

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART Ib

MICHAELMAS 2008

LENT 2009

EASTER 2009

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, 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. (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 I. B. KINGSTON

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 (Two lectures, beginning 1 Dec.)

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

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 14 Jan.)

Note the early start of this course.

PROF. A. WYLLIE

Vascular reactions to injury; Atherosclerosis; Ischemia, infarction and their results. (Three lectures, beginning 30 Jan.)

T.B.A.

The Regulation of Tissue Growth and Organisation; Clinical Pathology of Tumours; Biology of Tumours; Genetic Basis of Neoplasia; Causes of Cancer. (Five lectures, beginning 6 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 Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures.** *Arts School Room A unless otherwise stated*DR J. H. BRACKENBURY AND PROF. W. A. HARRIS
Vertebrate Structure and Function. (Eight Lectures, M. 9 (16 Feb); W. 9 (18 Feb.); Th. 10 (26 Feb.); W. 9 (4 Mar.); W. 12 (4 Mar. *Biffen Lecture Theatre*); F. 9 (6 Mar.); Tu. 10 (10 Mar.); W. 9 (11 Mar.))

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

The Mammalian Head. (Seven lectures, W. 12 (18 Feb. *Biffen Lecture Theatre*); Tu. 10 (24 Feb.); W. 9 (25 Feb.); Tu. 10 (3 Mar.); Th. 10 (5 Mar.); M. 9 (9 Mar.); Tu. 9 (10 Mar. *Arts School Room B*))**Practical Work**

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

Lectures. *Arts School Room A unless otherwise stated*DR J. H. BRACKENBURY AND MRS J. PEARSON
Vertebrate Structure and Function (continued). (Five lectures, W. 9 (29 Apr.); Th. 9 (30 Apr. *Biffen Lecture Theatre*); Tu. 9 (5 May *Arts School Room B*); W. 9 (6 May); F. 9 (8 May))DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS
The Mammalian Head (continued). (Three lectures, W. 9 (22 Apr. *Anatomy Lecture Theatre*); Th. 9 (23 Apr. *Anatomy Lecture Theatre*); F. 9 (1 May *Biffen Lecture Theatre*))**Practical Work**

The same continued.

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

MICHAELMAS 2008

LENT 2009

EASTER 2009

HUMAN REPRODUCTION

(Medical Students)

Course Organiser: Dr P. Schofield (email: ps@mole.bio.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 S. ELLINGTON

Endocrinology. (Three lectures, M.1 1 (10, 17, 24 Nov.))
Chemistry Lecture Theatre

REV D. J. CADDICK

Principles of Medical Ethics. (Five lectures, 14, 15, 20, 21, 22 Jan.)

DR P. SCHOFIELD

Sexual Differentiation. (One lecture, 27 Jan.)

Reproductive Hormones: the Sexual

Messengers (One lecture, 28 Jan.)

Gametogenesis and Ovarian Cycles. (Three lectures, 29 Jan, 3, 4 Feb.)

PROF. M. H. JOHNSON

Coition, Fertilization and Blastocyst

Development. (Three lectures, 5, 10, 11 Feb.)

Placentation (Two lectures, 12, 17 Feb.)

DR R. BARNES

Maternal Adaptations to Pregnancy and

Placental Physiology. (One lecture, 19 Feb.)

Preparation for Birth and Delivery. (Two lectures, 24, 26 Feb.)

Lactation and Neonatal Physiology (Two lectures, 2, 3 Mar.)

DR J. POWLES

Reproduction, Demography and Population

Health. (Three lectures, 5, 9, 10 Mar.)

DR E. GKRIANIA-KLOTSAS

HIV and Aids (One lecture, F. 11 (13 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 Website at http://www.phar.cam.ac.uk/undergrads/under_mvst1b_moda.html**Lectures.** M. 10, Tu, Th. 12 *Chemistry Main Lecture Theatre*

DR C. R. HILEY

Drug Interactions with Receptors and Ion Channels. (Five lectures, 14–23 Oct.)

DR C. R. HILEY

Pharmacology of Peripheral Neural Transmission. (Five lectures, 27 Oct.–4 Nov.)

DR R. M. HENDERSON

Cardiovascular and Renal Pharmacology. (Six lectures, 6–18 Nov.)

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

DR R. M. HENDERSON

Human Aspects of Cardiovascular and Renal Pharmacology (Four lectures, 20–27 Nov.)

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

DR J. S. GIBSON

Anthelmintics (Two lectures, 20, 24 Nov.)

DR J. BREARLEY

Aspects of Veterinary Pharmacology (Two lectures, 25, 27 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 website.

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, 15–22, 27 Jan.)

DR M. A. BARRAND

Pharmacology of Inflammation and

Immunosuppression. (Five lectures, 29 Jan.–5 Feb., 10 Feb.)

DR H. W. VAN VEEN

Chemotherapy. (Five lectures, 12–19, 24 Feb.)

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 website.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

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, 9 Oct.)

DR H. R. MATTHEWS

Biology of neurons. (Two lectures, 10, 13 Oct.)

DR D. R. J. BAINBRIDGE

CNS Morphology. (One lecture, 14 Oct.) *Physiology
Lecture Theatre 3*

DR D. R. J. BAINBRIDGE

CNS Overview. (One lecture, 15 Oct.) *Physiology Lecture
Theatre 3*

DR I. M. WINTER

Somatic Sensation and Pain. (Three lectures, 17, 20, 22
Oct.)

DR D. R. J. BAINBRIDGE

CNS Environment. (One lecture, 21 Oct.) *Physiological
Lecture Theatre 3*

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (One lecture, 24 Oct.)

DR S. A. EDGLEY

The Motor System. (Five lectures, 27, 29, 31, Oct., 3, 5
Nov.)

DR D. R. J. BAINBRIDGE

Cranial Nerves. (Two lectures, 28 Oct., 4 Nov.) *Physiology
Lecture Theatre 3*

PROF. H. R. MATTHEWS

The Visual System. (4 lectures, 7, 10, 12, 14 Nov.)

DR D. R. J. BAINBRIDGE

Eye: Neurological Aspects. (One lecture, 11 Nov.)
Physiology Lecture Theatre 3

DR H. R. MATTHEWS

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

DR D. R. J. BAINBRIDGE

Ear: Neurological Aspects. (One lecture, 18 Nov.)
Physiology Lecture Theatre 3

PROF. A. C. CRAWFORD

Hearing. (Two lectures, 19, 21 Nov.)

PROF. R. J. M. FRANKLIN

Veterinary CNS. (Two lectures, Th. 9–11, 27 Nov., 2 Dec.)
Physiology Lecture Theatre 3

DR A. C. ROBERTS

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

DR J. H. ROGERS

Development, Plasticity and Repair of the Nervous
System. (Two lectures, 1, 3 Dec.)**Practicals**Practical classes in Veterinary Neuroanatomy and Special
Senses and in Neurophysiology and Animal
Behaviour as indicated in the online timetables.

PROF. D. BROOME

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

PROF. P. A. MCNAUGHTON

Neuropharmacology. (Three lectures, 30 Jan., 2,
4 Feb.)**Practicals**

The same continued.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

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, 9 Oct.)

DR H. R. MATTHEWS
Biology of Neurons. (Two lectures, 10, 13 Oct.)

DR S. JONES
Blood Brain Barrier, CSF and Cerebral Blood Flow. (One lecture, 15 Oct.)

DR I. M. WINTER
Somatic Sensation and Pain. (Three lectures, 17, 20, 22 Oct.)

PROF. P. A. MCNAUGHTON
Pharmacology of Pain. (One lecture, 24 Oct.)

DR S. A. EDGLEY
The Motor System. (Five lectures, 27, 29, 31 Oct., 3, 5 Nov.)

DR H. R. MATTHEWS
The Visual System. (Four lectures, 7, 10, 12, 14 Nov.)

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

PROF. A. C. CRAWFORD
Hearing. (Two lectures, 19, 21 Nov.)

DR A. C. ROBERTS
Arousal, Homeostasis and Motivation. (Three lectures, 24, 26, 28 Nov.)

DR J. ROGERS
Development, Plasticity and Repair of the Nervous System. (Two lectures, 1, 3 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, 14, 16, 19 Jan.)

DR L. CLARK
Neurobiology of Mental Illness II. (Three lectures, 21, 23, 26 Jan.)

DR J. SIMONS
Psychology of Cognition and Memory. (Two lectures, 28, 30 Jan.)

DR A. C. ROBERTS
Neurobiology of Learning, Memory and Cognition. (Five lectures, 2, 4, 6, 9, 11 Feb.)

DR P. J. RICHARDSON
Pharmacology and Drug Treatment of CNS Disorders. (Six lectures, 13, 16, 18, 23, 25, 27 Feb.)

Clinical Demonstration20 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, 17, 24 Nov., 1 Dec.)
Chemistry Lecture Theatre

DR R. J. BARNES
Reproduction. (Six lectures Th. 9–10 (15 Jan), Sat. 9–10 (17 Jan), T. 9–10 (20 Jan), Th. 9–10 (22 Jan), Sat. 9–10 (24 Jan), T. 9–10 (27 Jan). *Physiology Lecture Theatre 1*)

DR S. K. L. ELLINGTON
Development. (Two lectures Th. 9–10 (29 Jan), Sat. 9–10 (31 Jan.) *Physiology Lecture Theatre 1*)

DR D. R. J. BAINBRIDGE, DR A. FOWDEN
Biology of Pregnancy. (Four lectures, T. 9–10 (3 Feb.), Th. 9–10 (5 Feb), Sat. 9–10 (7 Feb), T. 9–10 (10 Feb.) *Physiology Lecture Theatre 1*)

DR D. R. J. BAINBRIDGE AND DR A. FOWDEN
Birth, Lactation and the Neonate. (Three lectures, Th. 9–10 (12 Feb.), Sat. 9–10 (14 Feb.), T. 9–10 (17 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 (16 Jan. *Physiology Lecture Theatre 3*), F. 10. (23 Jan. *Physiology Lecture Theatre 3*), Tu. 10 (10 Feb. *Main Physiology Lecture Theatre*), W. 9 (11 Feb. *Main Physiology Lecture Theatre*), Th. 9 (19 Feb. *Arts School Room B*), Tu. 9 (24 Feb. *Arts School Room B*), Th. 9 (26 Feb. *Arts School Room B*), Th. 9 (5 Mar. *Arts School Room B*))

Practical Work

Anatomy and physiology of the mammalian reproductive system. (M. 2–4, W. 10–12)

Practical Work

The same continued. (F. 10–12)

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MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

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 23 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, 150).

List 1

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

CLINICAL AND APPLIED PHYSIOLOGY

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

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

EXPERIMENTAL PSYCHOLOGY

Course Organiser: Dr J. Simons (email: jss30@cam.ac.uk)

INFECTIOUS DISEASES

Course Organiser: Dr I. B. Kingston (email: ibk1000@cam.ac.uk)

JANUS DRUGS: USE AND ABUSE

Course Organiser: Dr 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 BIOLOGY

Course Organiser: Dr N. Brown (email: nb117@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. Winter (email: imw1001@cam.ac.uk)

TUMOUR BIOLOGY

Course Organiser: Dr P. A. W. Edwards (email: pawel@cam.ac.uk)

REPARING 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)

(Medical students: SECOND M.B. EXAMINATION)

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>

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. 29 Sep., 10–12 Pathology Lecture Theatre

Review. 2 Oct., or 3 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. 4 Dec., 10–12 Physiology Lecture Theatre

Review. 9 or 10 Dec., 9–10.30, 10.30–12.00, or
1.30–3.00, 3.00–4.30 Department of Physiology, Room
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Group 3

Briefing. 7 Jan., 10–12 Pathology Lecture Theatre

Review. 12 or 13 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 2008

LENT 2009

EASTER 2009

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>MRS J. GRIFFITHS AND DR J. SILVERMAN Briefing, 5 Mar., 3–4.30. <i>Physiology Lecture Theatre</i></p>

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 J. GRIFFITHS AND DR J. SILVERMAN Briefing, 8 Oct. 4–5.30 <i>Physiology Lecture Theatre</i> Review, 12 or 13 Mar., 9.30–11, 11.30–1, 2–3.30, 16 Mar., 9.30–11, 11.30–1 School of Clinical Medicine Seminar Room</p>

Students will be notified which session to attend.

PREPARING FOR THE VETERINARY PROFESSION (Second Year Strand)

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

Course Organiser: Dr J. Brearley (email: jcb78@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.

<p>PROF R. FRANKLIN AND DR D. TUCKER Veterinary History and Animal/Human Health Interface. (Two lectures, 8 Oct. W. 2–3. & 3–4) <i>Department of Veterinary Medicine</i></p>
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<p>DR D. WILLIAMS Veterinary Ethics. (Three lectures, Th. 9 Oct. 12–1, M. 3 and 10 Nov., 2–3)</p>

<p>DR D. TUCKER AND OTHERS Public Health, Food Safety, Zoonotic and Notifiable Disease. (Three lectures, M. 10 Nov. 3–4, Th 13 Nov. 9–10, M. 24 Nov. 2–3)</p>
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<p>MR J. HOULTON Veterinary Communication (one lecture M. 24 Nov. 3–4)</p>

<p>MR B. LACEY The Pharmaceutical Industry and the Veterinary Profession (one lecture Th. 4 Dec. 12–1 pm Dept of Veterinary Medicine)</p>
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<p>DR J. WOOD The Veterinary Profession and the International Control of Infectious Disease (one lecture Th. 4 Dec. 2–3 Dept of Veterinary Medicine)</p>

Practicals
 W. 3 Dec. 2–5pm *Department of Veterinary Medicine*

<p>DR J. SILVERMAN Communication skills and the Veterinary Profession (one lecture W. 14 Jan. 2–3 pm)</p>

Practicals
 W. 14 Jan. 3–5 *Biffen Lecture Theatre*
 Th. 15 Jan. 2–4 *Department of Veterinary Medicine*
 20 Feb. 9–1 pm *Department of Veterinary Medicine*