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 (7 Oct.) Professor Sir Keith Peters and Dr A. L. R. Findlay (Medical Students) *Anatomy Lecture Theatre* W. 12 (7 Oct.) Mr J. Grandage and Professor L. B. Jeffcott (Veterinary Students) *Biffen Lecture Theatre*

MICHAELMAS 1998 LENT 1999 EASTER 1999

ANATOMY (Medical Students)

At the Anatomy School unless otherwise stated

Course Organiser: Dr R. E. J. Dyball E-mail: red1000@cus. cam. ac. uk

Lectures. M. F. 9

DR I. G. PARKIN

Introduction and Course Aims (One lecture, 9 Oct.)
PROF. M. H. JOHNSON

Ethics and Attitudes in Anatomy (One lecture, 12 Oct.) DR I. G. PARKIN

Principles of Body Systems (Four lectures, 16, 19, 23 Oct., 16 Nov.)

DR S. EDGLEY

Limbs (Four lectures, 26, 30 Oct., 2, 6 Nov.)

DR I. G. PARKIN

Vertebral Column, Posture, Gait and Nerve Injuries (Two lectures, 20, 27 Nov.)

MR R H WHITAKER

Lymph Drainage and Breast. Thyroid Gland (Two lectures, 23, 30 Nov.)

Special Periods

PROF. M. H. JOHNSON, DR R. J. KEYNES AND OTHERS Basic Sciences in Clinical Problems W. 9 (One Symposium, 14 Oct.)

DR I. G. PARKIN

Clinical Demonstration. 3 Dec. 10-12 or 2-4

Practical Work

Dissection and Prosections*. Times according to

options.

Allocation of Places. 7 Oct. at 10 Introduction. 8 Oct. 10–12 or 9 Oct. 2–4.

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

Lectures. M. F. 9

MR R. H. WHITAKER

Cranial Cavity and Nerves (Two lectures, 15, 18 Jan.)

DR S. J. BRAY

Embryology and Body Form: Head, Thorax and Abdomen (Four lectures, 22, 25 Jan., 15, 22 Feb.)

DR I. G. PARKIN

Upper Respiratory and Digestive Systems (Five lectures, 29 Jan., 1, 5 Feb., 1, 5 Mar.)

DR G. J. BURTON

Lower Respiratory and Cardiovascular Systems (Two lectures, 19, 26 Feb.)

MR R. H. WHITAKER

Urinary System (One lecture, 8 Mar.)

Special Periods

DR I. G. PARKIN, DR R. J. BARNES, DR N. CARY

AND DR L. SHAPIRO Coronary Arterial Disease W. 9 (One

Symposium, 24 Feb.)

DR I. G. PARKIN

Clinical Demonstration. 12 Mar. 2-4

Practical Work

Dissection and Prosections*

Anatomy of Procedures: The same continued

Lectures. M. F. 9

MR R. H. WHITAKER

Urinary and Faecal Continence. Male Reproductive System (Three lectures,

23, 26, 30 Apr.)

DR I. G. PARKIN

Female Reproductive System. Anterior Abdominal Wall and Inguinal Region (Three lectures, 3, 7, 10 May)

Dissection and Prosection*

Anatomy of Procedures: The same continued

Practical Work

^{* =} 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 1998 LENT 1999 EASTER 1999

VETERINARY ANATOMY (Veterinary Students)

In the Biffen Lecture Theatre, Department of Genetics, unless otherwise stated

Course Organiser: Mr J. Grandage E-mail: jg3@mole.bio. cam. ac. uk

Lectures. M. W. F. 9

DR D. J. CHIVERS, MR J. GRANDAGE AND PROF. L. B. JEFFCOTT

Introduction to the Veterinary Course W. 12 (One lecture, 7 Oct.)

Domestic Animals in Perspective (One lecture, 9 Oct.)
(DJC)

Introduction to Anatomy (One lecture, 12 Oct.) (JG) DR J. H. BRACKENBURY, DR D. J. CHIVERS, MR J. GRANDAGE AND DR J. M. HOLMES

The Locomotor System (Twelve lectures, 14, 16, 19, 21, 23, 26, 28, 30 Oct., 9, 11, 13, 16 Nov.)

PROF. W. A. HARRIS, DR P. SCHOFIELD AND DR D. TANNAHILL Developmental Biology (Four lectures 2, 4, 6, 18 Nov.) DR J. M. HOLMES

The Nervous System (Six lectures, 20, 23, 25, 27, 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 (In the Veterinary Dissecting Room and other venues)

Lectures. M. W. F. 9

DR J. M. HOLMES

The Nervous System (continued – two lectures, 15, 18 Jan.)

DR S. J. BRAY, DR J. H. BRACKENBURY, MR J. GRANDAGE AND DR J. M. HOLMES

The Cardiovascular System (Seven lectures, 20, 22, 27, 29 Jan., 1, 3, 5 Feb.)

DR J. H. BRACKENBURY

The Respiratory System (Four lectures, 8, 10, 15, 17 Feb.)

DR D. J. CHIVERS

The Digestive System (Five lectures, 22, 24 Feb., 1, 3, 8 Mar.)

Practical Work

The same continued

Lectures. M. W. F. 9

DR D. J. CHIVERS

Digestive System (continued – three lectures, 23, 26, 28 Apr.)

DR S. J. BRAY AND MR J. GRANDAGE The Urinary System (Three lectures, 3, 5, 10 May)

Practical Work

The same continued

SECOND M.B. EXAMINATION

POPULATION SCIENCES

Course organiser: Dr T. Davies E-mail: twd10@medschl.cam.ac.uk

Lectures

M. 12 (9, 16, 23, 30 Nov.)
F. 12 (13, 20, 27 Nov., 4 Dec.)
Department of Anatomy Lecture Theatre
DR T. W. DAVIES AND INVITED LECTURERS

Lectures

M. 12 (18, 25 Jan., 1, 8, 15, 22 Feb., 1, 8 Mar.) F. 12 (15, 22, 29 Jan., 5, 12, 19, 26 Feb., 5 Mar.)

SECOND VET.M.B. EXAMINATION

ANIMAL HUSBANDRY, AGRICULTURAL ECONOMICS AND ANIMAL BEHAVIOUR

(Veterinary Students)

Lectures

DR S. S. LLOYD, *DR M. A. HOLMES, DR C. J. C. PHILLIPS AND OTHERS

Animal Husbandry and Agricultural Economics (Twelve lectures). M. 12 (26 Oct., 2, 9, 16, 23, 30 Nov.)
F. 12 (30 Oct., 6, 13, 20, 27 Nov., 4 Dec.)
Biffen Lecture Theatre

Lectures

*PROF. D. M. BROOM Animal Behaviour (Ten lectures). M. 12 (18, 25 Jan., 1, 8, 15 Feb.) F. 12 (15, 22, 29 Jan., 5, 12 Feb.) Biffen Lecture Theatre

ANIMAL HANDLING AND HUSBANDRY (Veterinary Students)

All first year veterinary students are strongly advised to attend the practical course in Animal Handling and Husbandry held at the *Department of Clinical Veterinary Medicine* from M. 7 Dec. to Th. 10 Dec. 1998. There is also the opportunity to attend a two-week course in Livestock Management at the Berkshire College of Agriculture during the summer vacation.

 $^{^{*}}$ Course Organisers. Dr Holmes telephone no. 37636 or 37632, Professor Broom telephone no. 37697 or 37632.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 1998 LENT 1999 EASTER 1999

BIOCHEMISTRY

Course Co-ordinator: Dr P. H. Rubery E-mail: phr2@cam.ac.uk

Biochemistry

Lectures. Tu. Th. 9, S. 10.30 Department of Physiology DR A. R. C. RAINE

Macromolecules of life: how proteins and enzymes work (Eleven lectures, 8–31 Oct.)

DR P. H. RUBERY

Carbohydrate and lipid metabolism; interconversion of molecules; breakdown, build-up and integrated control (Nine lectures, 3–21 Nov.)

DR I. ARKIN

Membranes and transmembrane signalling (Four lectures, 24 Nov.–1 Dec.)

Practical Work Department of Genetics, top floor M. or Tu. or W. or Th. or F. 10 (Four hours)

Biochemistry

Lectures. Tu. Th. 9, S. 10.30 Department of Physiology unless otherwise stated DR C. J. R. THORNE

Bioenergetics: energy from metabolism (Four lectures, 14–21 Jan.)

The metabolism of several important molecules that contain nitrogen (Four lectures, 23–30 Jan.)

Nutrition: foods, fuels and their fate (Three lectures, 2–6 Feb., **Medical Students**)

MRS P. J. WATSON

Department of Biochemistry, Downing Site building

Veterinary nutrition (Three lectures, 2–6 Feb., Veterinary Students)

DR N. M. STANDART

The genetic code: its molecular nature, creation and expression as protein (Five lectures, Feb. 9–18)

DR R. J. JACKSON

The control of gene expression: how this allows life as we know it (Four lectures, 20–27 Feb.)

DR I. ARKIN

Membrane biogenesis and the way proteins cross the membrane barriers (Four lectures, 2–9 Mar.)

Practical Work *Department of Genetics, top floor* The same continued

Medical Genetics

Lectures. Tu. Th. 9, S. 10.30 Department of Physiology unless otherwise stated DR J. BARRETT, DR D. M. CARRINGTON AND DR D. W. MacDONALD

Medical and biochemical genetics (Twelve lectures, 22 Apr.–8 May; some of these lectures, for **Veterinary Students**, will be held in the *Department of Biochemistry*, *Downing Site Building*)

Practical Work Department of Genetics, top floor

The same continued

PATHOLOGY

(Medical and Veterinary Students who previously offered Physiology in Natural Sciences Tripos Part IA)
The timetable for Pathology is given under MVST Part IB, (page 177)

PHYSIOLOGY

Course organizer: Dr R. H. S. Carpenter E-mail: rhsc1@cam.ac.uk

Lectures. Tu. Th. S. 12 Babbage Lecture Theatre DR R. H. S. CARPENTER

Cellular electrophysiology and nerve (Eight lectures, 8–24 Oct.)

DR C. L-H. HUANG

Physiology of muscle (Six lectures, 27 Oct.–7 Nov.) DR R. J. BARNES

Cardiovascular system and autonomic nervous system (Ten lectures, 10 Nov.–1 Dec.)

Practical Work

Experimental physiology. M. or W. or F. 10–12 (1) or M. 2–4 (5)

The first two weeks, Experimental classes will last for three hours.

Histology. M. 10-12 or 2-4 or W. 2-4 or F. 2-4

Lectures. Tu. Th. S. 12 Babbage Lecture Theatre

DR R. L. TAPP

Breathing and blood gases (Nine lectures, 14 Jan.–2 Feb.)

DR J. W. FAWCETT

Renal Physiology and body fluid homeostasis (Eleven lectures, 4–27 Feb.)

DR M. P. MAHAUT-SMITH

Temperature regulation and the control of body weight (Four lectures, 2–9 Mar.)

Practical Work

The same continued

Lectures. Tu. Th. 12 Babbage Lecture Theatre

DR R. L. TAPP

Digestion (Seven lectures, 22 Apr.–13 May)

Practical Work

The same continued

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB

MICHAELMAS 1998 LENT 1999 EASTER 1999

ANATOMY (Medical Students)

Tu. Th. 9 at the Anatomy School, M. W. F. 9 in the Physiology Lecture Theatre

Course Organiser: Dr R. E. J. Dyball Email: red1000@cus.cam.ac.uk

Lectures

MR R. WHITAKER AND DR I. G. PARKIN Functional and Applied Anatomy of Head and Neck (Six lectures, 8, 15, 22, 27 Oct., 5, 12 Nov.)

PROF. M. H. JOHNSON AND OTHERS

Reproductive Biology – A Joint Course of Anatomy and Physiology, see page 164.

DR R. J. KEYNES

Development of Face, Head and Neck. (Four lectures, 13, 20, 29 Oct, 3 Nov.)

PROF. W. A. HARRIS

Development of Ear and Eye (Two lectures, 19, 26 Nov.)

Special Periods

Clinical Demonstration. Head and Neck. 3 Dec. 10–12 or 2–4, at Clinical School, Hills Road

Practical Work

Head and Neck Prosections* Allocation of places. 7 Oct. at 2 Laboratory Classes. M. 10–12 or 2–4

Lectures

Neurobiology – A Joint Course of Anatomy and Physiology, see page 162.

Special Periods

Clinical Demonstration. Neurological Disorders. 11 Mar. 10–12 or 2–4 at Clinical School, Hills Road

Practical Work

Examination and Microscopy of the Brain Laboratory classes. M. 10–12 or 2–4 Th. 2–4 or F. 10–12

Lectures

Neurobiology – A Joint Course of Anatomy and Physiology, see page 162.

Practical Work

Class times as for Lent Term

VETERINARY ANATOMY (Veterinary Students)

In the Biffen Lecture Theatre, Department of Genetics unless otherwise stated

Course Organiser: Mr J. Grandage Email: jg3@mole.bio.cam.ac.uk

Lectures. Tu. Th. 9 Biffen Lecture Theatre; S. 11 Department of Anatomy

DR R. E. J. DYBALL, MR J. GRANDAGE, PROF. W. A. HARRIS AND DR J. M. HOLMES

The Nervous System (Eleven lectures, 8, 10, 13, 15, 17, 20, 22, 24, 27, 29, 31 Oct.)

DR G. J. BURTON AND MR J. GRANDAGE

The Reproductive System (Nine lectures, 3, 5, 7, 12, 14, 19, 21, 26, 28 Nov.)

Practical Work

Dissection of the domestic animals, examination of live animals, fresh viscera, radiographs and other activities (M. W. 10–12 and W. 2–4. In the Veterinary Dissecting Room and other venues)

Lectures. Th. 9

DR J. H. BRACKENBURY Comparative Vertebrate Anatomy (Eight lectures, 14, 21, 28 Jan., 4, 11, 18, 25, Feb., 4 Mar.)

Practical Work

The same continued at the following times
(M. W. 10–12. In the Veterinary Dissecting
Room and other venues)

Lectures. Tu. 9 Biffen Lecture Theatre;.
M. W. 10, S. 11 Department of Anatomy
MR J. GRANDAGE

Regional Anatomy (Six lectures, 24, 26, 27, 28 Apr., 1, 4 May.)

Practical Work

The same continued at the following times (M. W. 10–12. In the Veterinary Dissecting Room and other venues)

^{* =} The Dissecting Room is available to students between 10-12 and 2-4, and students should attend in accordance with their options.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 1998 LENT 1999 EASTER 1999

NEUROBIOLOGY (Medical Students)

Course Organiser: Dr H. R. Matthews E-mail: hrm1@cam.ac.uk

Lectures. M. Tu. W. F. 9 Babbage Lecture Theatre; Th. 9, S. 10.30 Department of Anatomy

DR R. J. KEYNES

Introduction to the brain (One lecture, 14 Jan.) PROF. R. C. THOMAS

The excitable cell. Sensory receptors (Four lectures, 15, 16, 18, 20 Jan.)

DR A. L. R. FINDLAY

The somatic sensory system. Pain (Five lectures, 21, 23, 25, 27, 28 Jan.)

DR S. A. EDGLEY

The motor system (Nine lectures, 30 Jan., 1, 3, 4, 6, 8, 10, 11, 13 Feb.)

DR R. C. HARDIE

The visual system (Seven lectures, 15, 17, 18, 20, 22, 24, 25 Feb.)

PROF. A. C. CRAWFORD

The auditory system (Three lectures, 27 Feb., 1, 3 Mar.)

DR A. ROBERTS

Neurobiology of emotion (Three lectures, 4, 6, 8 Mar.)

DR R. J. KEYNES

Blood-brain barrier. Cerebrospinal fluid and cerebral blood flow (Two lectures, 9, 10 Mar.) Lectures. M. F. 9 Babbage Lecture

Theatre; Tu. Th. 9 Department of Anatomy

DR H. R. MATTHEWS

Olfaction and taste (One lecture, 22 Apr.)
DR J. ROGERS

Development, plasticity and repair of the nervous system (Four lectures, 23, 26, 27, 29 Apr.)

DR A. ROBERTS

Neurobiology of cognition (Two lectures, 30 Apr., 3 May)

Lectures. Tu. Th. 12 Department of Physiology; M. W. 12 Department of Anatomy

PROF. B. J. EVERITT

Cerebral cortex and thalamus. Reticular formation and sleep (Five lectures, 22, 26, 27, 28, 29 Apr.)

DR A. ROBERTS

Neurobiology of cognition (Two lectures, $3, 4 \, \text{May}$)

PATHOLOGY

Course Organiser: Dr D. E. Bowyer E-mail: david.bowyer@mole.bio.cam.ac.uk

Lectures. M. W. F. 12 Chemical Laboratory Lecture Theatre

DR Y. W. LOKE

Mechanisms of Acute Inflammation

Healing

Persistent Inflammation (Four lectures, 9-16 Oct.)

DR N. HOLMES

The Immune System: Organs and Cells

B Cells and Antibodies

The Major Histocompatibility Complex

T Cells

Cellular Interactions: Cytokines

The Complement System

Tolerance

Autoimmunity

Hypersensitivity and Chronic Inflammation

(Nine lectures, 19 Oct.-6 Nov.)

DR Y. W. LOKE

Transplantation. Blood Groups (One lecture, 9 Nov.)

DR N. HOLMES

Immunity and Immunisation (One lecture, 11 Nov.)

PROF. A. C. MINSON

The Nature of Viruses

Virus replication

Host Cell Modification

Acute Virus Infection

The Response to Infection Persistent and Latent Infection

Mechanisms of Viral Pathogenesis

Control of Virus Infection

Spongiform Encephalopathy: BSE and CJD $\,$

(Nine lectures, 13 Nov.–2 Dec.)

Lectures. M. W. F. 12 Chemical Laboratory

Lecture Theatre

DR R. W. LE PAGE

Bacterial Agents of Infectious Diseases

Bacterial Cells and Populations

Transmission of Bacterial Infections

Bacterial Pathogenicity: Concepts

Bacterial Diseases: Mechanisms of

Pathogenicity I

Bacterial Diseases: Mechanisms of

Pathogenicity II

Bacterial Diseases: Mechanisms of

Pathogenicity III

Combating Bacterial Diseases (Eight lectures, 13–29 Jan.)

(Eight lect

Tuberculosis. Granulomatous Disease

(One lecture, 1 Feb.)

DR D. DUNNE

Introduction to Parasite Infections

Host-Parasite Interactions Metazoan Parasite Diseases

Protozoan Parasite Diseases

(Four lectures, 3–10 Feb.)

DR N. COLEMAN

Disorders of Red Blood Cells

Thrombosis and Embolism

Arterial Disease

Heart Failure and Hypertension

Ischaemia and Infarction

(Five lectures, 12–22 Feb.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 1998 **LENT 1999 EASTER 1999**

PATHOLOGY (continued)

Lectures. (continued)

DR M. A. STANLEY Alterations in Tissue and Organ Growth Nomenclature and Behaviour of Neoplasms Experimental Tumour Biology Cancer as a Genetic Disease I Cancer as a Genetic Disease II Mechanisms of Invasion and Metastasis Causes of Human Cancer: Chemical and Physical Carcinogens Causes of Human Cancer: Biological Carcinogens (Eight lectures, 24 Feb.-12 Mar.)

Practical Work Department of Pathology Tu. 10-12 and Th. 2-4 or Tu. 2-4 and Th. 10-12 or W. F. 10-12 or 2-4

Practical Work Department of Pathology Tu. 10-12 and Th. 2-4 or Tu. 2-4 and Th. 10-12 or W. F. 10-12 or 2-4

Practical Work Department of Pathology Revision classes. Tu. 10-12 and Th. 2-4 or Tu. 2-4 and Th. 10-12 or W. F. 10-12 or 2-4

PHARMACOLOGY

Course Organiser: Dr P. Thorn E-mail: pt207@cam.ac.uk

Lectures. Tu. Th. S. 12 Physiology Main

Lectures. Tu. Th. S. 12 Physiology Main Lecture Theatre DR J. M. EDWARDSON Introduction (One lecture, 8 Oct.) Drug interactions with receptors and ion channels (Eight lectures, 10–27 Oct.) DR R. M. HENDERSON Pharmacology of peripheral neural transmission (Six lectures, 29 Oct.-10 Nov.) DR C. R. HILEY Cardiovascular and renal pharmacology (Nine lectures, 12 Nov.-1 Dec.)

Lecture Theatre DR S. B. HLADKY Pharmacokinetics and drug metabolism (Five lectures, 14–23 Jan.) DR E. K. MATTHEWS Pharmacology of inflammation and immunosuppression (Five lectures, 26 Jan.-4 Feb.) DR M. A. BARRAND Chemotherapy (Five lectures, 6-16 Feb.) DR A. J. MORTON* Central nervous system (Medical students) (Nine lectures, 18 Feb.-9 Mar.) DR R. J. EVANS† Anthelminthics (Veterinary students) (Two lectures, 18, 20 Feb.) DR C. BRYANT† Veterinary Pharmacology (Two lectures, 23, 25 Feb.) DR P. THORN† Central nervous system (Veterinary students) (Five lectures, 27 Feb.-9 Mar.)

Practical Work. M. 2-5 or F. 2-5. A detailed timetable will be posted in the Department Practical Work. The same continued

PHYSIOLOGY

Course organiser: Dr J. C. Hickson E-mail: jcdh1@cus.cam.ac.uk

Lectures. M. W. F. 9 Main Physiology Lecture

Somatic sensation and pain (Four lectures,

Synapses and sensory receptors (Four lectures,

Lectures. M. W. F. 9 Main Physiology Lecture Theatre except where otherwise stated DR A. P. HILLIER Endocrinology (Ten lectures, 9-30 Oct.) Babbage Lecture Theatre DR W. H. COLLEDGE Reproduction (Eight lectures, 2-18 Nov.) DR J. C. D. HICKSON Fetal, neonatal and maternal physiology (Six lectures, 20 Nov.-2 Dec.)

DR H. R. MATTHEWS Neurophysiology of vision (Six lectures, 3–15 Feb.) DR D. J. TOLHURST Control of movement and posture (Six lectures, 17 Feb.–1 Mar.) DR I. M. WINTER Hearing (Four lectures, 3-10 Mar.) Practical Work

Theatre

DR H. R. MATTHEWS

DR D. J. TOLHURST

15–22 Jan.)

25 Jan.-1 Feb.)

Tu. 10-12

Lectures. M. W. F. 9 Main Physiology Lecture Theatre DR H. R. MATTHEWS Taste and smell (One lecture, 23 Apr.) DR R. H. S. CARPENTER Higher functions of the nervous system (Five lectures, 26 Apr.-5 May) DR J. H. ROGERS Developmental neurobiology (Four lectures, 7–14 May)

Practical Work Tu. 10-12 or Th. 2-4

Practical Work

Tu. 10-12 or Th. 2-4

- Medical students.
- † Veterinary students. These lectures will be given in the Lecture Theatre, Department of Pharmacology.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 1998 LENT 1999 EASTER 1999

SPECIAL VETERINARY PHYSIOLOGY

Course organiser: Dr J. C. D. Hickson E-mail: jcdh1@cam.ac.uk

Lectures. Tu. 9, S. 11 Biffen Lecture Theatre

Introduction; Motility of the ruminant stomach (Four lectures, 16, 19, 23, 26 Jan.)

DR J. C. D. HICKSON

Digestion, absorption and intermediary metabolism in ruminant and non-ruminant herbivores (Seven lectures, 30 Jan., 2, 6, 9, 13, 16, 20 Feb.)

DR A. L. FOWDEN

Reproduction, pregnancy and parturition in domestic species (Five lectures, 23, 27 Feb., 2, 6, 9 Mar.)

Demonstration classes

W. 2.15 Main Physiology Lecture Theatre, except where otherwise stated

Details will be posted in the Physiological Laboratory at the start of the Lent Term Lectures. Th. 9 Biffen Lecture Theatre

Reproduction and lactation in marsupials (One lecture, 22 Apr.)

PROF. A. D. CARE

Calcium metabolism in ruminants – physiological basis of milk fever. (One lecture, 29 Apr.)

DR R. J. BARNES

Lactation and transfer of passive immunity (Two lectures, 6, 13 May)

Demonstration classes

Main Physiology Lecture Theatre
PROF. A. D. CARE
Acute ruminant hypomagnesaemia – its

Acute ruminant hypomagnesaemia – 1 physiological basis. W. 3.30 (One class, 28 Apr.) Revision Seminar. W. 2.15 (12 May)

PSYCHOLOGY

Course Organiser: Professor B. J. Everitt E-mail: bje10@cus.cam.ac.uk

Lectures. Tu. 9 Anatomy School; F. 9 Babbage Lecture Theatre

PROF. B. J. EVERITT

Psychobiology of Emotion, Anxiety and Depression (Four lectures, 19, 22, 26, 29 Jan.)

DR S. BARON-COHEN

Psychopathology (Four lectures, 2, 5, 9, 12 Feb.)

DR T. DALGLIESH

Experimental Psychopathology of Anxiety and Depression (Two lectures, 16, 19 Feb.)

DR J. RUSSELL

Cognitive and Social Development (Two lectures, 23, 26 Feb.)

PROF. N. J. MACKINTOSH

Intelligence (Two lectures, 2, 5 Mar.)

Lectures. W. 9, F. 12 Anatomy School DR R. A. McCARTHY Neuropsychology (Three lectures, 28, 30 Apr., 5 May)

DR S. MONSELL Attention and Memory (Three lectures, 7, 12, 14 May)

REPRODUCTIVE BIOLOGY

Course Organiser: Professor M. H. Johnson E-mail: mhj@mole.bio.cam.ac.uk

Lectures. M. W. F. 9 Babbage Lecture Theatre; Tu. 9

Department of Anatomy

PROF. A. SURANI

Sexual differentiation

Gametogenesis

Structure and function of the male and female reproductive organs

Reproductive cycles and their neuroendocrine control (Six lectures, 2, 4, 6, 9, 10, 11 Nov.)

DR G. BURTON

Fertilization and implantation

Placentation

Maternal Physiology during pregnancy

Fetal development

Assisted conception

Contraception (Five lectures, 13, 16, 17, 18, 20 Nov.)

DR R. J. BARNES

Preparations for birth Parturition.

Neonatal physiology

Parental behaviour and lactation (Four lectures, 23, 25, 27, 30 Nov.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (GENERAL)

MICHAELMAS 1998 LENT 1999 EASTER 1999

A candidate must offer

two special Subjects and one Elective Subject either

one Special Subject, one subject from Part IB of the Natural Tripos (listed below) and one Elective Subject a dissertation or project report associated with either one of the Special Subjects or one of the Elective Subjects and

Details of the restrictions on offering certain combinations of subjects and of which subjects offer a Dissertation or project report are published in Reporter, 11 March 1998, p. 491.

SPECIAL SUBJECTS

Cellular and Molecular Pharmacology

Course Organiser: Dr B. A. Callingham E-mail: bac5@cam.ac.uk

This course will consist of lectures from N.S.T. Part II Pharmacology (see p. 192), and must be taken together with the Pharmacology of Integrated Systems course.

Cellular Pathology: Pathology A

Course Organiser: Dr M. Clark E-mail: mrc7@cam.ac.uk

This course consists of lectures from N.S.T. Part II Pathology on M. W. F. 9 (see p.190).

Clinical Physiology and Neurobiology

This course consists of lectures from N.S.T. Part II Physiology, Modules 6 and 7 (see p. 194).

History of Medicine, Body and Mind

Department of History and Philosophy of Science, Free School Lane

This course will consist of Papers 6 and 7 from Part II History and Philosophy of Science (see p. 188). Prof. Lipton would like to see all Part II students on Wednesday, 7 October at 2.15 p.m. in Seminar Room 2, Department of History and Philosophy of Science, Free School Lane.

Human Genetics and Ecology

This course will consist of Papers B4 and B5 from Part IIB (New Regulations), Biological Anthropology (see p. 211).

Human Impact on the Environment

Course Organiser: Dr J. R. Flowerdew E-mail: j.r.flowerdew@zoo.cam.ac.uk

Lectures

DR P. ROHANI, DR P. GRUBB, DR W. AMOS, PROF. T. CLUTTON-BROCK, DR T. COULSON, DR H. JONES AND DR A HECTOR

Population and Community Ecology. M. W. F. 5 (Twenty-four lectures)

Department of Plant Sciences

DR M. BROOKE, DR W. AMOS, DR P. GRUBB. DR A. BALMFORD, DR D. BRIGGS AND DRI HODGE

Conservation Biology. M. W. F. 5 (Twentyfour lectures) Department of Zoology

DR J. R. FLOWERDEW AND DR A. CHEPSTOW-LUSTY

Human Impact on the Environment. M. W. F. 5 (Twelve lectures) Department of Zoology

Mechanisms of Disease: from Process to Patient, (A) and (B)

Course Co-ordinator: Dr J. H. Xuereb E-mail: jhx1000@cus.cam.ac.uk with Dr S. Thiru and Dr N. Coleman

Lectures will start at 10.30 a.m. in Department of Pathology Lecture Theatre

DR J. XUEREB

Introductory Lecture (6 Oct.)

Pathogens and Disease

DR A. LEVER

Molecular biology of Human Immunodeficiency Virus (7 Oct.)

Pathogenesis of AIDS (8 Oct.)

DR A. CARMICHEAL

Immunological controls of HIV infection (9 Oct.) DR A. LEVER

HTLV-1 infection and pathogenesis (12 Oct.)

DR N. BROWN

Sepsis and the host's response to infection (13 Oct.) DR M. FARRINGTON

Pneumonia - racing against the escalator (14 Oct.) DR N. COLEMAN

Immunopathological response to mycrobacterial infection (15 Oct.)

DR D. WIGHT

Helicobacter and associated pathophysiology (16 Oct.) Viral hepatitis I and II (19, 20 Oct.)

DR A. LEVER

Mechanisms and consequences of microbial invasion of the central nervous system (21 Oct.) PROF. A. MINSON

Prions (22 Oct.)

Tumour Biology

PROF. E. D. WILLIAMS

Carcinogenesis, environment and growth control (12 Jan.)

DR M. STANLEY

Infection and cancer - molecular biology of cervical cancer (13 Jan.)

DR C. CALDAS

Molecular biology of breast cancer (14 Jan.) DR P. RABBITTS

Molecular biology of lung cancer (15 Jan.) DR A. GREEN

Leukaemia I: Transcriptional regulation of haemopoiesis (18 Jan.)

Leukaemia II: Molecular Pathology (19Jan.) DR N. COLEMAN

The Langerhans cell and histiocytic disorders (20 Jan.)

Biology of neoplasms in children (21 Jan.) PROF. V. P. COLLINS

Cerebral gliomas: pathology and molecular biology (22 Jan.)

DR N. COLEMAN

Tumour immunology (25 Jan.)

Pathophysiology of some organ-based/systemic diseases Kidney

DR S. THIRU

Pathophysiology of progressive renal disease (20 Apr.)

Mechanism of renal damage in Diabetes Mellitus (21 Apr.)

The Circulation

DR N. CARY

Biology of myocardium hypertrophy (22 Apr.)

DR J. BOYLE

Primary dysfunction of myocardium: cardiomyopathy, myocarditis (23 Apr.)

DR N. CARY Molecular basis of drug action on the heart

(26 Apr.)

PROF. P. WEISSBERG

Atherosclerosis I and II (27, 28 Apr.) DR T. BAGLIN

Biology and molecular pathology of haemostasis (29 Apr.)

Disseminated intravascular coagulation (30 Apr.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (GENERAL) (continued)

MICHAELMAS 1998 LENT 1999 EASTER 1999

Mechanisms of Disease: from Process to Patient, (A) and (B) (continued)

Immune responses, Inflammation and Disease

DR J. BRADLEY

Vascular endothelium – physiology and pathophysiology I and II (23, 26 Oct.)

DR K. SMITH

Immune mechanisms of disease (27 Oct.)

DR D. BROWN

Immunodeficiency (28 Oct.)

Function and dysfunction of gut associated lymphoid tissue (29 Oct.)

DR J. ARNO

Immune disorders of the GI tract - I and II

(30 Oct., 2 Nov.)

PROF. J. GASTON

The role of HLA antigens in the pathogenesis of arthritis (3 Nov.)

Cytokines in arthritis – potential therapeutic targets (4 Nov.)

Infectious agents and arthritis: Lyme disease and reactive arthritis (5 Nov.)

T lymphocytes and joint inflammation (6 Nov.)

DR D. WIGHT

Immunopathology of cholestasis (9 Nov.)

Mechanisms of fibrosis in the liver (10 Nov.)

DR K. SMITH

Medication of immune renal injury - I and II (11, 12 Nov.)

DR J. XUEREB

Inflammation in the central nervous system (13Nov.)

Aetiology and pathogenesis of demyelinating diseases (16 Nov.)

DR J. ANDERSON

Autoimmune myopathies and myaesthenia gravis (17Nov.)

Endocrine and Metabolic Disease

PROF. K. CHATTERJEE

Principles of hormone action (18 Nov.)

PROF. S. O'RAHILLY

How insulin works and how it goes wrong (19 Nov.) PROF. K. CHATTERJEE

Molecular pathology of hormone receptors and G proteins I and II (20, 23 Nov.)

DR T. KEALEY

The kidney as an endocrine organ (24 Nov.)

PROF. S. O'RAHILLY

Understanding human obesity (25 Nov.)

DR J. COMPSTON

Bone cell physiology (26 Nov.)

Pathology of metabolic bone disease (27 Nov.)

DR S. MIDDLETON

Gastrointestinal hormones and peptides (30 Nov.) PROF. T. COX

Formation of blood pigment: Porphyria (1 Dec.)

The Lysosome - a gateway to treatment (2 Dec.)

Iron – a noxious essential (3 Dec.)

DR J. XUEREB

Mitochondrial encephalomyopathies (4 Dec.)

Transplantation

DR S. THIRU

Immunobiology of transplantation and rejection I and II (26, 27 Jan.)

DR C. TAYLOR

Blood transfusion effect (28 Jan.)

DR S. METCALFE

Molecular basis of immunosuppression (29 Jan.)

DR D. WHITE

Xenotransplantation: Concordant (1 Feb.) Xenotransplantation: Discordant (2 Feb.)

DR S. THIRU

Long term outcome of transplantation (3 Feb.)

Gestational, Paediatric and Inherited Diseases

DR A. KING

Immunopathology of reproduction (4 Feb.) Pathogenesis of pre-eclampsia (5 Feb.)

Immunogenetics of gestational trophoblastic disease (8 Feb.)

PROF. M. BOBROW

Genetic factors in disease (9 Feb.)

DR I. HUGHES

Genetic control and disorders of sex development (10 Feb.)

Endocrine regulation of growth and its disorders (11 Feb.)

Disorders of steroid biosynthesis and metabolism (12 Feb.)

DR N. COLEMAN

Pathophysiology of disease in the premature baby (15 Feb.)

DR R. ILES

Molecular and cell biology of cystic fibrosis (16 Feb.)

DR R. SANDFORD

Aspects of inherited renal disorders (17 Feb.)

PROF. M. BOBROW

Dystrophin-related myopathies (18 Feb.) DR D. RUBINSZTEIN

Molecular genetics and pathology of Huntington's disease (19 Feb.)

DR E. REID

Hereditary ataxias (22 Feb.)

PROF. R. CARRELL

Haemoglobinopathies - I and II (23, 24 Feb.)

Pathophysiology of some organ-based/systemic diseases Brain

DR J. XUEREB

The pathology of the neuronal cytoskeleton (25 Feb.)

Amyloid deposition in the brain (26 Feb.) Excitotoxicity in neurodegeneration (1 Mar.) DR M. GODDARD

Pathophysiology of pulmonary microvasculature (2 Mar.)

DR S. STEWART

Respiratory tract hypersensitivity (3 Mar.) Irreversible airways narrowing and alveolar wall destruction. (4 Mar.)

DR J. STERLING

Normal and abnormal skin structure (5 Mar.) Skin as an organ of immunity (8 Mar.) Disorders of the skin immune system (9 Mar.) Skin as a renewable organ (10 Mar.)

Liver

DR G. ALEXANDER

Pathophysiology of liver failure (11 Mar.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (GENERAL) (continued)

MICHAELMAS 1998 **LENT 1999 EASTER 1999**

Pharmacology of Integrated Systems

Course Organiser: Dr B. A. Callingham E-mail: bac5@cam.ac.uk

This course will consist of lectures from N.S.T. Part II Pharmacology, under the section named Pharmacology of Integrated Systems (see p. 191).

Primate and Human evolutionary Biology and Behaviour

The course will consist of Papers B6 and B7 from Part IIB (New Regulations), Biological Anthropology (see p. 211).

THE FOLLOWING SPECIAL SUBJECT IS NOT AVAILABLE IN 1998-1999:

Immunology: Pathology B Microbial and Parasitic Disease: Pathology C Virology: Pathology D Genetic Pathology: Pathology E

ELECTIVE SUBJECTS

4. Human Genetics and Variation

See Biological Anthropology, Part IIB, Paper B4 (New Regulations) (see p. 211).

5. Human Nutrition

DR E. L. MILLER AND STAFF OF DUNN NUTRITION UNIT AND ADDENBROOKE'S HOSPITAL

Tu. Th. 12 (Sixteen lectures) Mill Lane Lecture Room 4

Lectures

The same continued. Tu. Th. 12 (Sixteen lectures) Mill Lane Lecture Room 4

Lectures

The same continued. Tu. Th. 12 (Four lectures, 22, 27, 29 Apr., 4 May) Mill Lane Lecture Room 4

A detailed topic list will be available from the Course Organiser, Dr E. L. Miller, Nutrition Laboratory, Department of Clinical Veterinary Medicine, 307 Huntingdon Road. Tel. (3)37056/8, E-mail: elm1@cam.ac.uk.

6. Medical Aspects of Neurobiology

Course Organiser: Dr J. W. Fawcettt E-mail: jf108@cam.ac.uk

Tu. Th. 10 In the Physiology Main LectureTheatre (Dr J. W. Fawcett)

DR J. MORTON

Lectures

Neurodegeneration. (Four lectures, 8, 13, 15, 20 Oct.) DR J. W. FAWCETT

Recovery from injury and regeneration. (Three lectures, 22, 27, 29 Oct.)

DR S. DUNNETT

Brain Grafting. (Two lectures, 3, 5 Nov.)

PROF. J. PICKARD AND MR P. KIRKPATRICK

Cerebrospinal fluid, raised intracranial pressure, Stroke, CNS injury. (Four lectures, 10, 12, 17, 19 Nov.) DR J. HUNTER

Development of CNS pharmaceutical compounds (One lecture, 24 Nov.)

DR R. FRANKLIN

Demyelination and remyelination (Two lectures, 26 Nov., 1 Dec) Tu. Th. 10 In the Physiology Main Lecture Theatre unless otherwise stated (Dr J. W. Fawcett)

DR I. M. WINTER

Hearing disorders (Three lectures,

14, 19, 21, Jan.)

DR D. J. TOLHURST

Disorders of vision and visual assessment (Three lectures, 26, 28 Jan., 2 Feb.)

DR R. BARKER

Relief of acute and chronic pain (Two lectures, 4, 9 Feb.)

DR A. ROBERTS

Cognitive disorders in neurological disease (Two lectures, 18, 23 Feb.)

PROF. I GOODYEAR, DR A. HOLLAND AND

DR P. BOLTON

Scientific basis and treatment of psychiatric disorders (Four lectures, 25 Feb., 2, 4, 9 Mar.)

7. Medicine, Ethics and the Law

Course Co-ordinator: Mr J. L. Caddick E-mail: jlc24@cam.ac.uk, tel. (3)34264

Lectures and seminars take place on Tu. Th. 4 in the Department of Genetics on the Downing Site, and in the Law Faculty, as indicated

DR J. KEOWN

Medical Law. Th. 4 Law Faculty Lecture Theatre LG17 Introduction to Medical Law. Tu. 4 (Two lectures, 13, 20 Oct.) Biffen Lecture Theatre

MR J. L. CADDICK

Medical Ethics. Tu. 4 (Six seminars, 27 Oct., 3, 10, 17, 24 Nov., 1 Dec.) Department of Genetics, Room G6 The same continued. Th. 4 Law Faculty

The same continued. Tu. 4 Department of Genetics

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (GENERAL) (continued)

MICHAELMAS 1998 **LENT 1999** EASTER 1999

9. Medicine, Health and Illness

Course Organiser: Dr C. Todd E-mail: cjt@cam.ac.uk

All lectures take place in Room 606, Centre for Family Research unless otherwise stated

DR C. TODD

Introduction to Medicine, Health and Illness. F. 1 (week 1)

DR C. POPE

Introduction to Sociology of Health and Illness. F. 1–3 (weeks 5-8)

DR G. LEWIS

Introduction to Medical Anthropology. W. 9

Social Anthropology DR F. BARBIRA-FREEDMAN

DR T. SHAKESPEARE DR C. TODD

DR D. PENCHEON

JULIET MITCHELL

Childbirth and the Ritual Process. W. 9 (weeks 1-4)

The Politics of Disability. F.2-4 (weeks 1 and 3)

Health Psychology. Th. 4 Health Politics and Policy. Tu. 12 (weeks 5–8)

Hysteria – a gendered illness. Tu. 12 (weeks 1-4)

The same continued. M. 5 The same continued. Tu. 11

10. Topics in Clinical Physiology

Course Organiser: Dr R. J. Barnes E-mail: rbj4@cam.ac.uk W. F. 10 In the Biffen Lecture Theatre

DR R. J. BARNES

Cardiovascular physiology, regulation of cardiac output, reflex control of the circulation, hypoxia and chemoreceptors (Six lectures, 9, 14, 16, 21, 23, 28

PROF. J. T. FITZSIMONS

Oedema, shock and heart failure (Five lectures, 4, 6, 11, 13, 18 Nov.)

DR A. ODURO

Myocardial protection and re-perfusion injury (Two lectures, 25 Nov., 2 Dec.)

DR J. BRADLEY, DR K. SMITH AND DR J. FIRTH

Physiological aspects of renal disease (Six lectures, 15, 20, 22, 27, 29 Jan., 3 Feb.)

PROF. J. T. FITZSIMONS

Hypertension (Four lectures, 5, 10, 12, 17 Feb.)

DR M. C. PETCH

The abnormal physiology of cardiac ischaemia, left ventricular overload and pulmonary hypertension (Five lectures, 24, 26 Feb., 3, 5, 10 Mar.)