

## Lectures Proposed by the Boards of the Faculties of Earth Sciences and Geography, Physics and Chemistry, Biology, and Mathematics, and the Board of History and Philosophy of Science

For particulars of the University Composition Fee and of the fees payable for attendance at separate courses of lectures see p. 2.

### MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA

#### *Introduction to the Course*

W. 2 (4 Oct.) Dr D. Bainbridge, Dr D. Chivers, Mr M. Herrtage (Veterinary Students) *Biffen Lecture Theatre*

W. 12 (4 Oct.) Dr D. Wood and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*

Th. 2 (5 Oct.) Dr D. MacDonald (All students) *Babbage Lecture Theatre*

MICHAELMAS 2007

LENT 2008

EASTER 2008

#### FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

Course Organiser: Dr J. C. Wilton

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

At the *Anatomy School* unless otherwise stated

#### Lectures. M. W. F. 9

*Anatomy Lecture Theatre*

DR J. C. WILTON

Course Aims/General Principles/Learning Objectives  
(One lecture, 5 Oct.)

DR J. C. WILTON

Principles of Fascia. (One lecture, 10 Oct.)

DR M. N. S. HUNT

Ethics Attitudes and Communication. (One lecture,  
12 Oct.)

DR J. C. WILTON

Introduction to Clinical Imaging.

Principles of the Cardiovascular System.

Principles of the Lymphatic System and Breast.

Principles of the Nervous System.

The Autonomic Nervous System.

Degeneration and Repair in the Peripheral Nervous  
System.

(Six lectures, 15, 17, 19, 24, 26, 31 Oct.)

DR P. SCHOFIELD

Development of the Body Plan.

Embryonic Folding, Somatogenesis and Segmentation.

(Two lectures, 9, 14 Nov.)

PROF D. RICHES

Posture and Locomotion. (One lecture, 16 Nov.)

DR J. C. WILTON

The Neck. (One lecture, 23 Nov.)

#### Special Periods

Clinical Demonstration. (30 Nov., 10–12) *William Harvey  
Lecture Theatre, Addenbrooke's*

#### Practical Work

Dissection and Prosections\*. Times according to Options

Allocation of Cadavers and Introduction to Anatomy:

3 Oct. at 9 or 10 according to options.

Dissection and Prosection: M. 10–12 and F. 2–4 or

Tu. 10–12 and Th. 10–12.

Anatomy of Procedures: W. 10–12 or 2–4 (fortnightly).

#### Lectures. W. F. 9

*Anatomy Lecture Theatre*

DR J. C. WILTON

Overview of the Cranial Nerves.

More Cranial Nerves.

(Two lectures, 18, 23 Jan.)

DR R. H. WHITAKER

The Ear. (One lecture, 25 Jan.)

DR J. C. WILTON

Clinical Applications and Cranial Nerve

Lesions. (One lecture, 30 Jan.)

DR R. H. WHITAKER

The Larynx. (One lecture, 1 Feb.)

DR C. V. H. BAKER

Craniofacial Development. (One lecture,

6 Feb.)

DR S. BRAY

Development of Body Cavities, Diaphragm,

Lungs.

Development of the Cardiovascular System.

(Two lectures, 20, 22 Feb.)

DR R. H. WHITAKER

Peritoneal Development and Nerve supply of

the Abdominal Cavity. (One lecture,

27 Feb.)

DR S. BRAY

Development of the Gut Tube and

Derivatives. (One lecture, 29 Feb.)

PROF. A. DIXON

Medical Imaging of Thorax and Abdomen.

(One lecture, 5 Mar.)

DR R. H. WHITAKER

The Inguinal Canal, Inguinal and Femoral

Hernias. (One lecture, 7 Mar.)

DR J. C. WILTON

Formative MCQ; Approaching the 'Clinical'

Essay (One lecture, 12 Mar.)

Clinical Demonstration. (14 Mar., 2–4) *William  
Harvey Lecture Theatre, Addenbrooke's*

The same continued.\*

The same continued.

#### Lectures. W. F. 9

*Anatomy Lecture Theatre*

DR P. SCHOFIELD

Development of the Urogenital System:

Hormonal and Genetic Co-ordination

of Development (One lecture, 25 Apr.)

DR R. H. WHITAKER

Rectum and Anal Canal

Urinary Continence and Incontinence

(Two lectures, 30 Apr., 2 May.)

DR P. SCHOFIELD

Development of the Urogenital System: Sex

Determination and the Genital System

(One lecture, 7 May)

DR J. C. WILTON

Formative Assessment (One lecture, 9 May.)

The same continued.\*

The same continued.

\* The Dissection Room is open to students between 10 and 12 M. Tu. Th.; and 2 and 4 F., and students should attend in accordance with their options.

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

MICHAELMAS 2007

LENT 2008

EASTER 2008

**HISTOLOGY**

Course Organiser: Dr T. Tiffert (email: jtt1000@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 notified of the time at which they should attend each of the classes.***Practical Work: Histology Classroom, Physiology Building**

1. Introduction to Microscopy and Cell Structure. F. 2–4 (5 Oct.); or M. 10–12 or 2–4 (8 Oct.); or W. 2–4 (10 Oct.); or F. 2–4 (12 Oct.); or W. 2–4 (17 Oct.)
2. Connective Tissue, Nerve and Neuromuscular Junction. F. 2–4 (19 Oct.); or M. 10–12 or 2–4 (22 Oct.); or W. 2–4 (24 Oct.); or F. 2–4 (26 Oct.); or W. 2–4 (31 Oct.)
3. Striated, Cardiac and Smooth Muscle. F. 2–4 (2 Nov.); or M. 10–12 or 2–4 (5 Nov.); or W. 2–4 (7 Nov.); or F. 2–4 (9 Nov.); or W. 2–4 (14 Nov.)
4. Vascular System and Blood. F. 2–4 (16 Nov.); or M. 10–12 or 2–4 (19 Nov.); or W. 2–4 (21 Nov.); or F. 2–4 (23 Nov.); or W. 2–4 (28 Nov.)

**Practical Work: Histology Classroom, Physiology Building**

5. Epithelia and Skin. F. 2–4 (18 Jan.); or M. 10–12 or 2–4 (21 Jan.); or W. 2–4 (23 Jan.); or F. 2–4 (25 Jan.); or W. 2–4 (30 Jan)
6. Respiratory System. F. 2–4 (1 Feb.); or M. 10–12 or 2–4 (4 Feb.); or W. 2–4 (6 Feb.); or F. 2–4 (8 Feb.); or W. 2–4 (13 Feb.)
7. Urinary System and Adrenal Gland. F. 2–4 (15 Feb.); or M. 10–12 or 2–4 (18 Feb.); or W. 2–4 (20 Feb.); or F. 2–4 (22 Feb.); or W. 2–4 (27 Feb.)
8. Alimentary System. F. 2–4 (29 Feb.); or M. 10–12 or 2–4 (3 Mar.); W. 2–4 (5 Mar.); or F. 2–4 (7 Mar.); or W. 2–4 (12 Mar.)

**Practical Work: Histology Classroom, Physiology Building**

9. Liver, Pancreas and Salivary Glands. F. 2–4 (25 Apr.); or M. 10–12 or 2–4 (28 Apr.); or W. 2–4 (30 Apr.); or F. 2–4 (2 May); or W. 2–4 (7 May)
10. Thyroid, Parathyroid, Pituitary Gland and Revision. Exercises F. 2–4 (9 May); or M. 10–12 or 2–4 (12 May); or W. 2–4 (14 May); or F. 2–4 (16 May); or W. 2–4 (21 May)

**HOMEOSTASIS**

Course Organiser: Dr R. H. S. Carpenter (email: rhsc1@cam.ac.uk)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures take place in the *Babbage Lecture Theatre*, on Tu. Th. F. 12, unless otherwise stated.**DR R. H. S. CARPENTER**

Introduction; Cellular Electrophysiology and Nerve. (Nine lectures, 9 Oct. – 26 Oct.)

**PROF. C. L-H. HUANG**

Muscle. (Five lectures, 30 Oct. – 8 Nov.)

**DR R. J. BARNES**

Heart and Circulation. (Nine lectures, 9 Nov. – 29 Nov.)

**Practical Work**

Experimental Physiology. M. 10–12 or 2–4 or W. 10–12 or F. 10–12 (unless otherwise stated in the Course Handbook)

**DR MICHAEL J. MASON**

Respiration. (Nine lectures, 17 Jan. – 5 Feb.)

**DR S. O. SAGE**

Fluids and Electrolytes. (Ten lectures, 7 Feb.–28 Feb.)

**DR MATTHEW J. MASON**

Digestion, Absorption and Storage. (Six lectures 29 Feb. – 13 Mar.)

**Practical Work**

The same continued.

**PROF. R. C. THOMAS**

Control of Metabolism. (Six lectures, 24 Apr.–6 May)

**Practical Work**

The same continued.

**MOLECULES IN MEDICAL SCIENCE**

Course Organiser: Dr P. H. Rubery (email: phr2@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst/courses.html>Unless stated otherwise all lectures take place in the *Babbage Lecture Theatre, New Museums Site*, on M. 12, Tu. Th. 9.**Introduction****DR P. H. RUBERY**

Introduction to the Course. (One lecture, Th. 4 Oct. at 12.00)

**Metabolism in health and disease****PROF. K. SIDDLE**

Prologue. Diabetes Mellitus as a Metabolic Disease. (Two lectures, 8–9 Oct.)

**DR M. K. HIGGINS**

Introduction to Macromolecules. Protein Structure and Enzyme Catalysis. (Six lectures, 11–23 Oct.)

**DR P. H. RUBERY**

Bioenergetics and Metabolism. (Eight lectures, 25 Oct.–12 Nov.)

**DR D. PEREIRA**

Nutrition. (Two lectures, 13–15 Nov.)

**PROF. R. F. IRVINE**

Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 19–27 Nov.)

**PROF. K. SIDDLE**

Epilogue. (One lecture, 29 Nov.)

**Experimental work and discussion; problem-based learning exercise***Department of Biochemistry, Downing Site*  
Detailed scheme in course handbook**Macromolecules in health and disease****DR T. R. HESKETH**

Prologue. Cancer as a Molecular Disease. (Two lectures, 17–21 Jan.)

**DR F. R. LIVESEY**

Organisation, Replication and Repair of Genomes. (Five lectures, 22–31 Jan.)

**DR N. M. STANDART**

Transcription, Translation and Control. (Five lectures, 4–12 Feb.)

**PROF. A. H. WYLLIE**

Control of Proliferation and Death in Cancer Cells. (Three lectures, 14–19 Feb.)

**DR M. K. HIGGINS**

Proteins and Molecular Recognition. (Two lectures, 21–25 Feb.)

**DR D. W. MACDONALD**

Genetics in Human and Animal Medicine. (Five lectures, 26 Feb.–4 Mar. and W. 12 (5 Mar.))

**PROF. A. H. WYLLIE**

Mesologue: Cancer Therapy (One lecture, 10 Mar.)

**Experimental work and discussion; problem-based learning exercise***Department of Biochemistry, Downing Site*  
The same continued**Macromolecules in health and disease****(continued)****DR C. SARGENT**

Genetics in Human and Animal Medicine (continued). (Four lectures, 24 Apr.–1 May)

**Experimental work and discussion; bioinformatics exercise***Department of Biochemistry, Downing Site*  
The same continued

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

MICHAELMAS 2007

LENT 2008

EASTER 2008

**VETERINARY ANATOMY AND PHYSIOLOGY**

(Veterinary Students)

Course Organiser: Dr D. R. J. Bainbridge (email: [db125@cam.ac.uk](mailto:db125@cam.ac.uk))Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures take place in the *Biffen Lecture Theatre, Department of Genetics*, on M. W. F. 9 unless otherwise statedDR D. R. J. BAINBRIDGE, DR D. J. CHIVERS AND DR S. BRAY  
Introduction (Three Lectures, 5, 8, 10, Oct.)DR D. R. J. BAINBRIDGE, DR J. BRACKENBURY, DR S. BRAY AND  
DR D. J. CHIVERSThe Locomotor System (Thirteen Lectures, 12, 15, 17, 22,  
24, M. 9 (29 Oct); M10 (29 Oct.), 31 Oct. 7, 12, 14,  
19, 21 Nov.)

DR D. R. J. BAINBRIDGE

The Nervous System (Two Lectures 26, 28 Nov.)

DR J. M. HOLMES

The Nervous System (continued). (Two lectures,  
16, 18 Jan.)DR D. R. J. BAINBRIDGE, DR S. J. BRAY AND DR J. M.  
HOLMESThe Cardiovascular System. (Five lectures, 21,  
23, 28, 30 Jan. 4 Feb.)

DR J. H. BRACKENBURY

The Respiratory System. (Two lectures, 6, 11  
Feb.)DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR J.  
GIBSONThe Digestive System. (Nine lectures, 13, 18, 20,  
25, 27 Feb. 3, 5, 10, 12 March.)**Practical Work**

The same continued.

DR C. ROBERTS AND MRS J. PEARSON

The Digestive System (continued). (Two  
lectures, 25, 28 Apr.)

DR D. R. J. BAINBRIDGE, DR S. J. BRAY

The Urinary System. (Three lectures, 30 Apr.  
5, 7 May)

DR J. M. HOLMES

Integumentary System. (One lecture, 9 May)

DR D. R. J. BAINBRIDGE

Review (One lecture, 12 May)

**Practical Work**

The same continued.

**Practical Work**Dissection of the domestic animals, examination of live  
animals, fresh viscera, radiographs, laboratory work  
and other activities. (Tu. and Th. 10–12 and F. 10–12  
or 2–4 and occasionally Tu. or Th. 2–4.)**INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE**

(All students: SECOND M.B. &amp; SECOND VET M.B. EXAMINATION)

Course Organiser: Dr M. A. Holmes (email: [mah1@cam.ac.uk](mailto:mah1@cam.ac.uk))Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Babbage Lecture Theatre*, on W. 12

DR M. A. HOLMES

Epidemiology, Risk, Methods, Screening, Inference and  
Causation. (Five lectures, 17, 24, 31 Oct., 7, 14 Nov.)

DR C. PALMER

Biostatistics; Estimating Population Measures. (Two  
lectures 21, 28 Nov.)

DR C. PALMER

Biostatistics (continued); Testing Hypotheses,  
Comparing Groups, Interpreting  
Research. (Three lectures, 23, 30 Jan.,  
6 Feb.)**MEDICAL SOCIOLOGY**

(Medical students: SECOND M.B. EXAMINATION)

Course Co-ordinator: Mr J. Adams (email: [jsa30@cam.ac.uk](mailto:jsa30@cam.ac.uk))Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Anatomy Lecture Theatre*, on M. 9

MR J. ADAMS

Medical Sociology. (Six lectures 8, 22, 29 Oct; 12, 19, 26  
Nov.)

(Revision lecture 25 Feb.)

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

MICHAELMAS 2007

LENT 2008

EASTER 2008

**PREPARING FOR PATIENTS A (First 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 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

DR J. LOMAS AND DR J. SILVERMAN

**Briefings.** (16 or 23 or 30 Oct. or 6 Nov.) 2–4pm *Anatomy Lecture Theatre***General Practitioner visits.** (23 Oct. or 1 or 6 or 13 or 15 or 20 or 22 or 27 Nov.) 2–5**General Practitioner visits.** (17 or 24 or 29 Jan. or 5 or 12 or 14 or 19 or 21 Feb.) 2–5

DR J. LOMAS AND DR J. SILVERMAN

**Review Sessions.** (29 Jan. or 11 or 12 or 18 or 19 or 25 or 26 Feb. or 3 Mar.) 2–4 *Mill Lane Lecture Room 6*

Students will be notified which sessions to attend.

**FARM ANIMAL HUSBANDRY****(Veterinary students: SECOND VET M.B. EXAMINATION)**

Course Organiser: Dr G. Pearce (email: gpp28@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, Department of Genetics* F. 9 (unless otherwise stated)

DR M. HOLMES AND OTHERS

(Six lectures, 19, 26 Oct. 9–23 Nov. and Th.10. 29 Nov.)

**Lectures:** *Biffen Lecture Theatre, Department of Genetics* F. 9, Tu. 2, Th. 9

MS A. SCHWABE AND OTHERS

(Eleven lectures, 25 Jan. 1, 8, 15, 19, 22, 26; Feb. 29, 6, 7, 11 Mar.)

**Practical Work** Tu. 2–413 Nov. (*Biffen Lecture Theatre*)**Practical Work** Tu. 2–45 Feb. (*Faculty and Department of Veterinary Medicine*)11 Mar. (*Biffen Lecture Theatre*)**CAL package**

Th. 2–4 18 Oct. or 25 Oct. 1 Nov. or 8 Nov. 15 Nov. or 22 Nov

**Small Animal Handling:** *Department of Veterinary Medicine*

Th. 2–4 18 Oct or 25 Oct. 1 Nov. or 8 Nov. 15 Nov. or 22 Nov.

Students will be advised which sessions to attend.

**PREPARING FOR THE VETERINARY PROFESSION (First Year Strand)****(Veterinary students: SECOND VET M.B. EXAMINATION)**

Course Organiser: Dr G. Pearce (email: gpp28@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Biffen Lecture Theatre, New Museums Site*, on Tu. 2

DR J. GIBSON, PROF. D. M. BROOM AND OTHERS

16, 23, 30 Oct., 6 Nov.

**Practical Work**

Th. 1.45–4.15 (Two sessions of 18 Oct. 1 Nov., 15 Nov. or 25 Oct., 8 Nov. or 22 Nov.)

**Practical Work**

Th. 1.45–4.15 Two sessions of 24 Jan., or 14 Feb.