

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART I<sub>B</sub>

MICHAELMAS 2004

LENT 2005

EASTER 2005

## 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 8 Oct.)

DR A. MOFFETT

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 / Immune Response to Infectious Agents. (Four lectures, beginning 27 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 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. (One lecture, 29 Nov.)

**Practical Work.** *Department of Pathology*

Tu. W. Th. and F. a.m. and p.m.

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. 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 4 Feb.)

DR C. PRINT

Blood Vessels and Atherosclerosis; Haemostasis, Thrombosis and Embolism; Ischaemia, Infarction, Heart Failure and Hypertension. (Three lectures, beginning 16 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. 12 May a.m. and p.m., F. 13 May a.m. and p.m.

*Microbiology*

W. 18 May a.m. and p.m., F. 20 May a.m. and p.m.

## COMPARATIVE VERTEBRATE BIOLOGY

(Veterinary Students)

Course Organiser: Dr J. H. Brackenbury (e-mail: [jhb1000@hermes.cam.ac.uk](mailto: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>*In Arts School, Bene't Street Lecture Theatre Room A and the Biffen Lecture Theatre, Department of Genetics***Lectures.**M. 12, Tu. and Th. 10, in the *Arts School, Bene't Street Room A.*W. 12, in the *Biffen Lecture Theatre.*F. 9, in the *Arts School, Bene't Street Room A.*DR J. H. BRACKENBURY AND DR W. A. HARRIS  
Vertebrate Structure and Function (Six lectures, 1, 3, 9, 11, 15, 18 Mar.)

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

The Mammalian Head (Six lectures, 4, 7, 8, 10, 14, 17 Mar.)

**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.**Tu. Th. F. 9, in the *Biffen Lecture Theatre.*  
W. F. 9, in the *Arts School, Bene't Street Room A.*

DR J. H. BRACKENBURY AND MRS J. PEARSON

Vertebrate Structure and Function  
(continued) (Seven lectures, 27, 29 Apr., 6, 10, 13, 17, 20 May)

DR D. R. J. BAINBRIDGE

The Mammalian Head (continued) (Four lectures, 3, 5, 12, 19 May)

**Practical Work**

The same continued.

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

MICHAELMAS 2004

LENT 2005

EASTER 2005

**HUMAN REPRODUCTION**

(Medical Students)

Course Organiser Dr R. J. Barnes (email: 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.**

*Babbage Lecture Theatre* at M. 11  
 DR W. H. COLLEDGE  
 Endocrinology. (Three lectures, 15, 22, 29 Nov.)

**Lectures.**

*Anatomy Lecture Theatre* at M. Tu. Th. S. 9  
*unless otherwise stated.*  
 DR P. SCHOFIELD  
 Sexual differentiation. (One lecture,  
 Th. 20 Jan.)  
 Reproductive hormones: the sexual  
 messengers (One lecture, Sa. 22 Jan.)  
 Gametogenesis and ovarian cycles (Three  
 lectures, Tu. 25, Th. 27, Sa. 29 Jan.)  
 DR G. BURTON  
 Coition, fertilization and blastocyst  
 development. (Three lectures, Tu. 1,  
 Th. 3, Sa. 5 Feb.)  
 Placentation (One lecture, Tu. 8 Feb.)  
 DR R. J. BARNES  
 Maternal adaptations to pregnancy and  
 placental physiology. (Two lectures,  
 Th. 10, Sa. 12 Feb.)  
 Preparation for birth and delivery (Two  
 lectures, Tu. 15, Th. 17 Feb.)  
 Lactation and neonatal physiology (Two  
 lectures, Sa. 19, Tu. 22 Feb.)  
 REVD DR J. CADDICK  
 Principles of medical ethics. (Five lectures,  
 Th. 24 Feb., Tu. 1, Th. 3, M. 7, Tu. 8 Mar.)  
 DR J. POWLES  
 Reproduction, demography and population  
 health. (Three lectures, Th. 10, M. 14,  
 Tu. 15 Mar.)  
 PROF. M. RICHARDS  
 Human genetic technologies. (One lecture,  
 Th. 17 Mar.)

**MECHANISMS OF DRUG ACTION**

Course organiser: Dr Z. Sarnyai (email: zs220@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. 10, Tu. Th. 12 *Chemistry Main Lecture Theatre*  
 DR J. M. EDWARDSON  
 Drug interactions with receptors and ion channels. (Five  
 lectures, 11–21 Oct.)  
 DR R. MURRELL-LAGNADO  
 Pharmacology of peripheral neural transmission. (Five  
 lectures, 25 Oct.–2 Nov.)  
 DR C. R. HILEY  
 Cardiovascular and renal pharmacology. (Eight lectures,  
 4–22 Nov.)  
 DR J. S. GIBSON  
 Anthelmintics (Two lectures, 23, 25 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 R. MURRELL-LAGNADO  
 Pharmacokinetics, drug metabolism, and  
 general anaesthetics. (Five lectures,  
 20–27 Jan., 1 Feb.)  
 DR M. A. BARRAND  
 Chemotherapy. (Five lectures, 3–10 Feb.,  
 15 Feb.)  
 DR P. THORN  
 Pharmacology of inflammation and  
 immunosuppression (Five lectures,  
 17–24 Feb., 1 Mar.)

**Practical Work.**  
 The same continued. (weeks 1–5)

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

MICHAELMAS 2004

LENT 2005

EASTER 2005

**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>

**Lectures**M. W. F. 9 *Babbage Lecture Theatre*Tu. 9 *Physiology Lecture Theatre 3*

DR S. A. EDGLEY

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

PROF. R. C. THOMAS

Biology of neurones. (Two lectures, F. 8, M. 11 Oct.)

DR D. R. J. BAINBRIDGE

CNS Morphology. (One lecture, Tu. 12 Oct.) *Physiology Lecture Theatre 3*

DR J. M. HOLMES

CNS Overview. (One lecture, W. 13 Oct.) *Physiology Lecture Theatre 3*

DR I. M. WINTER

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

DR D. R. J. BAINBRIDGE

CNS Environment. (One lecture, Tu. 19 Oct.) *Physiological Lecture Theatre 3*

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (One lecture, F. 22 Oct.)

DR D. J. TOLHURST

The Motor System. (Five lectures, M. 25, W. 27, F. 29 Oct. M. 1, W. 3 Nov.)

DR D. R. J. BAINBRIDGE

Cranial Nerves. (Two lectures, Tu. 26 Oct. Tu. 2. Nov.) *Physiology Lecture Theatre 3*

DR R. C. HARDIE

The Visual System. (4 lectures, F. 5, M. 8, W. 10, F. 12 Nov.)

DR D. R. J. BAINBRIDGE

Eye: Neurological Aspects. (One lecture, Tu. 9 Nov.) *Physiology Lecture Theatre 3*

PROF. E. B. KEVERNE

Olfaction and Taste. (One lecture, M. 15 Nov.)

DR D. R. J. BAINBRIDGE

Ear: Neurological Aspects. (One lecture, Tu. 16 Nov.) *Physiology Lecture Theatre 3*

PROF. A. C. CRAWFORD

Hearing. (Two lectures, W. 17, F. 19 Nov.)

DR J. H. ROGERS

Development, Plasticity and Repair of the Nervous System. (Two lectures, M. 22, W. 24 Nov.)

DR R. J. M. FRANKLIN

Veterinary CNS. (Two lectures, Tu. 23, Tu. 30 Nov.) *Physiology Lecture Theatre 3*

PROF. J. HERBERT

Arousal, Homeostasis and Motivation. (Three lectures, F. 26, M. 29, Nov., W. 1 Dec.)

**Practicals**

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

**Lectures**M. W. F. 9 *Physiology Lecture Theatre 3*

DR K. ELLIKER

Animal Behaviour. (Seven lectures, W. 19, F. 21, M. 24, W. 26, F. 28, M. 31 Jan., W. 2 Feb.)

PROF. P. MCNAUGHTON

Neuropharmacology. (Three lectures, F. 4, M. 7, W. 9 Feb.)

**Practicals**

The same continued.

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

MICHAELMAS 2004

LENT 2005

EASTER 2005

**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>**Lectures**M. W. F. 9 *Babbage Lecture Theatre*

DR S. A. EDGLEY

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

PROF. R. C. THOMAS

Biology of neurones. (Two lectures, F. 8, M. 11 Oct.)

DR S. JONES

Blood Brain Barrier; CSF and cerebral blood flow. (One lecture, W. 13. Oct.)

DR I. M. WINTER

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

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (One lecture, F. 22 Oct.)

DR D. J. TOLHURST

The Motor System. (Five lectures, M. 25, W. 27, F. 29 Oct. M. 1, W. 3 Nov.)

DR R. C. HARDIE

The Visual System. (4 lectures, F. 5, M. 8, W. 10, F. 12 Nov.)

PROF. E. B. KEVERNE

Olfaction and Taste. (One lecture, M. 15 Nov.)

PROF. A. C. CRAWFORD

Hearing. (Two lectures, W. 17, F. 19 Nov.)

DR J. ROGERS

Development, Plasticity and Repair of the Nervous System. (Two lectures, M. 22, W. 24 Nov.)

PROF. J. HERBERT

Arousal, Homeostasis and Motivation. (Three lectures, F. 26, M. 29, Nov., W. 1 Dec.)

**Practicals**Practical classes in Neuroanatomy and Neurophysiology  
As indicated in the online timetables.**Lectures**M. W. F. 9 *Babbage Lecture Theatre*

PROF. S. BARON COHEN AND PROF. B. J. EVERITT

Neurobiology of Mental Illness. (Six lectures, W. 19, F. 21, M. 24, W. 26, F. 28, M. 31 Jan.)

DR I. MCLAREN

Psychology of Cognition and Memory. (Two lectures, W. 2, F. 4 Feb.)

DR R. M. RIDLEY

Neurobiology of Learning, Memory and Cognition. (Five lectures, M. 7, W. 9, F. 11, M. 14, W. 16 Feb.)

DR P. J. RICHARDSON

Pharmacology and Drug Treatment of CNS Disorders. (Six lectures, F. 18, M. 21, W. 23, M. 28 Feb., W. 2, F. 4 Mar.)

**Clinical Demonstration**

9–11am, F. 25 Feb

*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>**Lectures***Babbage Lecture Theatre* M. at 11.

DR W. H. COLLEDGE

Endocrinology. (Three lectures, 15, 22, 29 Nov.)

**Lectures.**M. Tu. Th. Sa. 9 *Main Physiology Lecture**Theatre* (20 Jan.–22 Feb.) *Arts School, Bene't Street, Room C* (24 Feb.–17 Mar.)

DR A. FORHEAD

Reproduction. (Six lectures, 20, 22, 25, 27, 29 Jan., 1 Feb.)

DR S. K. L. ELLINGTON

Development. (Two lectures 3, 5 Feb.)

DR D. R. J. BAINBRIDGE AND DR J. GIBSON

Biology of Pregnancy. (Four lectures, 8, 10, 12, 15 Feb.)

DR D. R. J. BAINBRIDGE,

Birth, lactation and the neonate. (Three lectures, 17, 19, 22 Feb.)

DR J. GIBSON, DR J. HOLMES AND DR D. R. J.

BAINBRIDGE

*Arts School, Bene't Street, Room C*

Comparative Aspects of Reproduction. (Nine lectures 24 Feb., 1, 3, 7, 8, 10, 14, 15, 17 Mar.)

**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)**

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**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. 162).

**List 1**

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

**EXPERIMENTAL PSYCHOLOGY**

Course Organiser: Dr R. Cardinal (email: [rnc1001@cam.ac.uk](mailto:rnc1001@cam.ac.uk))

**USE AND ABUSE: PHARMACOLOGY OF JANUS DRUGS**

Course Organiser: Dr J. Morton (email: [ajm41@cam.ac.uk](mailto:ajm41@cam.ac.uk))

**CLINICAL AND APPLIED PHYSIOLOGY**

Course Organiser: Dr R. Barnes (email: [rjb4@emma.cam.ac.uk](mailto:rjb4@emma.cam.ac.uk))

**INFECTIOUS DISEASES**

Course Organiser: TBA

**List 2**

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

**DEVELOPMENTAL BIOLOGY: CONCEPTS TO CLINIC**

Course Organiser: Dr P. Schofield (email: [ps@mole.bio.cam.ac.uk](mailto:ps@mole.bio.cam.ac.uk))

**TUMOUR BIOLOGY**

Course Organiser: Dr P. Edwards (email: [pawe1@cam.ac.uk](mailto:pawe1@cam.ac.uk))

**MAN, MOLECULES AND THE ENVIRONMENT**

Course Organiser: Dr M. Barrand (email: [mb1002@mole.bio.cam.ac.uk](mailto:mb1002@mole.bio.cam.ac.uk))

**SENSORIMOTOR NEUROBIOLOGY**

Course Organiser: Dr I. Winter (email: [imw1001@cam.ac.uk](mailto:imw1001@cam.ac.uk))

**PREPARING FOR PATIENTS**

(Medical Students: Second MB Examination)

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 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. 27 Sep., 10–12 *Pathology Lecture Theatre*  
Review. 30 Sept., or 1 Oct., 10–12 or 2–4 *Department of Pathology*

**Group 2**

Briefing. 2 Dec., 10–12 *Pathology Lecture Theatre*  
Review. 7 or 8 Dec., 10–12 or 2–4 *Department of Pathology*

**Group 3**

Briefing. 12 Jan., 10–12 *Pathology Lecture Theatre*  
Review. 17 or 18 Jan., 10–12 or 2–4 *Department of Pathology*

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

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**PREPARING FOR PATIENTS C (second year strand)**

(Medical Students: Second MB Examination)

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

<p>DR J. SILVERMAN Briefing (all students) Th. 10 Mar., 3-5. <i>Anatomy Lecture Theatre</i></p>
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**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.

<p>MS J. GRIFFITHS AND DR J. SILVERMAN Briefing, 6 Oct. 4-5.30 <i>Anatomy Lecture Theatre</i> Review sessions, 18 or 21 or 22 or 23 Mar., 10-12 or 2-4 <i>Mill Lane Room 6 and 7</i></p>
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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>

<p>DR R. FRANKLIN AND DR D. TUCKER Veterinary History and Animal/Human Health Interface <i>Faculty and Department of Veterinary Medicine</i> (Two lectures, W. 6 Oct. 2-4.)</p>
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<p>DR D. WILLIAMS Veterinary Ethics. (Three lectures, Th. 7 Oct., 12. W. 1 Nov. 2-3, M. 8 Nov. 2-3.)</p>
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<p>MR J. HOULTON Veterinary Communication. (One lecture) 25 Nov. 9.</p>
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<p>PROF. I. MCCONNELL AND OTHERS <i>Faculty and Department of Veterinary Medicine</i> Pharmaceutical Industry and Research. (Two lectures, W. 1 Dec. 12 and 2)</p>
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<p>DR D. TUCKER AND OTHERS Public health, food safety, zoonotic and notifiable disease. (Three lectures, 8 Nov. 3., 22 Nov. 2-4)</p>
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**Practicals***Faculty and Department of Veterinary Medicine*  
1 Dec. 3-5

<p>DR J. SILVERMAN Veterinary Communication Skills (One lecture) W. 19 Jan. 2</p>
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**Practicals**19 Jan. 3-5 *Biffen Lecture Theatre*  
7 Feb. 2-4  
*Faculty and Department of Veterinary Medicine*  
PFVP Visit (25 Feb. all day)