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. 12-1 (7 Oct.) DR D. MACDONALD, DR J. SILVERMAN, DR D. WOOD, (Medical Students) Anatomy Lecture Theatre W. 2-3 (7 Oct.) DR D. BAINBRIDGE, PROF. M. HERRTAGE, DR G. PEARCE (Veterinary Students) Biffen Lecture Theatre

MICHAELMAS 2009 **LENT 2010** EASTER 2010

FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

Course Organisers: Mr C. Constant (email: crc25@cam.ac.uk) and Dr C. Brassett (email: cb457@cam.ac.uk) Further information may be obtained from the Faculty Website at http://www.bio.cam.ac.uk/sbs/facbiol/myst.html

At the Anatomy School unless otherwise stated

Lectures W. F. 9

Anatomy Lecture Theatre

MR C. CONSTANT AND DR C. BRASSETT

Course Aims and General Principles (One lecture, 9 Oct.) MR C. CONSTANT

Introduction to the Limbs (One lecture, 14 Oct.) DR P. SCHOFIELD

Development of the Body Plan (One lecture, 16 Oct.) DR S. JONES

Principles of the Nervous System (One lecture, 21 Oct.) MS M. SPEAR

Principles of the Vascular System (One lecture, 23 Oct.) DR S. JONES

Degeneration and Repair in the Peripheral Nervous System (One lecture, 28 Oct.)

PROF. A. DIXON

Introduction to Imaging (One lecture, 30 Oct.) PROF D RICHES

Posture and Locomotion (One lecture, 4 Nov.)

No lectures on 6 and 11 Nov.

DR P. SCHOFIELD

Embryonic Folding, Somatogenesis and Segmentation (One lecture, 13 Nov.)

MR C. CONSTANT

The Vertebral Column (One lecture, 18 Nov.) DR C. BAKER

Craniofacial Development (One lecture, 20 Nov.) PROF. R. J. KEYNES

Overview of the Cranial Nerves (One lecture, 25 Nov.)

MR C. CONSTANT AND DR C. BRASSETT

Review and Preview (One lecture, 27 Nov.)

Clinical Demonstration (4 Dec. 10-12)

William Harvey Lecture Theatre, Addenbrooke's Hospital

Practical Work

Dissection Room.* Times according to Sets. Introduction and Essential Information: 7 Oct. at 9 or 10 according to Sets

Dissection Sessions, M. 10-12 and F. 2-4

Tu. 10-12 and Th. 10-12.

Applied Anatomy: W. 10-12 or 2-4 fortnightly

Lectures W. F. 9

Anatomy Lecture Theatre

PROF. R. J. KEYNES

Clinical Applications of the Cranial Nerves (One lecture, 15 Jan.)

DR C. BRASSETT

The Larynx (One lecture, 20 Jan.)

MS M. SPEAR

The Lymphatic System (One lecture, 22 Jan.) DR S. JONES

The Autonomic Nervous System (One lecture, 27 Jan.)

PROF. D. RICHES

The Neck (One lecture, 29 Jan.)

PROF S BRAY

Development of Body Cavities, Diaphragm, Lungs (One lecture, 3 Feb.)

PROF. S. BRAY

Development of the Cardiovascular System (One lecture, 5 Feb.)

PROF. D. RICHES

Applied Anatomy of the Thorax (One lecture. 10 Feb.)

PROF. S. BRAY

Development of the Gut Tube and Derivatives (One lecture, 12 Feb.)

DR C. BRASSETT

Applied Anatomy of the Abdominal Wall (One lecture, 17 Feb.)

PROF. D. RICHES

Applied Anatomy of the Abdominal Cavity (One lecture, 19 Feb.)

DR P. BEARCROFT

Medical Imaging of the Thorax and Abdomen (One lecture, 24 Feb.)

MR C. CONSTANT AND DR C. BRASSETT

Preparing for the Tripos (One lecture, 26 Feb.)

Clinical Demonstration (4 Mar. 2-4)

William Harvey Lecture Theatre, Addenbrooke's Hospital

Practical Work

Dissection Sessions.*

Applied Anatomy: The same continued.

Lectures W. F. 9

Anatomy Lecture Theatre

Applied Anatomy of the Pelvis (One lecture, 23 Apr.)

DR R. H. WHITAKER

Continence Mechanisms (One lecture, 28 Apr.)

DR P. SCHOFIELD

Development of the Urogenital System:

Hormonal and Genetic Co-ordination of Development (One lecture, 30 Apr.)

DR P. SCHOFIELD

Development of the Urogenital System: Sex Determination and the Genital System (One lecture, 5 May)

MR C. CONSTANT AND DR C. BRASSETT Final Overview (One lecture, 7 May)

Practical Work

Dissection Sessions.*

Applied Anatomy: The same continued.

^{*} The Dissection Room is open to students from 10-12 M. Tu. Th.; and 2-4 F., and students should attend in accordance with their Sets.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2009 LENT 2010 EASTER 2010

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/

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 (9 Oct.); *or* M. 10–12 *or* 2–4 (12 Oct.); *or* W. 2–4 (14 Oct.); or F. 2–4 (16 Oct.); or W. 2–4 (21 Oct.)

2. Connective Tissue, Nerve and Neuromuscular Junction. F. 2-4 (23 Oct.); or M. 10-12 or 2-4 (26 Oct.); or W. 2–4 (28 Oct.); or F. 2–4 (30 Oct.); or W. 2–4 (4 Nov.)

3. Striated, Cardiac and Smooth Muscle. F. 2-4 (6 Nov.); or M. 10–12 or 2–4 (9 Nov.); or W. 2–4 (11 Nov.); or F. 2–4 (13 Nov.); or W. 2–4 (18 Nov.)

4. Vascular System and Blood. F. 2–4 (20 Nov.); or M. 10–12 or 2–4 (23 Nov.); or W. 2–4 (25 Nov.); or F. 2-4 (27 Nov.); or W. 2-4 (2 Dec.)

Practical Work: Histology Classroom, Physiology Building

5. Epithelia and Skin. F. 2–4 (15 Jan.); or M. 10–12 or 2–4 (18 Jan.); or W. 2–4 (20 Jan.); or F. 2–4 (22 Jan.); or W. 2–4 (27 Jan)

6. Respiratory System. F. 2–4 (29 Jan.); or M. 10-12 or 2-4 (1 Feb.); or W. 2-4 (3 Feb.); or F. 2–4 (5 Feb.); or W. 2–4 (10 Feb.)

7. Urinary System and Adrenal Gland. F. 2–4 (12 Feb.); or M. 10–12 or 2–4 (15 Feb.); or W. 2–4 (17 Feb.); or F. 2–4 (19 Feb.); or W. 2–4 (24 Feb.)

8. Alimentary System. F. 2–4 (26 Feb.); or M. 10-12 or 2-4 (1 Mar.); or W. 2-4 (3 Mar.); or F. 2-4 (5 Mar.); or W. 2-4 (10 Mar.)

Practical Work: Histology Classroom,

Physiology Building
9. Liver, Pancreas and Salivary Glands, F. 2–4 (23 Apr.); or M. 10–12 or 2–4 (26 Apr.); or W. 2–4 (28 Apr.); or F. 2–4 (30 Apr.); or W. 2-4 (5 May)

10. Thyroid, Parathyroid, Pituitary Gland and Revision. Exercises F. 2–4 (7 May); or M. 10–12 or 2–4 (10 May); or W. 2–4 (12 May); or F. 2–4 (14 May); or W. 2–4 (19 May)

HOMEOSTASIS

Course Organiser: Dr C. J. Schwieneing (email: cjs30@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 Tu. Th. F. 12, unless otherwise stated.

DR C. J. SCHWIENING AND PROF. R. C. THOMAS Introduction; Cellular Electrophysiology and Nerve. (Nine lectures, 13 Oct. – 30 Oct.)

PROF. C. L-H. HUANG

Muscle. (Five lectures, 3 Nov. - 12 Nov.)

DR R. J. BARNES

Heart and Circulation. (Nine lectures, 13 Nov. - 3 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 I MASON

Respiration. (Nine lectures, 14 Jan. - 2 Feb.) DR J. FRASER AND DR D. GIUSSANI

Fluids and Electrolytes. (Ten lectures, 4 Feb. -25 Feb.)

DR MATTHEW J. MASON

Digestion, Absorption and Storage. (Six lectures 26 Feb. – 11 Mar.)

Practical Work

The same continued.

PROF. R. C. THOMAS

Control of Metabolism. (Six lectures, 22 Apr. 4 May)

Practical Work

The same continued

MOLECULES IN MEDICAL SCIENCE

Course Organiser: Dr F. J. Livesey (mail: fjl1000@cam.ac.uk)

Further information may be obtained from the Faculty Website at http://www.bio.cam.ac.uk/sbs/facbiol/mvst/

Unless stated otherwise all lectures take place in the Babbage Lecture Theatre, New Museums Site, M. 12, Tu. Th. 9.

Introduction

DR F. J. LIVESEY

Introduction to the Course. (One lecture, Th. 8 Oct. at 12.00)

Metabolism in health and disease

PROF. K. SIDDLE

Prologue. Diabetes Mellitus as a Metabolic Disease. (Two lectures, 12–13 Oct.)

DR M. K. HIGGINS

Introduction to Macromolecules. Protein Structure and Enzyme Catalysis, (Six lectures, 15-27 Oct.) DR J. L. GRIFFIN

Bioenergetics and Metabolism. (Eight lectures, 29 Oct.-16 Nov.)

DR D. PEREIRA Nutrition. (Two lectures, 17–19 Nov.)

PROF. R. F. IRVINE

Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 23 Nov.-1 Dec.) PROF. K. SIDDLE

Epilogue. (One lecture, 3 Dec.)

Macromolecules in health and disease

DR T. R. HESKETH

Prologue. Cancer as a Molecular Disease. (Two lectures, 14-18 Jan.)

DR F. J. LIVESEY

Organisation, Replication and Repair of Genomes, (Five lectures, 19-28 Jan.) DR E. MISKA

Transcription, Translation and Control. (Five lectures, 1–9 Feb.)

PROF. A. H. WYLLIE
Control of Proliferation and Death in Cancer Cells. (Three lectures, 11–16 Feb.)

DR M. K. HIGGINS

Proteins and Molecular Recognition. (Two lectures, 18-22 Feb.)

DR D. W. MACDONALD

Genetics in Human and Animal Medicine. (Five lectures, 23 Feb.-3 Mar. note W. 12 (3 Mar.))

PROF. A. H. WYLLIE

Mesologue: Cancer Therapy (One lecture, 8 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, 22-29 Apr.)

Experimental work and discussion: bioinformatics exercise

Department of Biochemistry, Downing Site The same continued. Bioinformatics in Genetics

Experimental work and discussion; problem-based learning exercise

Department of Biochemistry, Downing Site Detailed scheme in course handbook

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2009 LENT 2010 EASTER 2010

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/myst.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, 9, 12, 14 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, 16, 19, 21, 26, 28 Oct., M. 9 (2 Nov.); M. 10 (2 Nov.), 4 Nov. 11, 16, 18, 23, 25 Nov.)

DR J. M. HOLMES

The Nervous System (Two Lectures 30 Nov., 2 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, 13, 15 Jan.)

DR D. R. J. BAINBRIDGE, DR S. J. BRAY AND DR J. M. HOLMES

The Cardiovascular System. (Five lectures, 18, 20, 25, 27 Jan. 1 Feb.)

DR J. H. BRACKENBURY

The Respiratory System, (Two lectures, 3, 8 Feb)

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

The Digestive System. (Nine lectures, 10, 15, 17, 22, 24 Feb. 1, 3, 8, 10 March.)

Practical Work

The same continued.

DR C. ROBERTS AND MRS J. PEARSON The Digestive System (continued). (Two lectures, 23, 26 Apr.) DR D. R. J. BAINBRIDGE, DR S. J. BRAY The Urinary System. (Three lectures, 28 Apr. 3, 5 May) DR I M HOLMES

Integumentary System. (One lecture, 7 May) DR D R I BAINBRIDGE

Review (One lecture, 10 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 Website at http://www.bio.cam.ac.uk/sbs/facbiol/myst.html

All lectures will be held in the Babbage Lecture Theatre, on W. 4

PROF. K. T. KHAW, DR M. HOLMES

Epidemiology, Risk, Methods, Screening, Inference and Causation. (Four lectures, 21, 28 Oct., 4, 11 Nov.) DR M. HOLMES

Epidemiology (One lecture, 18 Nov.)

DR C. PALMER

Biostatistics; Estimating Population Measures. (Two lectures 25 Nov., 3=2 Dec.)

DR C. PALMER

Biostatistics (continued).; Testing Hypotheses, Comparing Groups, Interpreting Research. (Three lectures, 20, 27 Jan., 3 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

Social Context of Health and Illness (Six lectures 14, 21, 28 Oct; 11, 18, 25 Nov.) (Revision lecture 24 Feb.) (Two supplementary lectures 4 Nov., 2 Dec.)

Seminars (Supervisions)

Group 1: Thu. 4-5 pm, 15, 22, 29 Oct.; 5 Nov. Group 2: Thu. 3-4 pm, 15, 22, 29 Oct.; 5 Nov.

Group 3: Thu. 4-5 pm, 12, 19, 26 Nov.; 3 Dec.

Group 4: Thu. 3–4 pm, 12, 19, 26 Nov.; 3 Dec.

Students will be notified which seminars to attend.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2009 LENT 2010 EASTER 2010

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. SILVERMAN

Briefings. (20, 27 Oct., 3, or 10 Nov.) 2–4pm *Anatomy Lecture Theatre*

General Practitioner visits. (27 Oct., 5 or 10 or 17 or 19 or 24 or 26 Nov. or 1 Dec.) 2–5

General Practitioner visits. (14 *or* 21 *or* 26 Jan. *or* 2 *or* 9 *or* 11 *or* 16 *or* 18 Feb.) 2–5

DR I SILVERMAN

Review Sessions. (26 Jan. or 8 or 9 or 15 or 16 or 22 or 23 Feb. or 1 Mar.) 2–4 Mill Lane Lecture Room 6

Students will be notified which sessions to attend.

FARM ANIMAL HUSBANDRY and PREPARING FOR THE VETERINARY PROFESSION (First Year Strand)

To be called "Principles of Animal Management"

(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 take place in the Biffen Lecture Theatre, Department of Genetics, New Museums Site, at Tu. 2, 3 or 4

Lectures: Tu. 2, 3, 4 Biffen Lecture Theatre

TO BE CONFIRMED
(Seventeen lectures, 2–413 Oct., 2–5 20 Oct., 2–4 27 Oct., 3, 10, 17, 24 Nov. and 1 Dec.)

Practical Work or Small Animal Handling

Th. 2–5 Department of Veterinary Medicine or Milton Campus WAU (Six sessions, Th. 2–5 22, 29 Oct., 5, 12, 19, 26 Nov.)

Detailed scheme in course handbook Students will be advised which sessions to attend Lectures: Tu. 2, 4 Biffen Lecture Theatre

TO BE CONFIRMED (Two lectures, 4–5 19, 26 Jan.)

No lectures on 2 Feb.

TO BE CONFIRMED (Ten lectures, 2–3 and 4–5 9, 16, 23, Feb., 2, 9 Mar.)

Practical Work, Small Animal Handling or CAL Package

Th. 2–5 or Tu. 2–5 *Department of Veterinary Medicine* (Five sessions, Th. 2–5 21, 28 Jan., 11, 18, 25 Feb., 4 Mar.)

Department of Veterinary Medicine (One session, Tu. 2–5 2 Feb.)

Milton Campus WAU (Seven sessions, Th. 2–5 21, 28 Jan., 11, 18, 25 Feb., 4, 11 Mar.)

The same continued.