

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. 11 (5 Oct.) Dr D. Bainbridge, Dr D. Chivers, Mr M. Herrtage (Veterinary Students) *Biffen Lecture Theatre*

W. 12 (5 Oct.) Dr D. Wood and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*

Th. 2 (6 Oct.) Dr D. MacDonald (All students) *Babbage Lecture Theatre*

MICHAELMAS 2005

LENT 2006

EASTER 2006

CELL BIOLOGY

Course Organiser: Dr B. Dunmore (email: bjd28@cam.ac.uk)

Further information may be obtained from the Faculty Website 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.

DR B. DUNMORE

(Six lectures, 12 noon and 4 on 6, 7 and 11 Oct. *Babbage Lecture Theatre*)

FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

Course Organiser: Dr I. G. Parkin (email: 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>

At the *Anatomy School* unless otherwise stated

Lectures. W. F. 9

Anatomy Lecture Theatre

DR I. G. PARKIN [Lec 6]

Principles of the Nervous System. (One lecture, 26 Oct.)

DR I. G. PARKIN [Lec 1]

Course Aims/General Principles, Learning. (One lecture, 7 Oct.)

DR I. G. PARKIN [Lec 2]

Overview of Bones, Joints and Muscles. (One lecture, 12 Oct.)

DR P. SCHOFIELD [Lecs 10 & 11]

Embryology: Organisation of Body Plan, Segmentation, Development of Spinal Column. (Two lectures, 16, 18 Nov.)

DR I. G. PARKIN [Lec 4]

Principles of the Cardiovascular System. (One lecture, 19 Oct.)

DR M. N. S. HUNT [Lec 3]

Ethics, Attitudes and Communication. (One lecture, 19 Oct.)

DR R. H. WHITAKER [Lec 7]

Autonomic Nervous System. (One lecture, 28 Oct.)

DR I. G. PARKIN AND DR R. H. WHITAKER [In between Lecs 5 & 10]

Formative Mid Term Anatomy MCQ. (11 Nov.)

PROF. D. RICHES [Lec 5]

Posture and Locomotion. (One lecture, 4 Nov.)

DR I. G. PARKIN [Lec 5]

Principles of Lymphatic Drainage and Breast. (One lecture, 21 Oct.)

DR I. G. PARKIN [Lec 12]

Nerve Injuries. (One lecture, 23 Nov.)

DR I. G. PARKIN [Lec 8]

Principles of Fascia. (One lecture, 2 Nov.)

Special Periods

Clinical Demonstration. (2 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. (5 Oct., 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 R. H. WHITAKER

Principles of Cranial Nerves. (Three lectures, 20, 25, 27 Jan.)

DR C. BAKER

Embryology: Craniofacial Development. (One lecture, 1 Feb.)

DR R. H. WHITAKER

The Ear. (One lecture, 3 Feb.)

DR R. H. WHITAKER

The Larynx. (One lecture, 8 Feb.)

DR S. BRAY

Embryology: Development of Body Cavities, Lungs, Diaphragm, Cardiovascular and G.I.T. (Three lectures, 15, 22, Feb., 3 Mar.)

PROF. A. DIXON

Imaging. (One lecture, 24 Feb.)

DR R. H. WHITAKER

Nerve Supply in Abdomen. Peritoneal Development. (One lecture, 1 Mar.)

DR P. SCHOFIELD

Embryology: Urogenital Development. (One lecture, 8 Mar.)

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

Formative End Term Anatomy MCQ. (One lecture, 10 Mar.)

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

Exam technique. (One lecture, 15 Mar.)

Clinical Demonstration (16 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, 28 Apr.)

DR R. H. WHITAKER

Urinary Continence and Incontinence. (One lecture, 3 May)

DR R. H. WHITAKER

Abdominal Wall, Hernias and Inguinal Canal. (One lecture, 5 May)

DR P. SCHOFIELD

Embryology: Development of Male and Female Genital Organs. (One lecture, 10 May)

DR I. G. PARKIN

Anatomy Changing with Age. (One lecture, 12 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 2005

LENT 2006

EASTER 2006

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 Department of Physiology

1. Introduction to Microscopy and Cell Structure. F. 2–4 (7 Oct.); or M. 10–12 or 2–4 (10 Oct.); or W. 2–4 (12 Oct.); or F. 2–4 (14 Oct.); or W. 2–4 (19 Oct.)
2. Connective Tissue, Nerve and Neuromuscular Junction. F. 2–4 (21 Oct.); or M. 10–12 or 2–4 (24 Oct.); or W. 2–4 (26 Oct.); or F. 2–4 (28 Oct.); or W. 2–4 (2 Nov.)
3. Striated, Cardiac and Smooth Muscle. F. 2–4 (4 Nov.); or M. 10–12 or 2–4 (7 Nov.); or W. 2–4 (9 Nov.); or F. 2–4 (11 Nov.); or W. 2–4 (16 Nov.)
4. Vascular system and blood. F. 2–4 (18 Nov.); or M. 10–12 or 2–4 (21 Nov.); or W. 2–4 (23 Nov.); or F. 2–4 (25 Nov.); or W. 2–4 (30 Nov.)

Practical Work Department of Physiology

5. Epithelia and Skin. F. 2–4 (20 Jan.); or M. 10–12 or 2–4 (23 Jan.); or W. 2–4 (25 Jan.); or F. 2–4 (27 Jan.); or W. 2–4 (1 Feb.)
6. Respiratory System. F. 2–4 (3 Feb.); or M. 10–12 or 2–4 (6 Feb.); or W. 2–4 (8 Feb.); or F. 2–4 (10 Feb.); or W. 2–4 (15 Feb.)
7. Urinary System and Adrenal Gland. F. 2–4 (17 Feb.); or M. 10–12 or 2–4 (20 Feb.); or W. 2–4 (22 Feb.); or F. 2–4 (24 Feb.); or W. 2–4 (1 Mar.)
8. Alimentary System. F. 2–4 (3 Mar.); or M. 10–12 or 2–4 (6 Mar.); or W. 2–4 (8 Mar.); or F. 2–4 (10 Mar.); or W. 2–4 (15 Mar.)

Practical Work Department of Physiology

9. Liver, Pancreas and Salivary Glands. F. 2–4 (28 Apr.); or M. 10–12 or 2–4 (1 May); or W. 2–4 (3 May); or F. 2–4 (5 May); or W. 2–4 (10 May)
10. Thyroid, Parathyroid, Pituitary Gland and Revision Exercises. F. 2–4 (12 May); or M. 10–12 or 2–4 (15 May); or W. 2–4 (17 May); or F. 2–4 (19 May); or W. 2–4 (24 May)

HOMEOSTASIS

Course Organiser: Dr C. Schwiening (email: cjs30@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 *Babbage Lecture Theatre* at Tu. Th. F. 12, unless otherwise stated.**PROF. R. C. THOMAS AND DR C. J. SCHWIENING**

Introduction; Cellular Electrophysiology and Nerve. (Seven lectures, 14–28 Oct.)

PROF. C. L-H. HUANG

Muscle. (Five lectures, 1–10 Nov.)

DR R. J. BARNES

Heart and Circulation. (Nine lectures, 11 Nov. – 1 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, 19 Jan.–7 Feb.)

DR S. O. SAGE

Fluids and Electrolytes. (Ten lectures, 9 Feb.–2 Mar.)

DR MATTHEW J. MASON

Digestion, Absorption and Storage. (Six lectures, 3–16 Mar.)

Practical Work

The same continued.

PROF. R. C. THOMAS

Energy Balance and Growth. (Four lectures, 27 Apr. – 4 May)

DR M. P. MAHAUT-SMITH

Temperature Control. (Two lectures, 5, 9 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.html>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, 10 Oct.)

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

Prologue. Diabetes Mellitus as a Metabolic Disease. (Two lectures, 11–13 Oct.)

DR N. J. GAY

Protein Structure and Enzyme Catalysis. (Five lectures, 17–25 Oct.)

DR P. H. RUBERY

Bioenergetics and Metabolism. (Eight lectures, 27 Oct. – 14 Nov.)

DR M. O'CONNELL

Nutrition. (Two lectures, 15–17 Nov.)

PROF. R. F. IRVINE

Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 21–29 Nov.)

PROF. K. SIDDLE

Epilogue. (One lecture, 1 Dec.)

Macromolecules in health and disease**DR T. R. HESKETH**

Prologue. Cancer as a Molecular Disease. (Two lectures, 19–23 Jan.)

DR S. BELL

Organisation, Replication and Repair of Genomes. (Five lectures, 24 Jan. – 2 Feb.)

DR N. M. STANDART

Transcription, Translation and Control. (Five lectures, 6–14 Feb.)

DR N. J. GAY

Proteins in Action: Structure and Function. (Two lectures, 16–20 Feb.)

PROF. A. H. WYLLIE

Control of Proliferation and Death in Cancer Cells. (Three lectures, 21–27 Feb.)

DR D. W. MACDONALD

Genetics in Human and Animal Medicine. (Five lectures, 28 Feb. – 7 Mar. and W. 12 (8 Mar.))

PROF. A. H. WYLLIE

Mesologue: Cancer Therapy. (One lecture, 13 Mar.)

Macromolecules in health and disease (continued)**DR D. BARALLE AND DR C. SHAW-SMITH**

Genetics in Human and Animal Medicine (continued). (Three lectures, 27 Apr.–2 May)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2005

LENT 2006

EASTER 2006

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 (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* at M. W. F. 9

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

Introduction. (Three lectures, 7, 10, 12 Oct.)

DR J. M. HOLMES, DR D. R. J. BAINBRIDGE AND DR D. J. CHIVERS

The Locomotor System. (Thirteen lectures, 14 Oct.–23 Nov.)

DR J. M. HOLMES

The Nervous System. (Two lectures, 28, 30 Nov.)

DR J. M. HOLMES

The Nervous System (continued). (Two lectures, 20, 23 Jan.)

DR D. R. J. BAINBRIDGE AND DR J. M. HOLMES

The Cardiovascular System. (Five lectures, 24, 25, 30 Jan., 1, 6, Feb.)

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

The Respiratory System. (Two lectures, 8, 13 Feb.)

DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR A. N. OTHER

The Digestive System. (Nine lectures, 15, 20, 22, 27 Feb., 1, 6, 8, 13, 15 Mar.)

DR D. J. CHIVERS AND DR A. N. OTHER

The Digestive System (continued). (Two lectures, 28 Apr., 1 May)

DR D. R. J. BAINBRIDGE

Urinary System. (Three lectures, 3, 10, 12 May)

DR J. M. HOLMES

Integumentary System. (One lecture, 15 May)

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.)

Practical Work

The same continued.

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 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

PROF. K. T. KHAW

Epidemiology, Risk, Methods, Screening, Inference and Causation. (Five lectures, 19 Oct. – 23 Nov.)

DR M. HOLMES

Epidemiology. (One lecture, 16 Nov.)

DR C. PALMER

Biostatistics; Estimating Population Measures. (One lecture, 30 Nov.)

DR C. PALMER

Biostatistics (continued); Testing Hypotheses, Comparing Groups, Interpreting Research. (Three lectures, 25 Jan., 1, 8 Feb.)

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 Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Anatomy Lecture Theatre* at M. 9

DR T. MUNCEY, DR J. ADAMS AND PROF. M. RICHARDS

Medical Sociology. (Six lectures 10, 24, 31 Oct.; 7, 21, 28 Nov.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2005

LENT 2006

EASTER 2006

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 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. (18 or 25 Oct., or 1 or 8 Nov.) Tu. 2 *Anatomy Lecture Theatre***General Practitioner visits.** (25 Oct. or 3 or 8 or 15 or 17 or 22 or 24 or 29 Nov.) 2–5**General Practitioner visits.** (19 or 26 or 31 Jan., or 7 or 14 or 16 or 21 or 23 Feb.) 2–5

DR M. HUNT AND DR J. SILVERMAN

Review Sessions. (31 Jan., or 13 or 14 or 20 or 21 or 27 or 28 Feb., or 5 Mar.) 2–4 *Mill Lane Lecture Room***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 Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Biffen Lecture Theatre*

DR J. GIBSON AND OTHERS

(Six lectures, 21 Oct. – 25 Nov.) F. 9

DR J. GIBSON AND OTHERS

(Eleven lectures, 27 Jan., 3, 10, 17, 21, 24, 28; Feb., 3, 9, 10, 14 Mar.) F. 9, Tu. 2, Th. 9

Practical Work.(15 Nov.) Tu. 2–4 *Biffen Lecture Theatre***Practical Work.**(7 Feb.) Tu. 2–4 *Department of Veterinary Medicine***CAL package.**

(20 Oct. or 27 Oct., 3 Nov. or 10 Nov., 17 Nov. or 24 Nov.) Th. 2–4

(14 Mar.) Tu. 2–4 *Biffen Lecture Theatre***Small Animal Handling.**(20 Oct. or 27 Oct., 3 Nov. or 10 Nov., 17 Nov. or 24 Nov.) Th. 2–4 *Department of Veterinary Medicine*

Students will be advised which sessions to attend.

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

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

Course Organisers: Dr J. S. Gibson (email: jsg1000@cam.ac.uk) and Mrs C. Latham (email: cel29@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* at Tu. 2

18, 25 Oct., 1, 8 Nov.

Practical Work

Th. 1.45–4.15 Two sessions out of 20 Oct., 3 Nov., 17 Nov. or 27 Oct., 10 Nov. or 24 Nov.

Practical Work

Th. 1.45–4.15 Two sessions of 26 Jan., or 16 Feb. or 23 Feb.