

## 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 (8 Oct.) Dr D. Bainbridge, Dr D. Chivers, Mr M. Herrtage (Veterinary Students) *Biffen Lecture Theatre*  
W. 12 (8 Oct.) Dr D. Wood and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*

MICHAELMAS 2008

LENT 2009

EASTER 2009

#### FUNCTIONAL ARCHITECTURE OF THE BODY

(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 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 W. A. HARRIS AND DR R. E. J. DYBALL  
Course Aims/General Principles/Learning Objectives  
(One Lecture, 10 Oct.)

DR R. E. J. DYBALL  
Principles of the Musculo-skeletal system (One lecture, 15 Oct.)

DR M. N. S. HUNT  
Ethics Attitudes and Communication (One lecture, 17 Oct.)

DR T. MASSOUD  
Introduction to Clinical Imaging (One lecture, 20 Oct.)

MS M. SPEAR  
Principles of the Cardiovascular system (One lecture, 22 Oct.)

MS M. SPEAR  
Principles of the Lymphatic System and Breast (One lecture, 24 Oct.)

DR S. JONES  
Principles of the Nervous System (One lecture, 29 Oct)

DR S. JONES  
The Autonomic Nervous System (One lecture, 31 Oct.)

DR S. JONES  
Degeneration and Repair in the Peripheral Nervous System (One lecture, 5 Nov.)

DR P. SCHOFIELD  
Development of the Body Plan (One lecture, 14 Nov.)

DR P. SCHOFIELD  
Embryonic Folding, Somatogenesis and Segmentation (One lecture, 19 Nov.)

PROF. D. RICHES  
Posture and Locomotion (One lecture, 21 Nov.)

PROF. D. RICHES  
The Neck (One lecture, 26 Nov.) T.B.A.  
Formative MCQ (One lecture, 28 Nov.)

**Special Periods**

Clinical Demonstration. (5 Dec. 10–12) *Venue to be confirmed*

**Practical Work**

Dissection and Prosections\*. Times according to Options  
Allocation of Cadavers and Introduction to Anatomy: 8 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*

PROF. R. J. KEYNES  
Overview of the Cranial Nerves (One lecture, 16 Jan.)

PROF. R. J. KEYNES  
Clinical Applications of the Cranial Nerves (One lecture, 21 Jan.)

DR R. E. J. DYBALL  
The Ear (One lecture, 23 Jan.)

DR R. E. J. DYBALL  
The Larynx (One lecture, 28 Jan.)

DR K. LEWIS  
Craniofacial Development (One lecture, 30 Jan.)

PROF. D. RICHES  
Applied anatomy of the Thorax (One lecture, 11 Feb.)

DR S. BRAY  
Development of Body Cavities, Diaphragm, Lungs (One lecture, 18 Feb.)

DR S. BRAY  
Development of the Cardiovascular System (One lecture, 20 Feb.)

PROF. D. RICHES  
Applied anatomy of the Abdominal Cavity (One lecture, 25 Feb.)

DR S. BRAY  
Development of the Gut Tube and Derivatives (One lecture, 27 Feb.)

PROF. A. DIXON  
Medical Imaging of Thorax and Abdomen (One lecture, 4 Mar.)

DR R. H. WHITAKER  
The Inguinal Canal, Inguinal and Femoral Hernias (One lecture, 6 Mar.)

T.B.A.  
Formative MCQ: Approaching the 'Clinical' Essay (One lecture, 11 Mar.)

Clinical Demonstration. (13 Mar. 2–4) *William Harvey Lecture Theatre, Addenbrooke's*

Dissections and Prosections.\*

Anatomy of Procedures: The same continued.

**Lectures. W. F. 9***Anatomy Lecture Theatre*

DR R. H. WHITAKER  
Rectum and Anal Canal (One lecture, 24 Apr.)

DR R. H. WHITAKER  
Urinary Continence and Incontinence (One lecture, 29 April.)

DR P. SCHOFIELD  
Development of the Urogenital System: Hormonal and Genetic Co-ordination of Development (One lecture, 1 May.)

DR P. SCHOFIELD  
Development of the Urogenital System: Sex Determination and the Genital System (One lecture, 6 May.)

T.B.A.  
Formative Assessment (One lecture, 8 May.)

Dissections and Prosections.

Anatomy of Procedures: 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)**

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**HISTOLOGY**Course organiser: Dr T. Tiffert (email: [jtt1000@cam.ac.uk](mailto:jtt1000@cam.ac.uk))Further information may be obtained from the Faculty Web site 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 (10 Oct.); or M. 10–12 or 2–4 (13 Oct.); or W. 2–4 (15 Oct.); or F. 2–4 (17 Oct.); or W. 2–4 (22 Oct.)
2. Connective Tissue, Nerve and Neuromuscular Junction. F. 2–4 (24 Oct.); or M. 10–12 or 2–4 (27 Oct.); or W. 2–4 (29 Oct.); or F. 2–4 (31 Oct.); or W. 2–4 (5 Nov.)
3. Striated, Cardiac and Smooth Muscle. F. 2–4 (7 Nov.); or M. 10–12 or 2–4 (10 Nov.); or W. 2–4 (12 Nov.); or F. 2–4 (14 Nov.); or W. 2–4 (19 Nov.)
4. Vascular System and Blood. F. 2–4 (21 Nov.); or M. 10–12 or 2–4 (24 Nov.); or W. 2–4 (26 Nov.); or F. 2–4 (28 Nov.); or W. 2–4 (3 Dec.)

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

5. Epithelia and Skin. F. 2–4 (16 Jan.); or M. 10–12 or 2–4 (19 Jan.); or W. 2–4 (21 Jan.); or F. 2–4 (23 Jan.); or W. 2–4 (28 Jan)
6. Respiratory System. F. 2–4 (30 Jan.); or M. 10–12 or 2–4 (2 Feb.); or W. 2–4 (4 Feb.); or F. 2–4 (6 Feb.); or W. 2–4 (11 Feb.)
7. Urinary System and Adrenal Gland. F. 2–4 (13 Feb.); or M. 10–12 or 2–4 (16 Feb.); or W. 2–4 (18 Feb.); or F. 2–4 (20 Feb.); or W. 2–4 (25 Feb.)
8. Alimentary System. F. 2–4 (27 Feb.); or M. 10–12 or 2–4 (2 Mar.); or W. 2–4 (4 Mar.); or F. 2–4 (6 Mar.); or W. 2–4 (11 Mar.)

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

9. Liver, Pancreas and Salivary Glands. F. 2–4 (24 Apr.); or M. 10–12 or 2–4 (27 Apr.); or W. 2–4 (29 Apr.); or F. 2–4 (1 May); or W. 2–4 (6 May)
10. Thyroid, Parathyroid, Pituitary Gland and Revision. Exercises F. 2–4 (8 May); or M. 10–12 or 2–4 (11 May); or W. 2–4 (13 May); or F. 2–4 (15 May); or W. 2–4 (20 May)

**HOMEOSTASIS**Course Organiser: Dr C. J. Schwieneing (email: [ws30@cam.ac.uk](mailto:ws30@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 C. J. SCHWIENING AND PROF. R. C. THOMAS

Introduction: Cellular Electrophysiology and Nerve. (Nine lectures, 14 Oct.–31 Oct.)

PROF. C. L.-H. HUANG

Muscle. (Five lectures, 4 Nov.–13 Nov.)

DR R. J. BARNES

Heart and Circulation. (Nine lectures, 14 Nov.–4 Dec.)

**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, 15 Jan.–3 Feb.)

DR S. J. FRASER AND DR G. GUISSANI

Fluids and Electrolytes. (Ten lectures, 5 Feb.–26 Feb.)

DR MATTHEW J. MASON

Digestion, Absorption and Storage. (Six lectures 27 Feb.–12 Mar.)

**Practical Work**

The same continued.

PROF. R. C. THOMAS

Control of Metabolism. (Six lectures, 23 Apr.–5 May)

**Practical Work**

The same continued.

**MOLECULES IN MEDICAL SCIENCE**Course Organiser until 31-12-2008: Dr P. H. Rubery (email: [phr2@cam.ac.uk](mailto:phr2@cam.ac.uk))Course Organiser from 1-1-2009: Dr F. J. Livesey (email: [fjl1000@cam.ac.uk](mailto:fjl1000@cam.ac.uk))Further information may be obtained from the Faculty web site 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*, M. 12, Tu. Th. 9.

DR P. H. RUBERY

Introduction to the Course. (One lecture, Th. 9 Oct. at 12)

**Metabolism in health and disease**

PROF. K. SIDDLE

Prologue. Diabetes Mellitus as a Metabolic Disease. (Two lectures, 13–14 Oct.)

DR M. K. HIGGINS

Introduction to Macromolecules. Protein Structure and Enzyme Catalysis. (Six lectures, 16–28 Oct.)

DR J. G. GRIFFIN

Bioenergetics and Metabolism. (Eight lectures, 30 Oct.–17 Nov.)

DR D. PEREIRA

Nutrition. (Two lectures, 18–20 Nov.)

PROF. R. F. IRVINE

Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 24 Nov.–2 Dec.)

PROF. K. SIDDLE

Epilogue. (One lecture, 4 Dec.)

**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, 15–19 Jan.)

DR F. R. LIVESEY

Organisation, Replication and Repair of Genomes. (Five lectures, 20–29 Jan.)

DR E. MISKA

Transcription, Translation and Control. (Five lectures, 2–10 Feb.)

PROF. A. H. WYLLIE

Control of Proliferation and Death in Cancer Cells. (Three lectures, 12–17 Feb.)

DR M. K. HIGGINS

Proteins and Molecular Recognition. (Two lectures, 19–23 Feb.)

DR D. W. MACDONALD

Genetics in Human and Animal Medicine. (Five lectures, 24 Feb.–3 Mar. and W. 12 (4 Mar.))

PROF. A. H. WYLLIE

Mesologue: Cancer Therapy (One lecture, 9 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, 23–30 Apr.)

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

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

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**VETERINARY ANATOMY AND PHYSIOLOGY**

(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>All lectures take place in the *Biffen Lecture Theatre, Department of Genetics*, on M. W. F. 9 unless otherwise stated.

DR D. R. J. BAINBRIDGE, DR D. J. CHIVERS AND DR S. BRAY  
Introduction (Three Lectures, 10, 13, 15 Oct.)

DR D. R. J. BAINBRIDGE, DR J. BRACKENBURY, DR S. BRAY DR  
D. J. CHIVERS AND DR J. M. HOLMES  
The Locomotor System (Thirteen Lectures, 17, 20, 22, 27,  
29 Oct., M. 9 (3 Nov.); M. 10 (3 Nov.), 5 Nov. 12, 17,  
19, 24, 26 Nov.)

DR J. M. HOLMES  
The Nervous System (Two Lectures 1, 3 Dec.)

**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.)

DR J. M. HOLMES  
The Nervous System (continued). (Two lectures,  
14, 16 Jan.)

DR D. R. J. BAINBRIDGE, DR S. J. BRAY AND DR J. M.  
HOLMES  
The Cardiovascular System. (Five lectures, 19,  
21, 26, 28 Jan. 2 Feb.)

DR J. H. BRACKENBURY  
The Respiratory System. (Two lectures, 4, 9  
Feb.)

DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR J.  
GIBSON  
The Digestive System. (Nine lectures, 11, 16, 18,  
23, 25 Feb. 2, 4, 9, 11 March.)

**Practical Work**

The same continued.

DR C. ROBERTS AND MRS J. PEARSON  
The Digestive System (continued). (Two  
lectures, 24, 27 Apr.)

DR D. R. J. BAINBRIDGE, DR S. J. BRAY  
The Urinary System. (Three lectures, 29 Apr.  
4, 6 May)

DR J. M. HOLMES  
Integumentary System. (One lecture, 8 May)

DR D. R. J. BAINBRIDGE  
Review (One lecture, 11 May)

**Practical Work**

The same continued.

**INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE**

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

Course Organiser: Prof. K. T. Khaw (email: kk101@medschl.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. 4

PROF. K. T. KHAW, DR M. HOLMES, DR A. N. OTHER  
Epidemiology, Risk, Methods, Screening, Inference and  
Causation. (Four lectures, 21, 29 Oct., 5, 12 Nov.)

DR M. HOLMES  
Epidemiology (One lecture, 19 Nov.)

DR C. PALMER  
Biostatistics: Estimating Population Measures. (Two  
lectures 26 Nov., 3 Dec.)

DR C. PALMER  
Biostatistics (continued).; Testing Hypotheses,  
Comparing Groups, Interpreting  
Research. (Three lectures, 21, 28 Jan.,  
4 Feb.)

**SOCIAL CONTEXT OF HEALTH AND ILLNESS**

(Medical students: SECOND M.B. EXAMINATION)

Course Co-ordinator: Dr S. Cohn (email: simon.cohn@medschl.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* at W. 12

DR S. COHN  
Social Context of Health and Illness (Six lectures 15, 22,  
29 Oct; 12, 19, 26 Nov.) (Revision lecture 25 Feb.)  
(Two supplementary lectures 5 Nov., 3 Dec.)

**Seminars (Supervisions)**

Group 1: Th. 4–5 pm, 16, 23, 30 Oct; 6 Nov.  
Group 2: Th. 3–4 pm, 16, 23, 30 Oct; 6 Nov.  
Group 3: Th. 4–5 pm, 13, 20, 27 Nov; 4 Dec.  
Group 4: Th. 3–4 pm, 13, 20, 27 Nov; 4 Dec.

Students will be notified which seminars to attend.

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

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**PREPARING FOR PATIENTS A (First 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>

There are four strands to this course, which run over the three pre-clinical years of study

DR J. SILVERMAN

**Briefings.** (21, 28 Oct., 4, or 11 Nov.) 2–4pm *Physiology Lecture Theatre***General Practitioner visits.** (28 Oct., 6 or 11 or 18 or 20 or 25 or 27 Nov. or 2 Dec.) 2–5**General Practitioner visits.** (15 or 22 or 27 Jan. or 3 or 10 or 12 or 17 or 19 Feb.) 2–5

DR J. SILVERMAN

**Review Sessions.** (27 Jan. or 9 or 10 or 16 or 17 or 23 or 24 Feb. or 2 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 J. Gibson (email: [jsg1001@cam.ac.uk](mailto:jsg1001@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, 24, 31 Oct., 14, 21, 28 Nov. and Th. 10. 4 Dec.)

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

DR P. WATSON AND OTHERS

(Eleven lectures, 23, 30 Jan. 6, 13, 17, 20, 24, 27 Feb., 5, 6, 10 Mar.)

**Practical Work** Tu. 2–418 Nov. (*Biffen Lecture Theatre*)**Practical Work** Tu. 2–42 Feb. (*Department of Veterinary Medicine*)  
10 Mar. (*Biffen Lecture Theatre*)**CAL package**

Th. 2–4 23 Oct. or 30 Oct., 6 Nov. or 13 Nov., 20 Nov. or 27 November.

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

Th. 2–4 23 Oct. or 30 Oct., 6 Nov. or 13 Nov., 20 Nov. or 27 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 J. Gibson (email: [jsg1001@cam.ac.uk](mailto:jsg1001@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

21, 28 Oct., 4, 11 Nov.

**Practical Work**Th. 1.45–4.15 (Three sessions of 23 Oct. 6 Nov., 20 Nov. or 30 Oct., 13 Nov. or 27 Nov.) (*College of West Anglia*)**Practical Work**Th. 1.45–4.15 One session of 22 Jan., or 19 Feb. (*College of West Anglia*)