### LECTURE-LIST–MICHAELMAS TERM 1999

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.) Professor Sir Keith Peters and Dr A. L. R. Findlay (Medical Students) *Anatomy Lecture Theatre*

W. 11 (6 Oct.) Mr J. Grandage, Dr D. Chivers, Professor L. B. Jeffcott and Dr A. L. R. Findlay (Veterinary Students) *Biffen Lecture Theatre*

### ANATOMY

*(Medical Students)*

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

<table>
<thead>
<tr>
<th>Lectures</th>
<th>M. F. 9</th>
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<tbody>
<tr>
<td><strong>DR I. G. PARKIN</strong></td>
<td><strong>MR R. H. WHITAKER</strong></td>
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<tr>
<td>Anatomy, General Principles and Course Aims. (One lecture, 8 Oct.)</td>
<td>Principles of Head, Neck, Autonomics and Cranial Nerves (Three lectures, 24, 28, 31 Jan.)</td>
</tr>
<tr>
<td><strong>DR G. J. BURTON</strong></td>
<td><strong>The Ear (One lecture, 4 Feb.)</strong></td>
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<tr>
<td>Ethics, Attitudes and Communication (One lecture, 11 Oct.)</td>
<td><strong>Larynx (One Lecture, 7 Feb.)</strong></td>
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<tr>
<td><strong>DR I. G. PARKIN</strong></td>
<td><strong>DR I. G. PARKIN</strong></td>
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<tr>
<td>Musculo-Skeletal System: Bones, Joints and Muscles (Two lectures, 15, 18 Oct.)</td>
<td>Chewing and Swallowing (One lecture, 11 Feb.)</td>
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<tr>
<td><strong>DR S. A. EDGLEY</strong></td>
<td><strong>DR G. J. BURTON</strong></td>
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<tr>
<td>Imaging (One lecture, 5 Nov.)</td>
<td>Lungs, Pleura and Respiration (One lecture, 18 Feb.)</td>
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<tr>
<td><strong>DR I. G. PARKIN</strong></td>
<td><strong>DR S. J. BRAY</strong></td>
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<tr>
<td><strong>DR A. DIXON</strong></td>
<td><strong>MR R. H. WHITAKER</strong></td>
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<tr>
<td>Imaging (One lecture, 5 Nov.)</td>
<td>Principles of Peritoneum and G.I.T. Innervation (One lecture, 6 Mar.)</td>
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<tr>
<td><strong>DR S. J. BRAY</strong></td>
<td><strong>DR I. G. PARKIN</strong></td>
</tr>
<tr>
<td>Embryology (Two lectures, 19, 22 Nov.)</td>
<td>Anatomy Changing with Age (One lecture, 3 Mar.)</td>
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<tr>
<td><strong>DR I. G. PARKIN</strong></td>
<td><strong>MR R. H. WHITAKER</strong></td>
</tr>
<tr>
<td>Nerve Injuries (One lecture, 26 Nov.)</td>
<td>Principles of Perteioneum and G.I.T. Innervation (One lecture, 6 Mar.)</td>
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<tr>
<td><strong>Principles of Fascia (One lecture, 29 Nov.)</strong></td>
<td><strong>Special Periods</strong></td>
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<tr>
<th>Lectures</th>
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<tr>
<td><strong>DR I. G. PARKIN</strong></td>
<td><strong>MR R. H. WHITAKER</strong></td>
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<tr>
<td><strong>Cranial Cavity and Meninges (One lecture, 21 Jan.)</strong></td>
<td><strong>Urinary Continence and Incontinence (One lecture, 28 Apr.)</strong></td>
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<tr>
<td><strong>MR R. H. WHITAKER</strong></td>
<td><strong>Rectum and Anal Canal (One lecture, 1 May)</strong></td>
</tr>
<tr>
<td>Principles of Head, Neck, Autonomics and Cranial Nerves (Three lectures, 24, 28, 31 Jan.)</td>
<td><strong>Male Reproductive Tract (One lecture, 5 May)</strong></td>
</tr>
<tr>
<td><strong>DR I. G. PARKIN</strong></td>
<td><strong>DR I. G. PARKIN</strong></td>
</tr>
<tr>
<td>Chewing and Swallowing (One lecture, 11 Feb.)</td>
<td>Female Reproductive Tract (One lecture, 8 May)</td>
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<tr>
<td><strong>DR G. J. BURTON</strong></td>
<td><strong>DR S. J. BRAY</strong></td>
</tr>
<tr>
<td>Heart (One lecture, 21 Feb.)</td>
<td>Embryology (continued): Urogenital (One lecture, 12 May)</td>
</tr>
<tr>
<td><strong>DR S. J. BRAY</strong></td>
<td><strong>MR R. H. WHITAKER</strong></td>
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<tr>
<td>Embryology (continued): Cardiovascular and G.I.T. (Two lectures, 25, 28 Feb.)</td>
<td>Abdominal Wall, Hemias and Inguinal Canal (One lecture, 15 May)</td>
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### Special Periods

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<tr>
<th><strong>DR I. G. PARKIN</strong></th>
<th><strong>DR I. G. PARKIN</strong></th>
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<tbody>
<tr>
<td>Clinical Demonstration. Th. 10–12 (2 Dec.)</td>
<td>Clinical Demonstration. S. 2–4 (17 Mar.)</td>
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### Practical Work

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<tr>
<th>Lectures</th>
<th>M. F. 9</th>
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<tr>
<td><strong>Dissection and Prosections</strong></td>
<td><strong>Dissection and Prosections</strong></td>
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* The Dissection Room is available to students between 10 am and 12; and 2 pm and 4, and students should attend in accordance with their options.*
BIOCHEMISTRY AND MEDICAL GENETICS

In the Babbage Lecture Theatre, New Museums Site, unless otherwise stated.

NOTE that in the Michaelmas and Easter Terms there are three lectures per week (Tu. Th. 9, S. 11) and in the Lent Term there are two lectures per week (Tu. Th. 9)

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

PATHOLOGY

(For 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 155)

PHYSIOLOGY

Course Organiser: 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, 7–23 Oct.)
DR C. L-H. HUANG
Physiology of muscle (Six lectures, 26 Oct. –6 Nov.)
DR R. J. BARNES
Cardiovascular system and autonomic nervous system (Ten lectures, 9–30 Nov.)

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 M. 2-4 or W. 2-4 or F. 2-4

Lectures. Tu. Th. 9
DR I. ARKIN
Membrane biogenesis and the way proteins cross the membrane barriers (Four lectures, 20 Jan. –1 Feb.)
DR N. M. STANDART
The genetic code: its molecular nature, creation and expression as protein. (Five lectures, 3–17 Feb.)
DR A. M. TOLKOVSKY
The control of gene expression (Four lectures, 22 Feb. –2 Mar.)
DR C. J. BATES
Topics in human nutrition (Three lectures, 7–14 Mar.) (Medical Students)
MRS P. J. WATSON
Veterinary nutrition (Three lectures, 7–14 Mar.) Department of Biochemistry, Downing Site building (Veterinary Students)

Practical Work
The same continued. Department of Biochemistry

Lectures. Tu. Th. 12
DR R. L. TAPP
Breathing and blood gases (Nine lectures, 20 Jan. –8 Feb.)
DR J. W. FAIRCETT
Renal Physiology and body fluid homeostasis (Eleven lectures, 10 Feb. –4 Mar.)
DR M. P. MAHAUT-SMITH
Temperature regulation and the control of body weight (Four lectures, 7–14 Mar.)

Practical Work
The same continued

Lectures. Tu. Th. 9, S. 11
DR J. BARRETT, DR A. P. JACKSON AND DR D. W. MACDONALD
Medical and biochemical genetics (Twelve lectures, 27 Apr. –23 May)
Some of these lectures, for Veterinary Students, will be held in the Department of Biochemistry, Downing Site building

Practical Work
The same continued.
MEDICAL AND VETERINARY SCIENCES TRIPOS, PART I A (continued)

MICHAELMAS 1999

LENT 2000

EASTER 2000

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
Domestication (One lecture, 8 Oct.)

MR. J. GRANDAGE
Course, Terms and Principles (One lecture, 11 Oct.)

DR. D. J. CHIVERS, MR. J. GRANDAGE AND DR. J. M. HOLMES
The Locomotor System (Twelve lectures, 13, 15, 18, 20, 22, 27, 29 Oct., 1, 8, 10, 12, 15 Nov.)

PROF. W. A. HARRIS, DR. S. J. B. RAY AND DR. D. TANNAHILL
Developmental Biology (Four lectures, 25 Oct., 3, 5, 17 Nov.)

DR. J. M. HOLMES
The Nervous System (Six lectures, 19, 22, 24, 26, 29 Nov., 1 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, 21, 24 Jan.)

DR. S. J. B. RAY, DR. J. H. BRACKENBURY, MR. J. GRANDAGE AND DR. J. M. HOLMES
The Cardiovascular System (Seven lectures, 26, 28 Jan., 2, 4, 7, 9, 11 Feb.)

DR. J. H. BRACKENBURY
The Respiratory System (Four lectures, 14, 16, 21, 23 Feb.)

DR. D. J. CHIVERS
The Digestive System (Five lectures, 28 Feb., 1, 6, 8, 13 Mar.)

Practical Work
The same continued

SECOND M.B. EXAMINATION

POPULATION SCIENCES

Course Organiser: Dr T. Davies
E-mail: twd@medschl.cam.ac.uk

Lectures
Department of Anatomy Lecture Theatre

DR. T. W. DAVIES AND DR. C. PALMER
M. 12 (8, 15, 22, 29 Nov.)
F. 12 (12, 19, 26 Nov., 3 Dec.)

Lectures
DR. T. W. DAVIES AND INVITED LECTURERS
M. 12 (24, 31 Jan., 7, 14, 21, 28 Feb., 6, 13 Mar.)
F. 12 (21, 28 Jan., 4, 11, 18, 25 Feb., 3, 10 Mar.)

SECOND VET. M.B. EXAMINATION

ANIMAL HUSBANDRY, AGRICULTURAL ECONOMICS AND ANIMAL BEHAVIOUR
(Veterinary Students)

* Course Organisers: Dr Holmes telephone no. 37636 or 37632, Professor Broom telephone no. 37697 or 37632.

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 (25 Oct., 1, 8, 15, 22, 29 Nov.)
F. 12 (29 Oct., 5, 12, 19, 26 Nov., 3 Dec.)
Biffen Lecture Theatre

Lectures
*PROF. D. M. BROOK
Animal Behaviour (Ten lectures). M. 12 (10, 17, 24, 31 Jan., 7 Feb.)
F. 12 (7, 14, 21, 28 Jan., 4 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. 6 Dec. to W. 8 Dec. 1999. There is also the opportunity to attend a two-week course in Livestock Management at the Berkshire College of Agriculture during the summer vacation.
ANATOMY (DEVELOPMENTAL BIOLOGY FOR MEDICINE)
(Medical Students)
Course Organiser: Dr V. Navaratnam E-mail: vn@mole.bio.cam.ac.uk

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

DR S. J. BRAY
Introduction (One lecture, 2 Nov.)
DR D. TANNAHILL
Early nervous system, mesoderm differentiation
(Two lectures, 4, 9 Nov.)

DR R. J. KEYNES
Normal and abnormal patterning of the head and neck
(Three lectures, 11, 16, 18 Nov.)

PROF. W. A. HARRIS
Special sense organs (One lecture, 22 Nov.)

DR P. SCHOFIELD AND DR A. C. FERGUSON-SMITH
Urogenital system (Two lectures, 23, 24 Nov.)

DR V. NAVARATNAM
Heart (Two lectures, 25, 26 Nov.)

DR P. SCHOFIELD AND DR A. C. FERGUSON-SMITH
Fetal growth control and defects (Two lectures, 29, 30 Nov.)

Practicals
1. Th. 10–12 (4 Nov.); Tu. 10–12, 2–4 (9 Nov.)
   Physiology (Histology) Laboratory
2. Th. 2–4 (25 Nov.); F. 10–12 (26 Nov.); M. 10–12, 2–4
   (29 Nov.) Anatomy (Procedures Laboratory)
3. Forum: Congenital abnormalities W. 9 (1 Dec.)
   Anatomy Lecture Theatre

ENDOCRINOLOGY BIOMEDICAL ETHICS AND HUMAN REPRODUCTION
(Medical Students)
Course Organiser: Dr A. L. R. Findlay E-mail: alrf@cus.cam.ac.uk

Lectures.  M. W. F. 9 Babbage Lecture Theatre;
Tu. 9, Th. 5 Department of Anatomy

DR A. L. R. FINDLAY
Endocrinology (Ten lectures, 8, 11, 13, 15, 18, 20, 22, 25,
27, 29 Oct.)

DR D. COX
Biomedical Ethics (Five lectures, 7, 9, 12, 14, 16 Oct.)

DR A. L. FOWDEN
Sexual differentiation
Gametogenesis
Structure and function of the male and female
reproductive organs
Reproductive cycles and their neuroendocrine control
(Six lectures, 19, 21, 23, 26, 28, 30 Oct.)

DR G. BURTON
Fertilization and implantation
Placentation
Maternal Physiology during pregnancy
Fetal development
Assisted conception
Contraception (Five lectures, 1, 3, 5, 9, 10 Nov.)

DR R. J. BARNES
Preparations for birth
Parturition
Neonatal physiology
Parental behaviour and lactation (Four lectures, 12, 15,
17, 19 Nov.)
LECTURE-LIST—MICHAELMAS TERM 1999

MICHAELMAS 1999

GENERAL VETERINARY PHYSIOLOGY
(Veterinary Students)
Course Organiser: Dr J. C. D. Hickson E-mail: jcdh1@cus.cam.ac.uk

Lectures. M. W. F. 9 Main Physiology Lecture Theatre (except where otherwise stated)
DR A. L. R. FINDLAY
Endocrinology (Ten lectures, 8–29 Oct.) Babbage Lecture Theatre
DR W. H. COLLEDGE
Reproduction (Eight lectures, 1–17 Nov.)
J. C. D. HICKSON
Fetal, neonatal and maternal physiology (Six lectures, 19 Nov.–1 Dec.)

Practical Work
Tu. 10–12 or Th. 2–4

Lectures. M. W. F. 9 Main Physiology Lecture Theatre
DR H. R. MATTHEWS
Synapses and sensory receptors (Four lectures, 21–28 Jan.)
DR J. C. D. HICKSON
Control of movement and posture (Six lectures, 23 Feb.–6 Mar.)
DR I. M. WINTER
Hearing (Four lectures, 8–15 Mar.)

Practical Work
Tu. 10–12

Lectures. M. W. F. 9 Main Physiology Lecture Theatre
DR R. W. LE PAGE
Bacterial Agents of Infectious Disease
DR A. H. WYLLIE
Introduction
Cell Injury and Inflammation (Eight lectures, 1–17 Nov.)
DR Y. W. LOKE
Mechanisms of Acute Inflammation
Persistent Inflammation (Four lectures, 21–28 Jan.)

Lectures. M. W. F. 9 Main Physiology Lecture Theatre
DR H. R. MATTHEWS
Taste and smell (One lecture, 28 Apr.)
DR A. L. R. FINDLAY
Higher functions of the nervous system (Three lectures, 1–5 May)
DR I. H. ROGERS
Developmental neurobiology (Four lectures, 8–15 May)

Practical Work
Tu. 10–12 or Th. 2–4

TEACHING MATERIALS

Lectures. M. W. F. 9 Chemical Laboratory Lecture Theatre
PROF. A. H. WYLLIE
Introduction
Cell Injury and Inflammation (Two lectures, 8–11 Oct.)

Lectures. M. W. F. 9 Chemical Laboratory Lecture Theatre
DR R. W. LE PAGE
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, 19 Jan.–4 Feb.)

Practical Work
Class times as for Lent Term

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART I B

MICHAELMAS 1999

Lectures. M. W. F. 9 Babbage Lecture Theatre, Th. 9, S. 11 Department of Anatomy
DR R. J. KEYNES
Introduction to the brain (One lecture, 20 Jan.)
DR R. C. THOMAS
The excitatory cell, Sensory receptors (Four lectures, 21, 22, 24, 26 Jan.)
DR I. M. WINTER
The somatic sensory system. Pain (Five lectures, 27, 29 Jan., 2, 3 Feb.)
DR S. A. EDGLEY
The motor system (Nine lectures, 5, 7, 9, 10, 12, 14, 16, 17, 19 Feb.)
DR R. C. HARDIE
The visual system (Seven lectures, 21, 23, 24, 26, 28 Feb., 1, 2 Mar.)
PROF. A. C. CRAWFORD
The auditory system (Three lectures, 4, 6, 8 Mar.)
DR A. ROBERTS
Neurobiology of emotion (Three lectures, 9, 11, 13 Mar.)
DR R. J. KEYNES
Blood-brain barrier. Cerebrospinal fluid and cerebral blood flow (Two lectures, 14, 15 Mar.)

Practical Work
Structure of the Brain: Laboratory classes. Th. 2–4 or F. 10–12 Anatomy School.
Experimental Neurophysiology in the Physiological Laboratory. Times according to Physiology options

Lectures. M. W. F. 9 Babbage Lecture Theatre, Th. 9, S. 11 Department of Anatomy
DR R. H. MATTHEWS
Olfaction and taste (One lecture, 27 Apr.)
DR J. ROGERS
Development, plasticity and repair of the nervous system (Four lectures, 28 Apr., 1, 2, 4 May)
DR A. ROBERTS
Neurobiology of cognition (Two lectures, 5, 8 May)

Practical Work
Tu. 10–12 or Th. 2–4

Lectures. M. W. F. 9 Babbage Lecture Theatre
DR H. R. MATTHEWS
Combating Bacterial Diseases (Eight lectures, 19 Jan.–4 Feb.)

PATHOLOGY
Course Organiser: Dr B. Kingston E-mail: ibk@mole.bio.cam.ac.uk
PATHOLOGY (continued)

DR N. COLEMAN
Tuberculosis. Granulomatous Disease
(One lecture, 7 Feb.)

DR D. DUNNE
Introduction to Parasite Infections
Host-Parasite Interactions: Metazoan Parasite Diseases
Protozoan Parasite Diseases (Four lectures, 9–16 Feb.)

DR N. COLEMAN
Disorders of Red Blood Cells
Thrombosis and Embolism
Arterial Disease
Heart Failure and Hypertension
Ischaemia and Infarction (Five lectures, 18–28 Feb.)

DR M. ARENDS
Principles of Growth Dysregulation
Nomenclature and Behaviour of Neoplasms
Invasion, Angiogenesis and Metastasis
Carcinogenesis: population and molecular epidemiology (Four lectures, 1–8 Mar.)

PROF. A. H. WYLLIE
Genetic Basis of Neoplasia: oncogenes
Genetic Basis of Neoplasia: oncosuppressor genes
Genetic Basis of Neoplasia: multistage carcinogenesis
Molecular Basis of Tumour Therapy (Four lectures, 10–17 Mar.)

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

Lectures
Tu. Th. S. 12 Physiology Main Lecture Theatre

DR S. B. HLADKY
Pharmacokinetics and drug metabolism
(Five lectures, 20–29 Jan.)

DR E. K. MATTHEWS
Pharmacology of inflammation and immunosupression
(Five lectures, 1–10 Feb.)

DR M. A. BARRAND
Chemotherapy (Five lectures, 12–22 Feb.)

DR A. J. MORTON*
Central nervous system (Medical students.
Nine lectures, 24 Feb–14 Mar.)

DR C. BRYANT†
Veterinary Pharmacology (Two lectures,
24, 26 Feb.)

DR P. THORN†
Central nervous system (Veterinary students.
Five lectures, 29 Feb–9 Mar.)

DR R. J. EVANS†
Anthelminthics (Veterinary Students.
Two lectures, 11, 14 Feb.)

Practical Work
The same continued

PHARMACOLOGY

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

Lectures
Tu. Th. S. 12 Physiology Main Lecture Theatre

DR J. M. EDWARDSON
Introduction (One lecture, 7 Oct.)
Drug interactions with receptors and ion channels
(Eight lectures, 9–26 Oct.)

DR R. M. HENDERSON
Mechanisms and pharmacology of neural transmission
(Six lectures, 28 Oct.–9 Nov.)

DR C. R. HILEY
Cardiovascular and renal pharmacology (Nine lectures, 11–30 Nov.)
**SPECIAL NO. 2] LECTURE-LIST—MICHAELMAS TERM 1999 157**

**MEDICAL AND VETERINARY SCIENCES TRIPPOS, PART I B**

<table>
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<th>LENT 2000</th>
<th>EASTER 2000</th>
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**PSYCHOLOGY**
(Students)

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

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<thead>
<tr>
<th>Lectures.</th>
<th>Tu. 9 Anatomy School, F. 9 Babbage Lecture Theatre</th>
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<tr>
<td></td>
<td>PROF. B. J. EVERITT</td>
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<tr>
<td></td>
<td>Psychology of Emotion, Anxiety and Depression (Four lectures, 25, 28 Jan., 1, 4 Feb.)</td>
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<td>DR S. BARON-COHEN</td>
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<td>Psychopathology (Six lectures, 8, 11, 15, 18, 22, 25 Feb.)</td>
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<td>DR J. RUSSELL</td>
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<td>Cognitive and Social Development (Two lectures, 29 Feb., 3 Mar.)</td>
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<td>PROF. N. J. MACKINTOSH</td>
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<td>Intelligence (Two lectures, 7, 10 Mar.)</td>
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**SPECIAL VETERINARY PHYSIOLOGY**
(Veterinary Students)

Course Organiser: Dr J. C. D. Hickson E-mail: jdgh1@cam.ac.uk

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<tr>
<th>Lectures.</th>
<th>Tu. 9, S. 10 Physiology Theatre 3</th>
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<tbody>
<tr>
<td></td>
<td>DR A. V. EDWARDS</td>
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<tr>
<td></td>
<td>Introduction; Motility of the ruminant stomach (Four lectures, 22, 25, 29 Jan., 1 Feb.)</td>
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<td>DR J. C. D. HICKSON</td>
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<td>Digestion, absorption and intermediary metabolism in ruminant and non-ruminant herbivores (Seven lectures, 5, 8, 12, 15, 19, 22, 26 Feb.)</td>
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<td>DR A. L. FOWDEN</td>
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<td></td>
<td>Reproduction, pregnancy and parturition in domestic species (Five lectures, 29 Feb., 4, 7, 11, 14 Mar.)</td>
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**Demonstration classes**

W. 2.15 Physiology Lecture Theatre 3 except where otherwise stated. Details will be posted in the Physiological Laboratory at the start of the Lent Term.

**VETERINARY ANATOMY**
(Veterinary Students)

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

<table>
<thead>
<tr>
<th>Lectures.</th>
<th>Th. 9 Biffen Lecture Theatre, Department of Genetics, unless otherwise stated</th>
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<tr>
<td></td>
<td>PROF. W. A. HARRIS AND DR D. WILLIAMS</td>
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<td></td>
<td>The Sense Organs (Five lectures, 7, 12, 14, 19, 21 Oct.)</td>
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<td>MR J. GRANDAGE</td>
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<tr>
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<td>Horns and Antlers (One lecture, 26 Oct.)</td>
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<td>MR J. GRANDAGE</td>
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<td></td>
<td>The Reproductive System (Ten lectures 28 Oct., 2, 4, 9, 11, 16, 18, 23, 25 Nov.); M. 10 (29 Nov.) Anatomy Lecture Theatre</td>
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**Practical Work**

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

**Lectures.**

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<thead>
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<th>Th. 9 Biffen Lecture Theatre;</th>
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<tr>
<td>MR J. GRANDAGE</td>
</tr>
<tr>
<td>Anatomical Anatomy Theatre</td>
</tr>
<tr>
<td>(Six lectures, 2, 3, 8, 9 May)</td>
</tr>
</tbody>
</table>

**Practical Work**

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

**Lectures.**

<table>
<thead>
<tr>
<th>Th. 9 Biffen Lecture Theatre;</th>
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<tbody>
<tr>
<td>MR J. GRANDAGE</td>
</tr>
<tr>
<td>Regional and Surgical Anatomy</td>
</tr>
<tr>
<td>(Six lectures, 2, 3, 8, 9 May)</td>
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</tbody>
</table>

**Practical Work**

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

**Lectures.**

<table>
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<tr>
<th>Th. 9 Biffen Lecture Theatre;</th>
</tr>
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<tbody>
<tr>
<td>MR J. GRANDAGE</td>
</tr>
<tr>
<td>Comparative Vertebrate Anatomy</td>
</tr>
<tr>
<td>(Eight lectures, 20, 27 Jan., 3, 10, 17, 24 Feb., 2, 9 Mar.)</td>
</tr>
</tbody>
</table>

**Practical Work**

The same continued at the following times. M. W. 10–12. In the Veterinary Dissecting Room and other venues.
The Faculty Board of Biology give notice that the following Papers will be available for the examination in 2000, (Reporter, 11 March 1999, p. 471)

**FOUR PAPER SUBJECTS**

**Mechanisms in Disease: from Process to Patient**
Course Organiser: Dr N. Coleman E-mail: nc109@cam.ac.uk, with Dr S. Thiru.
Lecture will start at 10.30 a.m. in the Department of Pathology Lecture Theatre. Complete details will be posted on the Department Web server.

**Pathology**
Course Organiser: Dr M. Clark E-mail: mrc7@cam.ac.uk
This course consists of lectures from relevant options chosen from N.S.T. Part II Pathology (see p. 184).

**Pharmacology**
Course Organiser: Dr J. M. Edwardson E-mail: jme1000@cam.ac.uk
This course consists of lectures from N.S.T. Part II Pharmacology (see p. 185).

**Psychology**
Course Organiser: Dr J. Russell E-mail: j.russell@psychol.cam.ac.uk
This course consists of lectures from N.S.T. Part II Psychology (see p. 189).

**TWO PAPER SUBJECTS**

**Behaviour and Veterinary Ethology**
Course Organiser: Dr J. R. Flowerdew E-mail: j.r.flowerdew@zoo.cam.ac.uk
This course consists of lectures from N.S.T. Part II Zoology (see p. 191).

**Cellular and Molecular Pharmacology**
This course will consist of lectures from N.S.T. Part II Pharmacology (see p. 186), and must be taken together with Pharmacology of Integrated Systems course.

**Clinical Physiology and Neurobiology**
This course consists of lectures from N.S.T. Part II Physiology, Modules 6 and 7 (see p. 188).

**History of Medicine**
Course Organiser: Dr N. Hopwood E-mail: ndh12@hermes.cam.ac.uk
Department of History and Philosophy of Science
This course consist of Papers 7 and 8 from N.S.T. Part II History and Philosophy of Science (see p. 182). Prof. Lipton and Dr Hopwood would like to see all Part II students on Wednesday 6 October at 11 a.m. in Seminar Room 2, Department of History and Philosophy of Science, Free School Lane. Discussion of the special needs for M.V.S.T. Part II students taking History of Medicine will be included in this meeting.

**Human Genetics and Ecology**
This course will consist of Papers B4 and B5 from Part IIB, Biology Anthropology (see p. 205).

**Human Impact on Environment**
Course Organiser: Dr J. R. Flowerdew E-mail: j.r.flowerdew@zoo.cam.ac.uk

**Pharmacology of Integrated Systems**
Course Organiser: Dr J. M. Edwardson E-mail: jme1000@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. 185).

**Primate and Human Evolutionary Biology and Behaviour**
The course will consist of Papers B6 and B7 from Part IIB Biological Anthropology (see p. 205).

**Vertebrate Evolution**
The course will consist of lectures from N.S.T. Part II Zoology (see p. 190).

**THE FOLLOWING TWO PAPER SUBJECTS ARE NOT AVAILABLE FOR EXAMINATION IN 2000:**

- Cellular Pathology (Pathology A)
- Immunology (Pathology B)
- Microbial and Parasitic Disease (Pathology C)
- Virology (Pathology D)
- Genetic Pathology (Pathology E)
MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

ONE PAPER SUBJECTS

Conservation Biology
Course Organiser: Dr A. Balmford E-mail: apb12@cam.ac.uk
The course will consist of lectures from N.S.T. Part II Zoology (see p. 191).

Human Genetics and Variation
This course will consist of lectures from Biological Anthropology, Part IIb, Paper B4 (see p. 205).

Medical Aspects of Neurobiology
Course Organiser: Dr J. W. Fawcett E-mail: jf108@cam.ac.uk
<table>
<thead>
<tr>
<th>LECTURE-LIST–MICHAELMAS TERM 1999 [SPECIAL NO. 2</th>
</tr>
</thead>
</table>

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

**MICHAELMAS 1999**

<table>
<thead>
<tr>
<th>DR R. J. BARNES</th>
<th>Introduction, Starling, Guyton and the circulation</th>
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<tbody>
<tr>
<td></td>
<td>Two lectures, 8, 13 Oct.</td>
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<tr>
<td>DR C. SPEED</td>
<td>Measuring human performance (One lecture, 15 Oct.)</td>
</tr>
<tr>
<td>DR L. SHAPIRO</td>
<td>The heart and exercise (One lecture, 20 Oct.)</td>
</tr>
<tr>
<td>DR J. JENNER</td>
<td>Human muscle and human performance (One lecture,</td>
</tr>
<tr>
<td></td>
<td>22 Oct.)</td>
</tr>
<tr>
<td>PROF. J. T. FITZSIMONS</td>
<td>Odema, shock and heart failure (Three lectures,</td>
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<td></td>
<td>27, 29 Oct., 3 Nov.)</td>
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<tr>
<td>DR J. BRADLEY, DR J. FIRTH AND DR K. SMITH</td>
<td>Aspects of renal disease. (Six lectures, 5, 10, 12,</td>
</tr>
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<td></td>
<td>17, 19, 24 Nov.)</td>
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<tr>
<td>DR S. J. MIDDLETON</td>
<td>Gastro-enterology and chest pain (Two lectures,</td>
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<td></td>
<td>26 Nov., 1 Dec.)</td>
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**LENT 2000**

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<thead>
<tr>
<th>PROF. D. LOMAS AND PROF. E. CHIVERS</th>
<th>Ventricular failure, pulmonary vascular physiology, asthma, bronchitis and emphysema (Five lectures, 21, 26, 28 Jan., 2, 4 Feb.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROF. J. T. FITZSIMONS</td>
<td>Hypertension (Four lectures, 9, 11, 16, 18 Feb.)</td>
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<tr>
<td>DR M. LOWE</td>
<td>Electricity and arrhythmias (Two lectures, 23, 25 Feb.)</td>
</tr>
<tr>
<td>DR M. C. PETCH</td>
<td>Abnormal haemodynamics, myocardial ischaemia and myocardial failure (Three lectures, 1, 3, 8 Mar.)</td>
</tr>
<tr>
<td>DR A. ODURO</td>
<td>Myocardial protection (Two lectures, 10, 15 Mar.)</td>
</tr>
</tbody>
</table>

**EASTER 2000**

**Topics in Clinical Physiology**

Course Organiser: Dr R. J. Barnes E-mail: rbj4@cam.ac.uk

<table>
<thead>
<tr>
<th>W. F. 10 In the Biffin Lecture Theatre unless otherwise stated</th>
</tr>
</thead>
</table>

**THE FOLLOWING ONE PAPER SUBJECTS ARE NOT AVAILABLE FOR EXAMINATION IN 2000:**

- Biology of Parasitism
- Environmental Physiology
- Human Nutrition