

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. 12 (6 Oct.) Dr D. Wood and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*

W. 11 (6 Oct.) Dr D. Bainbridge, Dr D. Chivers, Mr M. Herrtage (Veterinary Students) *Biffen Lecture Theatre*

MICHAELMAS 2004

LENT 2005

EASTER 2005

CELL BIOLOGY

Course Organiser: Dr C. Print email: cgp22@cam.ac.uk

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

This is an introductory course in Cell Biology for students who do not have A-level Biology

Lectures

DR C. PRINT

(Six lectures, 12 noon and 4 on 7, 8 and 12 Oct.) *Babbage Lecture Theatre*

FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

At the Anatomy School unless otherwise stated

Course Organiser: Dr I. G. Parkin E-mail: igp20@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>

Lectures. W. F. 9

Anatomy Lecture Theatre

DR I. G. PARKIN

Introduction (One lecture, 8 Oct.)

DR I. G. PARKIN

Principles of Body Systems (Musculoskeletal, Cardiovascular and Nervous) (Three lectures, 13, 20 Oct., 3 Nov.)

DR P. SCHOFIELD

Embryology: Organisation of Body Plan, Segmentation, Development of spinal column (Two lectures, 15, 27 Oct.)

DR M. N. S. HUNT

Ethics, Attitudes and Communication (One lecture, 22 Oct.)

DR R. H. WHITAKER

Autonomic Nervous System (One lecture, 5 Nov.)

DR I. G. PARKIN AND DR R. H. WHITAKER

Formative Mid Term Anatomy MCQ (12 Nov.)

PROF. D. RICHES

Musculo-Skeletal System: Posture, Gait and Locomotion (One lecture, 17 Nov.)

DR I. G. PARKIN

Principles of Lymphatic Drainage and Breast (One lecture, 24 Nov.)

DR I. G. PARKIN

Nerve Injuries. (One lecture, 26 Nov.)

DR I. G. PARKIN

Principles of Fascia. (One lecture, 1 Dec.)

Special Periods

Clinical Demonstration: (3 Dec. 10–12) *William Harvey Lecture Theatre, Addenbrooke's*

Practical Work

Dissection and Prosections*. Times according to Options Allocation of Cadavers and Introduction to Anatomy: 8 Oct. at 9.

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 C. BAKER

Embryology: Craniofacial development (One lecture, 21 Jan.)

DR R. H. WHITAKER

Principles of Cranial Nerves (Three lectures, 26, 28 Jan., 2 Feb.)

DR R. H. WHITAKER

The Ear (One lecture, 4 Feb.)

DR R. H. WHITAKER

The Larynx (One lecture, 9 Feb.)

DR S. BRAY

Embryology: Development of Body Cavities, Lungs, Diaphragm, Cardiovascular and G.I.T (Three lectures, 16, 23, Feb., 4 Mar.)

PROF. A. DIXON

Imaging (One lecture, 18 Feb.)

DR R. H. WHITAKER

Nerve Supply in Abdomen. Peritoneal Development (One lecture, 2 Mar.)

DR P. SCHOFIELD

Embryology: Urogenital development (One lecture, 9 Mar.)

DR I. G. PARKIN AND DR R. H. WHITAKER

Formative End Term Anatomy MCQ (11 Mar.)

DR I. G. PARKIN AND DR R. H. WHITAKER

Exam technique (One lecture, 16 Mar.)

Clinical Demonstration (18 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, 29 Apr.)

DR R. H. WHITAKER

Urinary Continence and Incontinence (One lecture, 4 May.)

DR R. H. WHITAKER

Abdominal Wall, Hernias and Inguinal Canal (One lecture, 6 May.)

DR P. SCHOFIELD

Embryology: Development of male and female genital organs (One lecture, 11 May.)

DR I. G. PARKIN

Anatomy Changing with Age (One lecture, 13 May.)

Dissections and Prosections

Anatomy of Procedures: The same continued.

* The Dissection Room is available to students between 10 and 12; and 2 and 4, and students should attend in accordance with their options.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2004

LENT 2005

EASTER 2005

HISTOLOGY

Course organiser: Dr T. Tiffert (email: 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 Department of Physiology**

1. Introduction to microscopy and cell structure F. 2-4 (8 Oct.); or M. 10-12 or 2-4 (11 Oct.); or W. 2-4 (13 Oct.); or F. 2-4 (15 Oct.); or W. 2-4 (20 Oct.)
2. Connective tissue, nerve and neuromuscular junction F. 2-4 (22 Oct.); or M. 10-12 or 2-4 (25 Oct.); or W. 2-4 (27 Oct.); or F. 2-4 (29 Oct.); or W. 2-4 (3 Nov.)
3. Striated, cardiac and smooth muscle F. 2-4 (5 Nov.); or M. 10-12 or 2-4 (8 Nov.); or W. 2-4 (10 Nov.); or F. 2-4 (12 Nov.); or W. 2-4 (17 Nov.)
4. Vascular system and blood F. 2-4 (19 Nov.); or M. 10-12 or 2-4 (22 Nov.); or W. 2-4 (24 Nov.); or F. 2-4 (26 Nov.); or W. 2-4 (1 Dec.)

Practical Work Department of Physiology

5. Epithelia and skin F. 2-4 (21 Jan.); or M. 10-12 or 2-4 (24 Jan.); or W. 2-4 (26 Jan.); or F. 2-4 (28 Jan.); or W. 2-4 (2 Feb.)
6. Respiratory system F. 2-4 (4 Feb.); or M. 10-12 or 2-4 (7 Feb.); or W. 2-4 (9 Feb.); or F. 2-4 (11 Feb.); or W. 2-4 (16 Feb.)
7. Urinary system and adrenal gland F. 2-4 (18 Feb.); or M. 10-12 or 2-4 (21 Feb.); or W. 2-4 (23 Feb.); or F. 2-4 (25 Feb.); or W. 2-4 (2 Mar.)
8. Alimentary system F. 2-4 (4 Mar.); or M. 10-12 or 2-4 (7 Mar.); or W. 2-4 (9 Mar.); or F. 2-4 (11 Mar.); or W. 2-4 (16 Mar.)

Practical Work Department of Physiology

9. Liver, pancreas and salivary glands F. 2-4 (29 Apr.); or M. 10-12 or 2-4 (2 May); or W. 2-4 (4 May); or F. 2-4 (6 May); or W. 2-4 (11 May)
10. Thyroid, parathyroid, pituitary gland and revision exercises F. 2-4 (13 May); or M. 10-12 or 2-4 (16 May); or W. 2-4 (18 May); or F. 2-4 (20 May); or W. 2-4 (25 May)

HOMEOSTASIS

Course Organiser: Dr C. Schwiening (email: cjs30@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 Tu. Th. F. 12, unless otherwise stated.***DR R. H. S. CARPENTER**

Introduction; Cellular electrophysiology and nerve (Seven lectures, 15 Oct.–29 Oct.)

DR C. L-H. HUANG

Muscle (Five lectures, 2 Nov.–11 Nov.)

DR R. J. BARNES

Heart and circulation (Nine lectures, 12 Nov.–2 Dec.)

Practical Work

Experimental Physiology M. 10-12 or 2-4 or W. 10-12 or F. 10-12

DR MICHAEL J. MASON

Respiration (Nine lectures, 20 Jan.–8 Feb.)

DR S. O. SAGE

Fluids and electrolytes (Ten lectures, 10 Feb.–3 Mar.)

DR MATTHEW J. MASON

Digestion, absorption and storage (Six lectures 4 Mar. – 17 Mar.)

Practical Work

The same continued.

PROF. R. C. THOMAS

Energy balance and growth (Four lectures, 28 Apr.–5 May)

DR M. P. MAHAUT-SMITH

Temperature control (Two lectures, 6, 10 May)

Practical Work

The same continued.

MOLECULES IN MEDICAL SCIENCE

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

*All lectures take place in the Babbage Lecture Theatre, New Museums Site, at M. 12, Tu. Th. 9***Introduction****DR P. H. RUBERY**

Introduction to the course. (One lecture, 11 Oct.)

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

Prologue. Diabetes mellitus as a metabolic disease. (Two lectures, 12–14 Oct.)

DR N. J. GAY

Protein structure and enzyme catalysis. (Five lectures, 18–26 Oct.)

DR P. H. RUBERY

Bioenergetics and metabolism. (Eight lectures, 28 Oct–15 Nov.)

DR M. O'CONNELL

Nutrition. (Two lectures, 16–18 Nov.)

PROF. R. F. IRVINE

Membrane dynamics and function; signalling by hormones (Five lectures, 22–30 Nov.)

PROF. K. SIDDLE

Epilogue (One lecture, 2 Dec.)

Macromolecules in health and disease**PROF. A. H. WYLLIE**

Prologue. Cancer as a molecular disease. (Two lectures, 20–24 Jan.)

DR S. BELL

Organisation, replication and repair of genome. (Five lectures, 25 Jan–1 Feb.)

DR A. M. TOLKOVSKY

Transcription, translation and control. (Five lectures, 3–14 Feb.)

DR N. J. GAY

Proteins in action: structure and function. (Two lectures, 15–17 Feb.)

PROF. A. H. WYLLIE

Control of proliferation and death in cancer cells (Three lectures, 21–24 Feb.)

DR D. BARALLE

Transmission of genetic inheritance. (Two lectures, 28 Feb.–1 Mar.)

DR D. W. MACDONALD

Genetics of complex diseases. (Three lectures, 3–8 Mar.)

PROF. A. H. WYLLIE

Mesologue. Cancer therapy. (One lecture, 14 Mar.)

Macromolecules in health and disease (continued)**DR D. BARALLE**

Experimental tools of molecular genetics. (One lecture, 28 Apr.)

DR C. SHAW-SMITH

Bringing classical and molecular genetics together. (Two lectures, 2–3 May)

DR C. SHAW-SMITH

Applications and implications of genome projects. (One lecture, 5 May)

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MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2004

LENT 2005

EASTER 2005

Experimental work and discussion: problem-based learning exercise.

Department of Biochemistry, Downing Site
Detailed scheme in course handbook

Experimental work and discussion: problem-based learning exercise.

Department of Biochemistry, Downing Site
The same continued.

Experimental work and discussion: bioinformatics exercise.

Department of Biochemistry, Downing Site
The same continued.

VETERINARY ANATOMY AND PHYSIOLOGY
(Veterinary Students)

Course Organiser: Dr D. R. J. Bainbridge (e-mail: 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>*All lectures take place in the Biffen Lecture Theatre, Department of Genetics***Lectures. M. W. F. 9.**

DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS
Introduction. (Three lectures, 8, 11, 13 Oct.)
DR J. M. HOLMES, DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS
The Locomotor System. (Thirteen lectures, 15 Oct–24 Nov.)
DR J. M. HOLMES
The Nervous System. (Four lectures, 29 Nov., 1 Dec., 16, 21, 24 Jan.)

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.)

Lectures. M. W. F. 9.

DR D. R. J. BAINBRIDGE AND DR J. M. HOLMES
The Cardiovascular System. (Five lectures, 26, 31 Jan., 2, 7, 9 Feb.)
DR J. H. BRACKENBURY AND DR D. R. J. BAINBRIDGE
The Respiratory System. (Two lectures, 14, 16 Feb.)
DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR A. N. OTHER
The Digestive System. (Eight lectures, 21, 23, 28 Feb., 2, 7, 9, 14, 16 Mar.)

Practical Work

The same continued.

Lectures. M. W. F. 9

DR D. J. CHIVERS AND DR A. N. OTHER
The Digestive System. (Four lectures, 29 Apr., 2, 4, 11 May)
DR D. R. J. BAINBRIDGE
Urinary System. (Three lectures, 13, 16, 18 May)
DR J. M. HOLMES
Integumentary System. (One lecture, 23 May)

Practical Work

The same continued.

INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE**(All students: SECOND M.B. & 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 Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures***Babbage Lecture Theatre*

W. 12 (Seven lectures, 20 Oct–1 Dec.)
DR K. T. KHAW
Epidemiology, risk, methods, screening, inference and Causation.
DR C. PALMER
Biostatistics; estimating population measures. (27 Oct., 1 Dec.)

W. 12 (Three lectures, 26 Jan., 2, 9 Feb.)

DR C. PALMER
Biostatistics cont.; testing hypotheses, comparing groups, interpreting research.

MEDICAL SOCIOLOGY**(Medical students: SECOND M.B. EXAMINATION)**

Course Co-ordinator: Dr T. Muncey (email: muncey@health-homerton.ac.uk)

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

M. 9 (Five lectures 11, 25, Oct; 8, 22, 29 Nov.)
DR T. MUNCEY/ DR J. ADAMS
Medical Sociology. (Four lectures)
MS D. LEEDER
Medical Sociology Interactive Package (One lecture, 29 Nov.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2004

LENT 2005

EASTER 2005

PREPARING FOR PATIENTS A (First Year Strand)**(Medical students: SECOND M.B. EXAMINATION)**Course Organiser: Dr J. Silverman (email: 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

DR M. HUNT AND DR J. SILVERMAN

Briefings. Tu. 2. 19 or 26 Oct, or 2 or 9 Nov. *Anatomy
Lecture Theatre***General Practitioner visits.** 2–5 26 Oct. or 4 or 9 or 16 or
18 or 23 or 25 or 30 Nov.**General Practitioner visits.** 2–5 20 or 27 Jan., or
1 or 8 or 15 or 17 or 22 or 24 Feb.

DR M. HUNT AND DR J. SILVERMAN

Review and Sessions. 2–4 1 or 14 or 15, or 21
or 22 or 28 Feb., or 1 Mar. or 7 Mar. *Mill
Lane Lecture Theatre Rooms 6 & 7*

Students will be notified which sessions to attend.

FARM ANIMAL HUSBANDRY**(Veterinary students: SECOND VET M.B. EXAMINATION)**Course Organiser: Dr J. S. Gibson (email: jsg1001@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:** *Biffen Lecture Theatre, Department of Genetics*

F. 9

DR J. GIBSON AND OTHERS

(Six lectures, 22 Oct.–26 Nov.)

Practical Work Tu. 2–416 Nov. (*Biffen Lecture Theatre*)**CAL package**Th. 2–4 21 Oct. or 28 Oct., 4 Nov or 11 Nov., 18 Nov. or
25 Nov.**Lectures:** *Biffen Lecture Theatre, Department of
Genetics*

F. 9, Tu. 2, Th. 9

DR J. GIBSON AND OTHERS

(Eleven lectures, 28 Jan., 4, 11, 18, 22, 25; Feb.,
1, 4, 10, 11, 15 Mar.)**Practical Work** Tu. 2–48 Feb. (*Faculty and Department of Veterinary
Medicine*)15 Mar. (*Biffen Lecture Theatre*)**PREPARING FOR THE VETERINARY PROFESSION (First Year Strand)****(Veterinary students: SECOND VET M.B. EXAMINATION)**Course Organisers: Dr J. S. Gibson (email: jsg1001@cam.ac.uk) Mrs C. Latham (email: cel29@cam.ac.uk)*Lectures will take place in the Biffen Lecture Theatre, New Museums Site*Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>**Lectures**

DR M. HOLMES, PROF. D. M. BROOM AND OTHERS

19, 26 Oct., 2, 9 Nov.

Practical WorkTh. 1.45–4.15 Two sessions of 21 Oct., 4 Nov., 18 Nov. or
28 Oct., 11 Nov. or 25 Nov.**Practical Work**Th. 1.45–4.15 Two sessions of 27 Jan., 10 Feb.
or 17 Feb. or 24 Feb.