

## MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1b

MICHAELMAS 2009

LENT 2010

EASTER 2010

### BIOLOGY OF DISEASE

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

Course Website: [www.path.cam.ac.uk/ugrad/part1/](http://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, 9 Oct.)

PROF. J. TROWSDALE

Innate Immune System; Acute Inflammation: Defence Mechanisms; Healing and Chronic Inflammation. (Three lectures, beginning 12 Oct.)

DR A. KELLY

The Adaptive Immune System; B Cells and Antibodies; The Major Histocompatibility Complex; T Cells. (Four lectures, beginning 19 Oct.)

PROF. J. TROWSDALE

Tolerance; Autoimmunity; Hypersensitivity; Transplantation. (Four lectures, beginning 28 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 6 Nov.)

DR I. B. KINGSTON

Introduction to Parasitic Diseases; Key Examples of Parasitic Diseases: Malaria; Key Examples of Parasitic Diseases: Schistosomiasis. (Three lectures, beginning 23 Nov.)

DR A. CARMICHAEL

Fungi (Two lectures, beginning 30 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 13 Jan.)

PROF. A. WYLLIE

Vascular reactions to injury; Atherosclerosis; Ischemia, infarction and their results. (Three lectures, beginning 29 Jan.)

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 5 Feb.)

### 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>

**Lectures.** *Biffen Lecture Theatre unless otherwise stated*

DR J. H. BRACKENBURY AND PROF. W. A. HARRIS

Vertebrate Structure and Function. (Eight Lectures, M. 10 (15 Feb.); W. 9 (17 Feb. *Hodgkin Huxley Room.*); Th. 10 (25 Feb. *Plant Sciences Lecture Theatre*); W. 9 (3 Mar. *Hodgkin Huxley Room.*); W. 12 (3 Mar.); F. 9 (5 Mar. *Hodgkin Huxley Room*); Tu. 11 (9 Mar.); W. 9 (10 Mar. *Hodgkin Huxley Room*)

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

The Mammalian Head. (Seven lectures, W. 12 (17 Feb.); Tu. 10 (23 Feb. *Plant Sciences Lecture Theatre*); W. 9 (24 Feb. *Hodgkin Huxley Room*); Tu. 10 (2 Mar. *Plant Sciences Lecture Theatre*); Th. 10 (4 Mar. *Plant Sciences Lecture Theatre*); M. 12 (8 Mar.); Tu. 12 (9 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.** *Biffen Lecture Theatre unless otherwise stated*

DR J. H. BRACKENBURY AND MRS J. PEARSON

Vertebrate Structure and Function (continued). (Four lectures, W. 12 (21 Apr.); W. 9 (28 Apr. *Hodgkin Huxley Room*); W. 12 (28 Apr.); Th. 9 (29 Apr.); F. 9 (30 Apr.))

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

The Mammalian Head (continued). (Four lectures, W. 9 (21 Apr.); W. 12 (21 Apr.); Th. 12 (22 Apr.); F. 12 (30 Apr.))

**Practical Work**

The same continued.

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

MICHAELMAS 2009

LENT 2010

EASTER 2010

**HUMAN REPRODUCTION**

(Medical Students)

Course Organiser: Dr P. Schofield (email: [ps@mole.bio.cam.ac.uk](mailto:ps@mole.bio.cam.ac.uk))Further information may be obtained from the Faculty Website at [http://www.phar.cam.ac.uk/teaching/tea\\_mvst1b\\_moda.html](http://www.phar.cam.ac.uk/teaching/tea_mvst1b_moda.html)All lectures take place in the *Anatomy Lecture Theatre*, on M. Tu. Th. S. 9, W. 2 unless otherwise stated.

## PROF. W. COLLEGE

Endocrinology. (Three lectures, M. 11 (9, 16, 23 Nov.)  
*Chemistry Lecture Theatre*

## REVD J. CADDICK

Principles of Medical Ethics. (Five lectures, 13, 14, 19, 20, 21 Jan.)

## DR P. SCHOFIELD

Sexual Differentiation. (One lecture, 26 Jan.)

Reproductive Hormones: the Sexual Messengers (One lecture, 27 Jan.)

Gametogenesis and Ovarian Cycles. (Three lectures, 28 Jan., 2, 3 Feb.)

## PROF. M. H. JOHNSON

Coition, Fertilization and Blastocyst Development. (Three lectures, 4, 9, 10 Feb.)

Placentation (Two lectures, 11, 16 Feb.)

## DR R. BARNES

Maternal Adaptations to Pregnancy and Placental Physiology. (One lecture, 18 Feb.)

Preparation for Birth and Delivery (Two lectures, 23, 25 Feb.)

Lactation and Neonatal Physiology (Two lectures, 1, 2 Mar.)

## DR J. POWLES

Reproduction, Demography and Population Health. (Three lectures, 4, 8, 9 Mar.)

## DR E. GKRIANIA-KLOTSAS

HIV and Aids (One lecture, F. 11 (12 Mar.))

**MECHANISMS OF DRUG ACTION**Course organiser: Dr Z. Sarnyai (email: [zs220@cam.ac.uk](mailto:zs220@cam.ac.uk))Further information may be obtained from the Department of Pharmacology Website at [http://www.phar.cam.ac.uk/teaching/tea\\_mvst1b\\_moda.html](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, 13–22 Oct.)

## PROF. J. M. EDWARDSON

Pharmacology of Peripheral Neural Transmission. (Five lectures, 26 Oct.–3 Nov.)

## DR R. M. HENDERSON

Cardiovascular and Renal Pharmacology. (Six lectures, 5–17 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, 19–26 Nov.)

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

## DR J. S. GIBSON

Anthelmintics (Two lectures, 19, 23 Nov.)

## DR J. BREARLEY

Aspects of Veterinary Pharmacology (Two lectures, 24, 26 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, 14–21, 26 Jan.)

## DR M. A. BARRAND

Pharmacology of Inflammation and Immunosuppression. (Five lectures, 28 Jan.–4 Feb., 9 Feb.)

## DR H. W. VAN VEEN

Chemotherapy. (Five lectures, 11–18, 22 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 2009

LENT 2010

EASTER 2010

**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/facbiol/mvst/>All lectures take place in the *Babbage Lecture Theatre*, on M. W. F. 9 unless otherwise stated.

DR S. JONES

Introduction to CNS. (One lecture, 8 Oct.)

DR H. R. MATTHEWS

Biology of neurons. (Two lectures, 9, 12 Oct.)

DR D. R. J. BAINBRIDGE

CNS Morphology. (One lecture, 13 Oct. *Biffen Lecture Theatre*)

DR D. R. J. BAINBRIDGE

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

DR I. M. WINTER

Somatic Sensation and Pain. (Three lectures, 16, 19, 21 Oct.)

DR D. R. J. BAINBRIDGE

CNS Environment. (One lecture, 20 Oct. *Biffen Lecture Theatre*)

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (Two lectures, 23 Oct., W. 2 25 Nov.)

DR D. J. PARKER

The Motor System. (Five lectures, 26, 28, 30, Oct., 2, 4 Nov.)

DR D. R. J. BAINBRIDGE

Cranial Nerves. (Two lectures, 27 Oct., 3 Nov. *Biffen Lecture Theatre*)

DR H. R. MATTHEWS

The Visual System. (4 lectures, 6, 9, 11, 13 Nov.)

DR D. R. J. BAINBRIDGE

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

DR H. R. MATTHEWS

Olfaction and Taste. (One lecture, 16 Nov.)

DR D. R. J. BAINBRIDGE

Ear: Neurological Aspects. (One lecture, 17 Nov. *Biffen Lecture Theatre*)

PROF. A. C. CRAWFORD

Hearing. (Two lectures, 18, 20 Nov.)

PROF. R. J. M. FRANKLIN

Veterinary CNS. (Two lectures, Th. 9-11, 26 Nov. *Plant Sciences Lecture Theatre*)

DR A. C. ROBERTS

Arousal, Homeostasis and Motivation. (Three lectures, 23, 25, 27 Nov.)

DR J. H. ROGERS

Development, Plasticity and Repair of the Nervous System. (Two lectures, 30 Nov., 2 Dec.)

**Practicals**

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

T.B.A.

Animal Behaviour. (Seven lectures, 13, 15, 18, 20, 22, 25, 29 Jan. *Plant Sciences Lecture Theatre*)

PROF. P. A. MCNAUGHTON

Neuropharmacology. (Three lectures, 1, 3, 5 Feb. *Plant Sciences Lecture Theatre*)**Practicals**

The same continued.

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

MICHAELMAS 2009

LENT 2010

EASTER 2010

### 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/facbiol/mvst/>

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

DR S. JONES

Introduction to CNS. (One lecture, 8 Oct.)

DR H. R. MATTHEWS

Biology of Neurons. (Two lectures, 9, 12 Oct.)

DR S. JONES

Blood Brain Barrier, CSF and Cerebral Blood Flow. (One lecture, 14 Oct.)

DR I. M. WINTER

Somatic Sensation and Pain. (Three lectures, 16, 19, 21 Oct.)

PROF. P. A. MCNAUGHTON

Pharmacology of Pain. (Two lectures, 23 Oct., 26 Oct.)

DR D. J. PARKER

The Motor System. (Five lectures, 26, 28, 30 Oct., 2, 8 Nov.)

DR H. R. MATTHEWS

The Visual System. (Four lectures, 6, 9, 11, 16 Nov.)

DR H. R. MATTHEWS

Olfaction and Taste. (One lecture, 18 Nov.)

PROF. A. C. CRAWFORD

Hearing. (Two lectures, 20, 23 Nov.)

DR A. C. ROBERTS

Arousal, Homeostasis and Motivation. (Three lectures, W. 9–10 (25 Nov.), W. 2–3 (25 Nov.), 27 Nov.)

DR J. ROGERS

Development, Plasticity and Repair of the Nervous System. (Two lectures, 30 Nov., 2 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, 13, 15, 18 Jan.)

DR L. CLARK

Neurobiology of Mental Illness II. (Three lectures, 20, 22, 25 Jan.)

DR L. SAKSIDA

Psychology of Cognition and Memory. (Two lectures, 27, 29 Jan.)

PROF. A. C. ROBERTS

Neurobiology of Learning, Memory and Cognition. (Five lectures, 1, 3, 5, 8, 10 Feb.)

DR P. J. RICHARDSON

Pharmacology and Drug Treatment of CNS Disorders. (Six lectures, 12, 15, 17, 22, 24, 26 Feb.)

**Clinical Demonstration**19 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 Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst/>

DR W. V. COLLEGE

Endocrinology. (Three lectures, M. 119, 16, 23 Nov.)  
*Chemistry Lecture Theatre*

DR A. J. FORHEAD

Reproduction. (Six lectures Th. 9–10 (14 Jan.), Sat. 9–10 (16 Jan.), T. 9–10 (19 Jan.), Th. 9–10 (21 Jan.), Sat. 9–10 (23 Jan.), T. 9–10 (26 Jan.). *Physiology Lecture Theatre 1*)

DR S. K. L. ELLINGTON

Development. (Two lectures Th. 9–10 (28 Jan.), Sat. 9–10 (30 Jan.) *Physiology Lecture Theatre 1*)

DR D. R. J. BAINBRIDGE AND DR R. J. BARNES

Biology of Pregnancy. (Four lectures, T. 9–10 (2 Feb.), Th. 9–10 (4 Feb.), Sat. 9–10 (6 Feb.), *Physiology Lecture Theatre 1*, **And** T. 9–10 (9 Feb.) *Physiology Lecture Theatre 1*)

DR D. R. J. BAINBRIDGE

Birth, Lactation and the Neonate. (Three lectures, Th. 9–10 (11 Feb.), Sat. 9–10 (13 Feb.), T. 9–10 (16 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 (15 Jan. *Biffen Lecture Theatre*), F. 10. (22 Jan. *Biffen Lecture Theatre*), M. 10 (25 Jan. *Biffen Lecture Theatre*), Tu. 10 (9 Feb. *Plant Sciences Lecture Theatre*), W. 9 (10 Feb. *Main Physiology Lecture Theatre*), Th. 9 (18 Feb. *Biffen Lecture Theatre*), Tu. 9 (23 Feb. *Biffen Lecture Theatre*), Th. 9 (25 Feb. *Biffen Lecture Theatre*), Tu. 9 (2 Mar. *Biffen Lecture Theatre*))**Practical Work**

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

**Practical Work**

The same continued. (F. 10–12)

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

MICHAELMAS 2009

LENT 2010

EASTER 2010

**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 22 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, Th, and Sat.*

Course Organiser: Dr R. J. Barnes (email: [rjb40@cam.ac.uk](mailto:rjb40@cam.ac.uk))

**EXPERIMENTAL PSYCHOLOGY**

Course Organiser: Dr J. Simons (email: [jss30@cam.ac.uk](mailto:jss30@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 L. Heisler (email: [lkh30@cam.ac.uk](mailto:lkh30@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: Prof. R. Keynes (email: [rjk10@cam.ac.uk](mailto:rjk10@cam.ac.uk))

**MAN, MOLECULES AND THE ENVIRONMENT**

Course Organiser: Dr M. Barrand (email: [mb10002@cam.ac.uk](mailto:mb10002@cam.ac.uk))

**SENSORIMOTOR NEUROBIOLOGY**

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

**TUMOUR BIOLOGY**

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

**PREPARING FOR PATIENTS B (Second Year Strand)**

(Medical students: SECOND M.B. EXAMINATION)

Course Organiser: Dr J. Silverman (email: [pfp@medschl.cam.ac.uk](mailto:pfp@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 M. WILLIAMS AND DR J. SILVERMAN

Group 1

**Briefing.** 28 Sep., 10–12 *Pathology Lecture Theatre*

**Review.** 1 Oct., or 2 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.** 3 Dec., 10–12 *Physiology Lecture Theatre*

**Review.** 8 or 9 Dec., 9–10.30, 10.30–12.00, or 1.30–3.00,

3.00–4.30 *Department of Anatomy, Room 78*

Group 3

**Briefing.** 6 Jan., 10–12 *Pathology Lecture Theatre*

**Review.** 11 or 12 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 2009

LENT 2010

EASTER 2010

**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.

MS K. ENRIGHT AND DR J. SILVERMAN  
**Briefing.** 4 Mar., 3–4.30. *Anatomy Lecture Theatre*

**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.

MRS M. WILLIAMS AND DR J. SILVERMAN  
**Briefing.** 7 Oct. 4–5.30 *Anatomy Lecture Theatre*  
**Review.** 11 or 12 or 15 Mar., 10–12 or 2–4 *School of Clinical Medicine Seminar Room*

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.

PROF. R. FRANKLIN AND DR D. TUCKER  
 Veterinary History and Animal/Human Health Interface.  
 (Two lectures, 7 Oct. W. 2–3. and 3–4) *Department of Veterinary Medicine*

DR D. WILLIAMS  
 Veterinary Ethics. (Three lectures, Th. 8 Oct. 12–1, M. 2 and 9 Nov., 2–3)

DR D. TUCKER AND OTHERS  
 Public Health, Food Safety, Zoonotic and Notifiable Disease. (Three lectures, M. 9 Nov. 3–4, Th. 12 Nov. 9–10, M. 23 Nov. 2–3)

MRS C. LATHAM  
 Veterinary Communication (one lecture M. 23 Nov. 3–4)

DR P. DOBSON  
 The Pharmaceutical Industry and the Veterinary Profession (one lecture Th. 3 Dec. 12–1 pm) *Department of Veterinary Medicine*

DR J. WOOD  
 The Veterinary Profession and the International Control of Infectious Disease (one lecture Th. 3 Dec. 2–3) *Department of Veterinary Medicine*

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

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

**Practicals**W. 13 Jan. 3–5 *Biffen Lecture Theatre*Th. 14 Jan. 2–4 *Department of Veterinary Medicine*F. 19 Feb. 9–1pm *Department of Veterinary Medicine*