

## MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1B

MICHAELMAS 2005

LENT 2006

EASTER 2006

### BIOLOGY OF DISEASE

Course Organiser: Dr I. B. Kingston (email: [ibk1000@cam.ac.uk](mailto: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. A. H. WYLLIE

Cell Injury. (One lecture, beginning 7 Oct.)

DR A. MOFFETT

Innate Immune System; Acute Inflammation: Defence Mechanisms; Healing and Chronic Inflammation. (Three lectures, beginning 10 Oct.)

DR A. KELLY

The Adaptive Immune System; B Cells and Antibodies; The Major Histocompatibility Complex; T Cells. (Four lectures, beginning 17 Oct.)

PROF. J. TROWSDALE

Tolerance; Autoimmunity; Hypersensitivity; Transplantation (Four lectures, beginning 26 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 4 Nov.)

DR I. B. KINGSTON

Introduction to Parasitic Diseases; Key Examples of Parasitic Diseases: Malaria; Key Examples of Parasitic Diseases: Schistosomiasis. (Three lectures, beginning 21 Nov.)

DR A. CARMICHAEL

Fungi. (One lecture, 28 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 18 Jan.)

PROF. A. WYLLIE

Cardiovascular Pathology 1; Cardiovascular Pathology 2; Cardiovascular Pathology 3. (Three lectures, beginning 3 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 10 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. 11 May a.m. and p.m., F. 12 May a.m. and p.m.

**Microbiology**

W. 17 May a.m. and p.m., F. 19 May a.m. and p.m.

### COMPARATIVE VERTEBRATE BIOLOGY

(Veterinary Students)

Course Organiser: Dr J. H. Brackenbury (email: [jhb1000@hermes.cam.ac.uk](mailto: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. (Six lectures, 28 Feb., 2, 8, 10, 14, 15, Mar.)  
M. 12, Tu. and Th. 10, W. 12, *Biffen Lecture Theatre*; F. 9, *Arts School Room A*.

DR D. R. J. BAINBRIDGE, DR J. H. BRACKENBURY AND DR D. J. CHIVERS  
The Mammalian Head. (Six lectures, 3, 6, 7, 9, 13, 16 Mar) M. 12, Tu. and Th. 10, W. 12, *Biffen Lecture Theatre*; F. 9, *Arts School Room A*.

**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). (Seven lectures, 26, 28 Apr., 5, 9, 12, 16, 19 May) Tu. Th. F. 9, *Biffen Lecture Theatre*; W. F. 9 *Arts School Room A*.

DR D. R. J. BAINBRIDGE  
The Mammalian Head (continued). (Four lectures, 2, 4, 11, 18 May) Tu. Th. F. 9, *Biffen Lecture Theatre*; W. F. 9 *Arts School Room A*.

**Practical Work**

The same continued.

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

MICHAELMAS 2005

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EASTER 2006

**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* at M. Tu. Th. S. 9, W. 2 unless otherwise stated.

DR W. H. COLLEDGE

Endocrinology. (Three lectures, 14, 21, 28 Nov.) M. 11  
*Chemistry Lecture Theatre* at

DR P. SCHOFIELD

Sexual Differentiation. (One lecture, 18 Jan.)  
Reproductive Hormones: the Sexual  
Messengers. (One lecture, 19 Jan.)  
Gametogenesis and Ovarian Cycles. (Three  
lectures, 24, 25, Jan.)

PROF. G. BURTON

Coition, Fertilization and Blastocyst  
Development. (Three lectures, 31 Jan., 1,  
2 Feb.)  
Placentation. (One lecture, 7 Feb.)

DR R. J. BARNES

Maternal Adaptations to Pregnancy and  
Placental Physiology. (Two lectures, 8, 9  
Feb.)Preparation for Birth and Delivery. (Two  
lectures, 14, 15 Feb.)Lactation and Neonatal Physiology. (Two  
lectures, 16, 21 Feb.)

REVD. J. CADDICK

Principles of Medical Ethics. (Five lectures, 23,  
28 Feb., 2, 6, 7 Mar.)

DR J. POWLES

Reproduction, Demography and Population  
Health. (Three lectures, 9, 13, 14 Mar.)

DR A. N. OTHER

HIV &amp; AIDS. (Two lectures, T.B.C., 16 Mar.)

**MECHANISMS OF DRUG ACTION**

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

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbio/mvst.html>**Lectures.** M. 10, Tu. Th. 12 *Chemistry Main Lecture  
Theatre*

DR J. M. EDWARDSON

Drug Interactions with Receptors and Ion Channels.  
(Five lectures, 11–20 Oct.)

DR P. THORN

Pharmacology of Inflammation and Immunosuppression.  
(Five lectures, 24 Oct.–1 Nov.)

DR R. M. HENDERSON

Cardiovascular and Renal Pharmacology. (Eight lectures,  
3–21 Nov.)

DR J. S. GIBSON

Anthelmintics. (Two lectures, 22, 24 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.** Tu. Th., 12 *Chemistry Main Lecture  
Theatre*; M. 11 *Babbage Lecture Theatre*

DR S. B. HLADKY

Pharmacokinetics, Drug Metabolism, and  
General Anaesthetics. (Five lectures,  
19–26, 31 Jan.)

PROF. D. M. F. COOPER

Pharmacology of Peripheral Neural  
Transmission. (Five lectures, 2–9, 14 Feb.)

DR H. W. VANVEEN

Chemotherapy. (Five lectures, 16–23, 28 Feb.)

**Practical Work.**

The same continued. (Weeks 1–5)

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

MICHAELMAS 2005

LENT 2006

EASTER 2006

**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* at M. W. F. 9 and *Physiology Lecture Theatre 3* at Tu.9 unless otherwise stated

DR S. A. EDGLEY  
Introduction to CNS. (One lecture, 6 Oct.)

DR H. R. MATTHEWS  
Biology of Neurons. (Two lectures, 7, 10 Oct.)

DR D. R. J. BAINBRIDGE  
CNS Morphology. (One lecture, 11 Oct.)

DR J. M. HOLMES  
CNS Overview. (One lecture, 12 Oct.) *Physiology Lecture Theatre 3*

DR I. M. WINTER  
Somatic Sensation and Pain. (Three lectures, 14, 17, 19 Oct.)

DR D. R. J. BAINBRIDGE  
CNS Environment. (One lecture, 18 Oct.)

PROF. P. A. MCNAUGHTON  
Pharmacology of Pain. (One lecture, 21 Oct.)

DR S. A. EDGLEY  
The Motor System. (Five lectures, 24, 26, 28, 31 Oct., 2 Nov.)

DR D. R. J. BAINBRIDGE  
Cranial Nerves. (Two lectures, 25 Oct., 1 Nov.)

DR R. C. HARDIE  
The Visual System. (Four lectures, 4, 7, 9, 11 Nov.)

DR D. R. J. BAINBRIDGE  
Eye: Neurological Aspects. (One lecture, 8 Nov.)

DR H. R. MATTHEWS  
Olfaction and Taste. (One lecture, 14 Nov.)

DR D. R. J. BAINBRIDGE  
Ear: Neurological Aspects. (One lecture, 15 Nov.)

PROF. A. C. CRAWFORD  
Hearing. (Two lectures, 16, 18 Nov.)

DR J. H. ROGERS  
Development, Plasticity and Repair of the Nervous System. (Two lectures, 28, 30 Nov.)

DR R. J. M. FRANKLIN  
Veterinary CNS. (Two lectures, 22, 29 Nov.)

DR A. C. ROBERTS  
Arousal, Homeostasis and Motivation. (Three lectures, 21, 23, 25 Nov.)

**Practical work.**

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, 18, 20, 23, 25, 27, 30 Jan., 1 Feb.)

PROF. P. MCNAUGHTON  
Neuropharmacology. (Three lectures, 3, 6, 8 Feb.)

**Practical work.**

The same continued.

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

MICHAELMAS 2005

LENT 2006

EASTER 2006

**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* at M. W. F. 9 unless otherwise stated

DR S. A. EDGLEY

Introduction to CNS. (One lecture, 6 Oct.)

DR H. R. MATTHEWS

Biology of Neurons. (Two lectures, 7, 10 Oct.)

DR S. JONES

Blood Brain Barrier, CSF and Cerebral Blood Flow.  
(One lecture, 12. Oct.)

DR I. M. WINTER

Somatic Sensation and Pain. (Three lectures, 14, 17,  
19 Oct.)

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (One lecture, 21 Oct.)

DR S. A. EDGLEY

The Motor System. (Five lectures, 24, 26, 28, 31 Oct.,  
2 Nov.)

DR R. C. HARDIE

The Visual System. (Four lectures, 4, 7, 9, 11 Nov.)

DR H. R. MATTHEWS

Olfaction and Taste. (One lecture, 14 Nov.)

PROF. A. C. CRAWFORD

Hearing. (Two lectures, 16, 18 Nov.)

DR J. ROGERS

Development, Plasticity and Repair of the Nervous  
System. (Two lectures, 28, 30 Nov.)

DR A. C. ROBERTS

Arousal, Homeostasis and Motivation. (Three lectures,  
21, 23, 25 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, 18, 20, 23 Jan.)

DR L. CLARK

Neurobiology of Mental Illness II. (Three  
lectures, 25, 27, 30 Jan.)

DR I. MCLAREN

Psychology of Cognition and Memory. (Two  
lectures, 1, 3 Feb.)

DR A. C. ROBERTS

Neurobiology of Learning, Memory and  
Cognition. (Five lectures, 6, 8, 10, 13,  
15 Feb.)

DR P. J. RICHARDSON

Pharmacology and Drug Treatment of  
CNS Disorders. (Six lectures, 17, 20, 22,  
27 Feb., 1, 3 Mar.)**Clinical Demonstration.**24 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, 14, 21, 28 Dec.) M. 11  
*Babbage Lecture Theatre*

DR A. FORHEAD

Reproduction. (Six lectures, 19, 21, 24, 26, 28,  
31 Jan.) M. Tu. Th. Sa. 9 *Venue to be*  
*confirmed*

DR S. K. L. ELLINGTON

Development. (Two lectures 2, 4 Feb.) Th. Sa. 9  
*Venue to be confirmed*

DR D. R. J. BAINBRIDGE, DR J. GIBSON

Biology of Pregnancy. (Four lectures, 7, 9, 11,  
14 Feb.) Tu. Th. Sa. 9 *Venue to be*  
*confirmed*

DR D. R. J. BAINBRIDGE

Birth, Lactation and the Neonate. (Three  
lectures, 16, 18, 21 Feb.) Tu. Th. Sa. 9  
*Venue to be confirmed*DR J. GIBSON, DR J. HOLMES AND DR D. R. J.  
BAINBRIDGEComparative Aspects of Reproduction. (Nine  
lectures 23, 28 Feb., 2, 6, 7, 9, 13, 14, 16  
Mar.) M. Tu. Th. Sa. 9 *Arts School*  
*Room C***Practical Work.**Anatomy and physiology of the mammalian  
reproductive system. (M. Th. 2–4)**Practical Work.**

The same continued. (F. 10–12)

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

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EASTER 2006

**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 Website 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. 163).

**List 1**

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

**CLINICAL AND APPLIED PHYSIOLOGY**Course Organiser: Dr R. Barnes (email: [rjb4@emma.cam.ac.uk](mailto:rjb4@emma.cam.ac.uk))**EXPERIMENTAL PSYCHOLOGY**Course Organiser: Dr R. McCarthy (email: [rm107@cam.ac.uk](mailto:rm107@cam.ac.uk))**INFECTIOUS DISEASES**Course Organiser: Dr I. B. Kingston (email: [ibk1000@cam.ac.uk](mailto:ibk1000@cam.ac.uk))**JANUS DRUGS: USE AND ABUSE**Course Organiser: Dr J. Morton (email: [ajm41@cam.ac.uk](mailto: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 P. Schofield (email: [ps@mole.bio.cam.ac.uk](mailto:ps@mole.bio.cam.ac.uk))**MAN, MOLECULES AND THE ENVIRONMENT**Course Organiser: Dr J. Brackenbury (email: [jhb1000@mole.bio.cam.ac.uk](mailto:jhb1000@mole.bio.cam.ac.uk))**SENSORIMOTOR NEUROBIOLOGY**Course Organiser: Dr I. M. Winter (email: [imw1001@cam.ac.uk](mailto:imw1001@cam.ac.uk))**TUMOUR BIOLOGY**Course Organiser: Dr I. B. Kingston (email: [ibk1000@cam.ac.uk](mailto:ibk1000@cam.ac.uk))**PREPARING FOR PATIENTS**

(Medical Students: SECOND M.B. EXAMINATIONS)

Course Organiser: Dr J. Silverman (email: [js355@medschl.cam.ac.uk](mailto: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.

MS J. GRIFFITHS AND DR J. SILVERMAN

## Group 1

**Briefing.** 26 Sep., 10–12 *Pathology Lecture Theatre***Review.** 29 Sept., or 30 Sept., 10–12 or 2–4 *Department of Pathology*

## Group 2

**Briefing.** 1 Dec., 10–12 *Pathology Lecture Theatre***Review.** 6 or 7 Dec., 10–12 or 2–4 *Department of Pathology*

## Group 3

**Briefing.** 11 Jan., 10–12 *Pathology Lecture Theatre***Review.** 16 or 17 Jan., 10–12 or 2–4 *Department of Pathology*

**MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)**

MICHAELMAS 2005

LENT 2006

EASTER 2006

**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. SILVERMAN  
**Briefing.** 9 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.

MS J. GRIFFITHS AND DR J. SILVERMAN  
 Briefing. 5 Oct. 4–5.30 *Anatomy Lecture Theatre*

Review sessions, 16 or 17 or 20 or 21 Mar.,  
 10–12 or 2–4 *Mill Lane 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: 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 Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

DR R. FRANKLIN AND DR D. TUCKER  
 Veterinary History and Animal/Human Health Interface.  
 (Two lectures, 5 Oct., W. 2–4.) *Department of Veterinary Medicine*

DR D. WILLIAMS  
 Veterinary Ethics. (Three lectures, 6 Oct. 12–1; 31 Oct. 2–3; M. 7 Nov. 2–3)

MR J. HOULTON  
 Veterinary Regulation. (One lecture, 10 Nov., 9–10)

PROF. I. MCCONNELL AND OTHERS  
 Pharmaceutical Industry and Research. (Two lectures, W. 30 Nov. 12, 2) *Department of Veterinary Medicine*

DR D. TUCKER AND OTHERS  
 Public Health, Food Safety, Zoonotic and Notifiable Disease. (Three lectures, 7 Nov. 3–4; Tu. 3; 21 Nov. 2–4)

**Practical work.**

30 Nov., W. 3–5 *Department of Veterinary Medicine*

DR J. SILVERMAN  
 Veterinary Communication Skills  
 (One lecture) W. 18 Jan. 2

**Practical work.**

18 Jan., Th. 3–5 *Biffen Lecture Theatre*  
 19 Jan., Th. 2–4 *Department of Veterinary Medicine*

Practical class *Department of Veterinary Medicine* (24 Feb. 9 a.m.–1 p.m.)