (24 Feb. *Biffen Lecture Theatre*), Tu. 9 (1 Mar. *Biffen Lecture Theatre*), Th. 9 (3 Mar. *Biffen Lecture Theatre*), Tu. 9 (8 Mar. *Biffen Lecture Theatre*)

Practical Work

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

Practical Work

The same continued. (M. 2–4, W. 10–12)

Practical Work

The same continued. (F. 10–12)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2010

LENT 2011

EASTER 2011

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 28 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. 157).

List 1

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

CLINICAL AND APPLIED PHYSIOLOGY

Lectures in Easter Term on Tu, Thu, and Sat.

Course Organiser: Dr R. J. Barnes (email: rjb40)

EXPERIMENTAL PSYCHOLOGY

Course Organiser: Dr J. Simons (email: jss30)

INFECTIOUS DISEASES

Course Organiser: Dr I. B. Kingston (email: ibk1000)

JANUS DRUGS: USE AND ABUSE

Course Organiser: Prof. A. J. Marten (email: ajm41)

List 2

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

DEVELOPMENTAL BIOLOGY

Course Organiser: Prof. R. Keynes (email: rjk10)

MAN, MOLECULES AND THE ENVIRONMENT

Course Organiser: Dr B. Billups (email: bjb41) TBC

SENSORIMOTOR NEUROBIOLOGY

Course Organiser: Dr I. Winter (email: imw1001)

TUMOUR BIOLOGY

Course Organiser: Dr P. P. D'Auno (email: ppd21)

**PREPARING FOR PATIENTS B (Second Year Strand)
(Medical students: SECOND M.B. EXAMINATION)**

Course Organiser: Dr J. Silverman (email: pfp@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>

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 M. WILLIAMS AND DR J. SILVERMAN

Group 1

Briefing. 27 Sep., 10–12 *Pathology Lecture Theatre*

Review. 30 Sep., or 1 Oct., 9–10.30, 10.30–12.00, or 1.30–3.00, 3.00–4.30 *Department of Pathology Seminar Room*

Group 2

Briefing. 2 Dec., 10–12 *Anatomy Lecture Theatre*

Review. 7 or 8 Dec., 9–10.30, 10.30–12.00, or 1.30–3.00, 3.00–4.30. 7 Dec. *Department of Pathology, Greaves Room*, 8 Dec. *Department of Anatomy, Room 78*

Group 3

Briefing. 12 Jan., 10–12 *Pathology Lecture Theatre*

Review. 17 or 18 Jan., 9–10.30, 10.30–12.00, or 1.30–3.00, 3.00–4.30 *Department of Pathology Seminar Room*

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

MICHAELMAS 2010

LENT 2011

EASTER 2011

PREPARING FOR PATIENTS C (SECOND YEAR STRAND)
(Medical students: SECOND M.B. EXAMINATION)

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

<p>MS K. ENRIGHT AND DR J. SILVERMAN Briefing. 10 Mar., 3–5.00. <i>Anatomy Lecture Theatre</i></p>
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PREPARING FOR PATIENTS D (THIRD YEAR STRAND)
(Medical students: SECOND M.B. 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.

<p>MRS M. WILLIAMS AND DR J. SILVERMAN Briefing. 6 Oct. 4–5.30 <i>Anatomy Lecture Theatre</i> Review. 17 or 18 or 21 Mar., 9.30–11, 11.30–1or 2–3.30 <i>School of Clinical Medicine Seminar Room</i></p>

Students will be notified which session to attend.

PREPARING FOR THE VETERINARY PROFESSION (Second Year Strand)
(Veterinary Students: SECOND VET MB EXAMINATION)Course Organiser: Dr J. C. Brearley (email: jcb78@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 will take place in the *Biffen Lecture Theatre, New Museums Site*, unless otherwise stated

<p>PROF. R. FRANKLIN AND DR D. TUCKER Veterinary History and Animal/Human Health Interface. (Two lectures, W. 2–3. & 3–4 6 Oct.) <i>Department of Veterinary Medicine</i></p>

<p>DR D. WILLIAMS Veterinary Ethics. (Three lectures, Th. 12–1 7 Oct., M. 2–3 1 and 8 Nov.)</p>
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<p>DR D. TUCKER AND OTHERS Public Health, Food Safety, Zoonotic and Notifiable Disease. (Three lectures, M. 3–4 8 Nov., Th. 9–10 11 Nov., M. 2–3 22 Nov.)</p>
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<p>MRS C. LATHAM Veterinary Communication (One lecture M. 3–4 22 Nov.)</p>

<p>DR P. DOBSON The Pharmaceutical Industry and the Veterinary Profession (One lecture Th. 12–1 2 Dec.) <i>Department of Veterinary Medicine</i></p>
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<p>PROF. J. WOOD The Veterinary Profession and the International Control of Infectious Disease (One lecture Th. 2–3 2 Dec.) <i>Department of Veterinary Medicine</i></p>
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PracticalsW. 1 Dec. 2–5pm *Department of Veterinary Medicine*

<p>DR J. SILVERMAN Communication skills and the Veterinary Profession (One lecture W. 2–3 19 Jan.)</p>

Practicals

<p>W. 3–5 19 Jan. <i>Biffen Lecture Theatre</i> Th. 2–4 20 Jan. <i>Department of Veterinary Medicine</i> F. 9–1 25 Feb. <i>Department of Veterinary Medicine</i></p>
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