

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 (4 Oct.) Professor Sir Keith Peters and Dr D. M. MacDonald (Medical Students) *Anatomy Lecture Theatre*

W. 11 (4 Oct.) Mr J. Grandage, Dr D. M. MacDonald, Dr D. Chivers, Professor L. B. Jeffcott (Veterinary Students) *Biffen Lecture Theatre*

MICHAELMAS 2000

LENT 2001

EASTER 2001

CELL BIOLOGY

Course Organiser: Dr M. Stanley E-mail: mas@mole.bio.cam.ac.uk

All lectures will be given in the Babbage Lecture Theatre

Lectures

DR M. STANLEY AND OTHERS

The cellular society and energy economy. Th. 12-1
(One lecture, 5 Oct.)

Macromolecules – structure and functions. F. 12-1
(One lecture, 6 Oct.)

Basic Mechanisms – DNA to RNA to protein DNA
replication and repair. S. 11-12 (One lecture, 7 Oct.)

Membranes, structure and transport. M. 12-1 (One
lecture, 9 Oct.)

Cell organisation and protein trafficking. Tu. 9-10
(One lecture, 10 Oct.)

Chromosome organisation, control of gene expression.
Tu. 12-1 (One lecture, 10 Oct.)

Cytoskeleton, cell adhesion, cell communication and
Signalling. W. 12-1 (One lecture, 11 Oct.)

Cell division and cell growth. Th. 9-10 (One lecture,
12 Oct.)

Differentiated cells and the maintenance of tissues.
Th. 9-10 (12 Oct.); F. 12-1 (13 Oct.) (Two lectures)

FUNCTIONAL ARCHITECTURE OF THE BODY (Medical Students)

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

At the Anatomy School unless otherwise stated

Lectures. W. F. 9

DR I. G. PARKIN

Anatomy, General Principles and Course Aims. (One
lecture, 6 Oct.)

DR D. COX

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

DR I. G. PARKIN

Musculo-Skeletal System: Bones, Joints and Muscles.
(Two lectures, 13, 18 Oct.)

PROF. A. DIXON

Principles of Radiology. (One lecture, 20 Oct.)

DR I. G. PARKIN

Principles of Body Systems (Nervous and
Cardiovascular). (Two lectures, 25 Oct, 1 Nov.)

DR R. H. WHITAKER

Autonomic Nervous System. (One lecture, 3 Nov.)

DR S. A. EDGLEY

Musculo-Skeletal System: Posture and Gait. (One
lecture, 15 Nov.)

DR I. G. PARKIN

Principles of Lymphatic Drainage and Breast. (One
lecture, 22 Nov.)

DR I. G. PARKIN

Nerve injuries. (One lecture, 24 Nov.)

DR I. G. PARKIN

Principles of Fascia. (One lecture, 29 Nov.)

Special Periods

DR I. G. PARKIN

Clinical Demonstration. Th. 10-12 (30 Nov.)

Lectures. W. F. 9

DR R. H. WHITAKER

Principles of Cranial Nerves. (Two lectures,
19, 24 Jan.)

DR S. J. BRAY

Embryology: Development of Body Plan,
Embryonic Folding, Cranial Facial
Development, Cardiovascular and G.I.T.
(Four lectures, 26, 31 Jan., 21 Feb.,
2 Mar.)

DR R. H. WHITAKER

The Ear. (One lecture, 2 Feb.)

DR R. H. WHITAKER

The Larynx. (One lecture, 7 Feb.)

DR I. G. PARKIN

Chewing and Swallowing. (One lecture, 9 Feb.)

DR R. H. WHITAKER

Peritoneal Development and Abdominal
Cavity Nervous system. (One lecture,
28 Feb.)

DR I. G. PARKIN

Anatomy Changing with Age. (One lecture,
7 Mar.)

Special Periods

DR I. G. PARKIN

Clinical Demonstration. F. 2-4 (16 Mar)

Lectures. W. F. 9

DR R. H. WHITAKER

Rectum and Anal Canal. (One lecture,
27 Apr.)

DR R. H. WHITAKER

Urinary Continence and Incontinence. (One
lecture, 2 May)

DR R. H. WHITAKER

Male Reproductive Tract. (One lecture,
4 May)

DR R. H. WHITAKER

Abdominal Wall, Hernias and Inguinal
Canal (One lecture, 09 May)

DR S. J. BRAY

Embryology (Continued): Urogenital. (One
lecture, 11 May)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

FUNCTIONAL ARCHITECTURE OF THE BODY (continued)**Practical Work**

Dissection and Prosections*. Times according to options.
Allocation of Cadavers and Introduction to Anatomy. W. 10 (4 Oct.)
Dissection/Prosection Vertebral Column. Th. 10–12 (5 Oct.); or F. 2–4 (6 Oct.)
Anatomy of Procedures. W. 10–12 or 2–4 (fortnightly).

Practical Work

Dissection and Prosections*

Anatomy of Procedures. The same continued

Practical Work

Dissection 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.

HISTOLOGY

Course organiser: Dr J. T. Tiffert E-mail: jtt1000@cam.ac.uk

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. (weeks 1, 2)
2. Cell classification; nerve. (weeks 3, 4)
3. Neuromuscular junction; striated, cardiac and smooth muscle. (weeks 5, 6)
4. Blood and blood vessels. (weeks 7, 8)

Practical Work Department of Physiology

1. Respiratory system. (weeks 1, 2)
2. Kidney and bladder. (weeks 3, 4)
3. Hypothalamus, pituitary and adrenal gland. (weeks 5, 6)
4. Gastrointestinal system; exocrine and endocrine pancreas. (weeks 7, 8)

Practical Work Department of Physiology

1. Skin; liver and gall bladder; thyroid and parathyroid. (weeks 1, 2)
2. Revision. (weeks 3, 4)

HOMEOSTASIS

Course organiser: Dr R. H. S. Carpenter E-mail: rhescl@cam.ac.uk

Lectures. Tu, Th, F. 12 Babbage Lecture Theatre

PROF. R. C. THOMAS

Communication and homeostasis. (Six lectures, 17–27 Oct.)

DR C. L-H. HUANG

Muscle. (Five lectures, 31 Oct.–9 Nov.)

DR R. J. BARNES

Heart and circulation. (Nine lectures, 10–30 Nov.)

Lectures. Tu, Th, F. 12 Babbage Lecture Theatre

DR R. L. TAPP

Respiration. (Nine lectures, 18 Jan.–6 Feb.)

DR J. W. FAWCETT

Fluids and electrolytes. (Ten lectures, 8 Feb.–1 Mar.)

DR R. L. TAPP

Digestion, absorption and storage. (Six lectures, 2–15 Mar.)

Lectures. Tu, Th, F. 12 Babbage Lecture Theatre

DR S. L. DICKSON

Energy balance and growth. (Four lectures, 26 Apr.–3 May)

DR R. I. WOODS

Temperature control. (Two lectures, 4, 8 May)

Practical Work

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

Practical Work

The same continued

Practical Work

The same continued

MOLECULES IN MEDICAL SCIENCE

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

All lectures are given in the Babbage Lecture Theatre, New Museums Site

Except where noted at *, lectures are M. 12, Tu, Th. 9
Three lectures noted at *, are W. 12

Metabolism in health and disease

PROF. K. SIDDLE

Prologue. Diabetes mellitus as a metabolic disease. (Two lectures, 16, 18* Oct.)

DR N. J. GRAY

Enzymes as catalysts. (Three lectures, 19, 23, 25 * Oct.)

DR P. H. RUBERY

Bioenergetics and metabolism. (Eight lectures, 26 Oct.–13 Nov.)

DR M. O'CONNELL

Nutrition. (Two lectures, 14–16 Nov.)

PROF. R. F. IRVINE

Membrane dynamics and function; signalling by hormones. (Five lectures, 20–28 Nov.)

PROF. K. SIDDLE

Epilogue. (One lecture, 30 Nov.)

Macromolecules in health and disease

PROF. J. C. METCALFE

Prologue. Cancer as a molecular disease. (Two lectures, 18–22 Jan.)

DR C. O'KANE

Organisation and replication of genome. (Four lectures, 23–30 Jan.)

DR N. M. STANDART

Transcription, translation and control. (Five lectures, 1–12 Feb.)

DR N. J. GRAY

Structure and function of proteins. (Four lectures, 13–20 Jan.)

PROF. A. H. WYLLIE

Control of proliferation, proto-oncogenes and cancer. (Three lectures, 22–27 Feb.)

DR D. TRUMP AND OTHERS

Transmission of genetic inheritance and the experimental tools of molecular genetics. (Four lectures, 1, 5, 6, 7* Mar.)

Macromolecules in health and disease (continued)

DR D. TRUMP AND OTHERS

Transmission of genetic inheritance and the experimental tools of molecular genetics, continued. (One lecture, 26 Apr.)

DR A. M. TOLKOVSKY

Applications and implications of genome projects. (Two lectures, 30 Apr., 1 May)

DR D. W. MACDONALD

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

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

Department of Biochemistry, Downing Site

continued >

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

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 163.

VETERINARY ANATOMY AND PHYSIOLOGY
(Veterinary Students)

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

*In the Biffen Lecture Theatre, Department of Genetics, unless otherwise stated***Lectures.** M. W. F. 9, Tu. 2.

DR C. J. CHIVERS AND MR J. GRANDAGE
Introduction (Two lectures, 6, 9 Oct.)
DR D. J. CHIVERS, MR J. GRANDAGE AND DR J. M. HOLMES
The Locomotor System. (Ten lectures, 11, 13, 16, 18, 23,
25, 30 Oct., 1, 20, 21 Nov.)
DR S. J. BRAY AND DR D. TANNAHILL
Development. (Three lectures, 6, 8, 13 Nov.)
DR J. M. HOLMES
The Nervous System. (Three lectures, 22, 27, 29 Nov.)

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, Tu. 2

MR J. GRANDAGE AND DR J. M. HOLMES
The Cardiovascular System. (Five lectures,
19, 23, 24, 29, 31 Jan.)
DR S. J. BRAY
Development. (Two lectures, 22 Jan., 19 Feb.)
DR J. H. BRACKENBURY
The Respiratory System. (Four lectures, 5, 7,
12, 14 Feb.)
MR J. GRANDAGE
Urinary System. (Two lectures, 21, 26 Feb.)
DR D. J. CHIVERS
The Digestive System. (Four lectures, 28 Feb.,
5, 7, 12 Mar.)

Practical Work

The same continued

Lectures. M. W. F. 9

DR D. J. CHIVERS, DR A. EDWARDS,
DR J. HICKSON
The Digestive System. (Eight lectures,
27, 30 Apr., 2, 4, 9, 11, 14, 16 May.)

Practical Work

The same continued

SECOND M. B. EXAMINATION**INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE**

Course Co-ordinator: Dr T. W. Davies E-mail: twd10@medschl.cam.ac.uk

Lectures*Babbage Lecture Theatre*

PROF. P. LIPTON, DR T. W. DAVIES AND DR C. PALMER
Tu. 9 (Two lectures, 17, 24 Oct.); W. 12 (Five
lectures, 1, 8, 15, 22, 29 Nov.)

DR T. W. DAVIES AND INVITED SPEAKERS
W. 12 (Three lectures, 24, 31 Jan., 7 Feb.)

MEDICAL SOCIOLOGY

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

Lectures are being replaced by computer based distance learning material, based on the previous ten lecture course.

The material will be available to those wishing to take the course at:

<http://www.medgraphics.cam.ac.uk/medsoc/>

For enquiries please telephone:

Dr T. W. Davies (30318) E-mail: twd10@medschl.cam.ac.uk

Dawn Leeder (700-3561) E-mail: dcl25@cam.ac.uk

PREPARING FOR PATIENTS

Course Organiser: Dr G. Watson E-mail: gw226@medschl.cam.ac.uk

For information on the preparation sessions, GP practice sessions and review sessions contact the course organiser.

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MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued) AND PART IB

MICHAELMAS 2000

LENT 2001

EASTER 2001

SECOND VET. M.B. EXAMINATION**FARM ANIMAL HUSBANDRY**

Course Organiser: Dr M. A. Holmes E-mail: mah1@cam.ac.uk

Lectures will take place in the Biffen Lecture Theatre, Department of Genetics

Details of practicals and computer aided learning elements of the course will be communicated to students at the beginning of the course.

DR M. A. HOLMES, DR C. J. C. PHILLIPS AND OTHERS
Lectures. F. 9 (Six lectures, 20, 27 Oct.,
3, 10, 17, 24 Nov.)

DR M. A. HOLMES, DR C. J. C. PHILLIPS AND
OTHERS
Lectures. Tu. 2, Th. F. 9 (Eleven lectures, 26
Jan., 2, 9, 16, 20, 23, 27 Feb., 2, 8, 9, 13
Mar.)

PREPARING FOR THE VETERINARY PROFESSION

Course Organiser: Mrs P. Watson E-mail: pjw36@hermes.cam.ac.uk

Lectures will take place in the Biffen Lecture Theatre, Department of Genetics

Arrangements for animal handling practicals will be communicated to students at the beginning of the course.

MRS P. WATSON, PROF. D. M. BROOM AND OTHERS
Lectures. Tu. 2 (Four lectures, 17, 24, 31 Oct., 7 Nov.)

PART IB**DEVELOPMENTAL BIOLOGY FOR MEDICINE**
(Medical Students)

Course Organiser: Dr R. White E-mail: rw108@cam.ac.uk

Lectures. M. W. F. 9 *Babbage Lecture Theatre*

DR S. J. BRAY

Introduction. (One lecture, 30 Oct.)

DR R. J. KEYNES

The Body Plan/Head and Neck Development. (Three
lectures, 1, 3, 6 Nov.)

PROF. W. A. HARRIS

Sensory Development/The Visual System. (Two lectures,
8, 10 Nov.)

DR N. BROWN

Tissue Construction/The Skin. (One lecture, 13 Nov.)

DR D. TANNAHILL

Limb and Bone Development. (Two lectures,
15, 17 Nov.)

DR P. SCHOFIELD

Organ Development/The Kidney. (Two lectures,
20, 22 Nov.)

DR P. SCHOFIELD

Growth Control and Growth Defects. (Two lectures,
24, 27 Nov.)**Practicals**

1. M. 10–12, 2–4 (6 Nov.), M. 10–12, 2–4 (13 Nov.)
Pathology Laboratory
2. Th. 2–4 (23 Nov.), F. 10–12 (24 Nov.) M. 10–12, 2–4
(27 Nov.)
Anatomy (Procedures Laboratory)
3. Forum: Congenital abnormalities. W. 9 (29 Nov.)
Babbage Lecture Theatre

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1b (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

ENDOCRINOLOGY, MEDICAL ETHICS AND HUMAN REPRODUCTION
(Medical Students)

Course Organiser: Dr R. J. Barnes E-mail: rjb4@emma.cam.ac.uk

Lectures. M. W. F. 9–10 *Babbage Lecture Theatre*; Tu. Th. S. 9–10 *Anatomy Lecture Theatre*

DR D. COX

Biomedical Ethics (One lecture, 5 Oct.)

DR A. L. R. FINDLAY

Endocrinology (Eight lectures, 6, 9, 11, 13, 16, 18, 20, 23 Oct.)

DR D. COX

Biomedical Ethics (Four lectures, 10, 12, 17, 19 Oct.)

DR A. L. FOWDEN

Human Reproduction (Six lectures, 24, 26, 28, 31 Oct., 2, 4 Nov.)

Endocrinology (Two lectures, 25, 27 Oct.)

DR G. BURTON

Fertilisation and Implantation (Five lectures, 7, 9, 11, 14, 16 Nov.)

DR R. J. BARNES

Pregnancy, Parturition and Lactation (Four lectures, 18, 21, 25, 28 Nov.)

Practical Work

Tu. 10–12 and 2–4, Th. 10–12 or F. 2–4. (A detailed timetable will be posted in the departments of Physiology and Anatomy.)

Endocrinology Practical Histology. Tu. 10–12 and 2–4; Th. 10–12 (12, 17 Oct.)

Endocrinology Practical Histology or Metabolic consequences of eating. Tu. 10–12 and 2–4; Th. 10–12 (19, 24, 26, 31 Oct.)

Medical Ethics Seminar. Th. F. 2–4 (19, 20 Oct., 9, 10 Nov.) *Anatomy Lecture Theatre*

Male Reproduction Histology. Tu. 10–12 and 2–4; Th. 10–12 (2, 7 Nov.)

Female Reproduction Histology. Tu. 10–12 and 2–4; Th. 10–12 (9, 14 Nov.)

Placenta Histology. Tu. 10–12 and 2–4; Th. 10–12 (16, 21 Nov.)

GENERAL VETERINARY PHYSIOLOGY

Course organiser: Dr J. C. D. Hickson E-mail: jcdhl@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, 6–27 Oct.) *Babbage Lecture Theatre*

MR T. CARTER

Reproduction. (Eight lectures, 30 Oct.–15 Nov.)

DR J. C. D. HICKSON

Fetal, Neonatal and Maternal Physiology. (Six lectures, 17–29 Nov.)

Practical Work

Th. 2–4

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

DR H. R. MATTHEWS

Synapses and Sensory Receptors. (Four lectures, 19–26 Jan.)

DR H. R. MATTHEWS

Neurophysiology of Vision. (Six lectures, 29 Jan.–9 Feb.)

DR D. J. TOLHURST

Somatic Sensation and Pain. (Four lectures, 12–19 Feb.)

DR D. J. TOLHURST

Control of Movement and Posture. (Six lectures, 21 Feb.–5 Mar.)

PROF. A. C. CRAWFORD

Hearing. (Four lectures, 7–14 Mar.)

Practical Work

Tu. Th. 2–4 or Th. 10–12, 2–4

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

DR H. R. MATTHEWS

Taste and Smell. (One lecture, 27 Apr.)

DR J. H. ROGERS

Developmental Neurobiology. (Four lectures, 30 Apr.–7 May)

Practical Work

Th. 2–4

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IB (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

NEUROBIOLOGY
(Medical Students)

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

Lectures. M. W. F. 9 *Babbage Lecture Theatre*;
Tu. Th. 9, S. 11 *Department of Anatomy*
DR R. J. KEYNES
Introduction to the Brain. (One lecture,
18 Jan.)
PROF. R. C. THOMAS
The Excitable Cell. Sensory Receptors. (Four
lectures, 19, 20, 22, 24 Jan.)
DR A. L. R. FINDLAY
The Somatic Sensory System. Pain. (Five
lectures, 25, 27, 29, 31 Jan., 1 Feb.)
DR S. A. EDGLEY
The Motor System. (Nine lectures, 3, 5, 7, 8,
10, 12, 14, 15, 17 Feb.)
DR R. C. HARDIE
The Visual System. (Seven lectures, 19, 21, 22,
24, 26, 28 Feb., 1 Mar.)
PROF. A. C. CRAWFORD
The Auditory System. (Three lectures,
3, 5, 7 Mar.)
DR A. ROBERTS
Neurobiology of Emotion. (Three lectures,
8, 10, 12 Mar.)
DR R. J. KEYNES
Blood-brain Barrier. Cerebrospinal Fluid and
Cerebral Blood Flow. (Two lectures,
13, 14 Mar.)

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

Lectures. M. F. 9 *Babbage Lecture Theatre*;
Tu. Th. 9 *Department of Anatomy*
DR H. R. MATTHEWS
Olfaction and Taste. (One lecture, 26 Apr.)
DR J. ROGERS
Development, Plasticity and Repair of the
Nervous System. (Four lectures, 27, 30
Apr., 1, 3 May.)
DR A. ROBERTS
Neurobiology of Cognition. (Two lectures,
4, 7 May.)
Lectures. Tu. Th. 12 *Department of*
Physiology; M. W. 12 *Department of*
Anatomy
DR R. H. S. CARPENTER
Cerebral Cortex and Thalamus. Reticular
Formation and Sleep. (Five lectures,
26, 30 Apr., 1, 2, 3, May.)
DR A. ROBERTS
Neurobiology of Cognition. (Two lectures,
7, 8 May.)

Practical Work
Class times as for Lent Term

PATHOLOGY

Course organiser: Dr B. Kingston E-mail: ibk@mole.bio.cam.ac.uk

Lectures. M. W. F. 12 *Chemical Laboratory Lecture*
Theatre
PROF. A. H. WYLLIE
Introduction (One lecture, 6 Oct.)
PROF. A. H. WYLLIE
Cell Injury
Mechanisms of Acute Inflammation
Healing
Persistent Inflammation (Four lectures, 9 Oct.–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
Transplantation. Blood Groups
Immunity and Immunisation (Eleven lectures,
18 Oct.–10 Nov.).
PROF. A. C. MINSON
The Structure and Replication of Viruses
Effects on the Host Cell
Acute Virus Infection
The Response to Infection
Persistent and Latent Infection
Mechanisms of Viral Pathogenesis
Control of Virus Infection
Prions and Transmissible Spongiform Encephalopathies
(Eight lectures, 13 Nov.–29 Nov.)

Lectures. M. W. F. 12 *Chemical Laboratory*
Lecture Theatre
DR R. W. LE PAGE
Bacterial Agents of Infectious Disease
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,
17 Jan.–2 Feb.).
DR N. COLEMAN
Tuberculosis: Granulomatous Disease (One
lecture, 5 Feb.).
DR D. DUNNE
Introduction to Parasite Infections
Host–Parasite Interactions
Metazoan Parasite Diseases
Protozoan Parasite Diseases (Four lectures,
7 Feb.–14 Feb.).
DR N. COLEMAN
Disorders of Red Blood Cells
Thrombosis and Embolism
Arterial Disease
Heart Failure and Hypertension
Ischaemia and Infarction (Five lectures,
16 Feb.–26 Feb.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART 1B (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

PATHOLOGY (continued)

Lectures. (continued)

DR M. ARENDS
Principles of Growth Dysregulation
Nomenclature and Behaviour of Neoplasms
Invasion, Angiogenesis and Metastasis
Carcinogenesis: Population and Molecular
Epidemiology (Four lectures,
28 Feb.–7 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, 9 Mar.–16 Mar.)

Practical Work *Department of Pathology*

Tu. 10–12 and Th. 2–4 or Tu. 2–4 and
Th. 10–12 or Tu. 10–12 and Th. 10–12
or Tu. 2–4 and Th. 2–4 or W. and 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
Tu. 10–12 and Th. 10–12 or Tu. 2–4 and Th. 2–4 or
W and 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 Tu. 10–12 and Th. 10–12
or Tu. 2–4 and Th. 2–4 or W. and 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 Lecture Theatre*

PROF. P. A. McNAUGHTON
Introduction. (One lecture, 5 Oct.)

DR J. M. EDWARDSON
Drug Interactions with Receptors and Ion Channels.
(Eight lectures, 7–24 Oct.)

DR R. M. HENDERSON
Mechanisms and Pharmacology of Neural
Transmission. (Six lectures, 26 Oct.–7 Nov.)

DR C. R. HILEY
Cardiovascular and Renal Pharmacology. (Nine lectures,
9–28 Nov.)

Practical Work. M. 2–5 or F. 2–5. A detailed timetable
will be posted in the Department

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

DR S. B. HLADKY
Pharmacokinetics and Drug Metabolism.
(Five lectures, 18–27 Jan.)

DR J. M. YOUNG
Pharmacology of Inflammation and
Immunosuppression. (Five lectures,
30 Jan.–8 Feb.)

DR M. A. BARRAND
Chemotherapy. (Five lectures, 10–20 Feb.)

DR A. J. MORTON*
Central Nervous System. (Medical students)
(Nine lectures, 22 Feb.–13 Mar.)

DR C. BRYANT†
Veterinary Pharmacology. (Two lectures,
22, 24 Feb.)

DR P. THORN†
Central Nervous System. (Veterinary students)
(Five lectures, 27 Feb.–8 Mar.)

DR R. J. EVANS†
Anthelmintics (Veterinary students) (Two
lectures, 10–13 Mar.)

Practical Work. The same continued.

PSYCHOLOGY

(Medical Students)

Course Organiser: Prof. T. W. Robbins E-mail: twr2@cus.cam.ac.uk

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

PROF. T. W. ROBBINS
Psychobiology of Emotion, Anxiety and
Depression (Four lectures, 23, 26, 30 Jan.,
2 Feb.)

DR M. A. O'RIORDAN
Psychopathology (Six lectures, 6, 9, 13, 16, 20,
23 Feb.)

DR K. C. PLAISTED
Cognitive and Social Development (Two
lectures, 27 Feb., 2 Mar.)

PROF. N. J. MACKINTOSH
Intelligence (Two lectures, 6, 9 Mar.)

Lectures. W. 9, F. 12 *Anatomy School*

DR R. A. MCCARTHY
Neuropsychology (Three lectures,
2, 4, 9 May)

A. N. OTHER
Memory and Attention (Three lectures,
11, 16, 18 May)

* 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 2000

LENT 2001

EASTER 2001

SPECIAL VETERINARY PHYSIOLOGY

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

Lectures. Tu. 9, S. 10 *Physiology Lecture Theatre 3*

DR A. V. EDWARDS

Introduction: Motility of the Ruminant Stomach. (Four lectures, 20, 23, 27, 30 Jan.)

DR J. C. D. HICKSON

Digestion, Absorption and Intermediary Metabolism in Ruminant and Non-ruminant Herbivores. (Seven lectures, 3, 6, 10, 13, 17, 20, 24, Feb.)

DR A. L. FOWDEN

Reproduction, Pregnancy and Parturition in Domestic Species. (Five lectures, 27 Feb., 3, 6, 10, 13 Mar.)

Demonstration classesW. 2.15 *Physiology Lecture Theatre 3*, except where otherwise stated

DR R. J. M. FRANKLIN

Clinical Relevance of Neurophysiology. (24 Jan.)

DR A. V. EDWARDS

Feeding Responses in Ruminants (31 Jan.)

DR A. V. EDWARDS AND DR J. C. D. HICKSON

Histology of the Ruminant Gut. Tu. 2.15 (6 Feb.) *Histology Room*

DR A. V. EDWARDS AND DR J. C. D. HICKSON

Revision Seminar. Herbivore Digestion. (28 Feb.)

DR D. A. GIUSSANI

Preparing and Presentation. (8 Mar.)

Lectures. Th. 9 *Physiology Lecture Theatre 3*

DR A. J. FORHEAD

Reproduction and Lactation in Marsupials. (One lecture, 26 Apr.)

PROF. A. D. CARE

Calcium Metabolism in Ruminants - Physiological Basis of Milk Fever. (One lecture, 3 May)

DR A. J. FORHEAD

Lactation and Transfer of Passive Immunity. (Two lectures, 10, 17 May)

Demonstration classesW. 2.15 *Physiology Lecture Theatre 3*

PROF. A. D. CARE

Acute Ruminant Hypoglycaemia - its Physiological Basis. W. 3.30 (One class, 2 May)

DR A. V. EDWARDS, DR A. L. FOWDEN AND

DR J. C. D. HICKSON

Revision Seminar Lent Term Lectures.

(9 May)

VETERINARY ANATOMY

(Veterinary Students)

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

*In the Biffen Lecture Theatre, Department of Genetics, unless otherwise stated***Lectures.** Tu, Th. 9, W. 10 *Biffen Lecture Theatre, M. 10 Anatomy Lecture Theatre*

PROF. W. A. HARRIS AND DR S. J. BRAY

Development Biology. (Two lectures, 5, 24 Oct.)

DR J. M. HOLMES AND MR J. GRANDAGE

The Sense Organs. (Four lectures, 10, 12, 17, 19 Oct.)

MR J. GRANDAGE AND DR G. J. BURTON

The Reproductive System. (Nine lectures, 25, 26, 31, Oct., 2, 7, 9, 14, 16, 20 Nov.)

MR J. GRANDAGE

Integumentary System. (Three lectures) (21 Nov.); W. 2-3 (22 Nov.) *Anatomy Lecture Theatre***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 *Biffen Lecture Theatre, M. W. 10 Anatomy Lecture Theatre*

MR J. GRANDAGE

Regional Anatomy. (Six lectures, 18, 22, 24, 29 Jan., 1 Feb.); (25 Jan.) *Anatomy Lecture Theatre*

DR J. H. BRACKENBURY

Comparative Vertebrate Anatomy. (Five lectures, 8, 15, 22 Feb., 1, 8, Mar.)

Practical WorkThe same continued at the following times. M. W. 10-12. *In the Veterinary Dissecting Room and other venues***Lectures.** Tu. 9

DR J. H. BRACKENBURY

Comparative Vertebrate Anatomy. (Three lectures, 1, 8, 15 May.)

Practical WorkThe same continued at the following times. M. W. 10-12. *In the Veterinary Dissecting Room and other venues*

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II

MICHAELMAS 2000

LENT 2001

EASTER 2001

Introductory Session. W. 2-3.30 *Demonstration Theatre (Theatre 3), Department of Physiology*

The Faculty Board of Biology give notice that the following Papers will be available for the examination in 2001, (*Reporter*, 9 February 2000, p. 430).

FOUR PAPER SUBJECTS**Epidemiology**Course Organiser: Prof. K-T. Khaw E-mail: kk101@medschl.cam.ac.uk

See course organiser for details.

Mechanisms of Disease: from Process to PatientCourse Organiser: Dr J. Xuereb E-mail: jhx1000@cam.ac.uk

Lectures will be held at 10.30 a.m. daily in the *Lecture Theatre, Department of Pathology*. Seminars and Case Studies will be held in the same venue at 1.30 p.m. (see Departmental web site for the lecture list, and timetable of case studies/seminars). Copies of the lecture list may be obtained from Dr J. Xuereb, E-mail jhx1000@cam.ac.uk.

PathologyCourse Organiser: Dr I. Brierley E-mail: ib103@mole.bio.cam.ac.uk

This course consists of lectures from the relevant options chosen from N.S.T. Part II Pathology (see p. 190).

Option A Cellular and Genetic Pathology
Option B Immunology
Option C Microbial and Parasitic Disease
Option D Virology

PharmacologyCourse 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. 191).

PsychologyCourse Organiser: Prof. A. Dickinson E-mail: ad15@cus.cam.ac.uk

This course consists of lectures from N.S.T. Part II Psychology (see p. 196).

TWO PAPER SUBJECTS**Cellular and Molecular Pharmacology**

This course of lectures from N.S.T. Part II Pharmacology (see p. 192), 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. 194).

History of Medicine, Body and MindCourse Organiser: Dr N. Hopwood E-mail: ndh12@hermes.cam.ac.uk

This course will consist of Papers 7 and 8 from Part II History and Philosophy of Science (see p. 188). Prof. P. Lipton and Dr N. Hopwood would like to see all Part II students on Wednesday 4 October at 11 a.m. in *Seminar Room 2, Department of History and Philosophy of Science, Free School Lane*. Discussion of the special needs of M.V.S.T. Part II students taking the Two Paper Subject in History of Medicine will be included in this meeting.

Human Genetics and Ecology

This course will consist of Papers B4 and B5, from Part II B Biological Anthropology (see p. 213).

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

DR W. AMOS, DR B. T. GRENFELL, DR P. ROHANI,
DR J. SWINTON AND DR R. JOHNSTONE
Population Biology. M. W. F. 5 (Twenty-four lectures)
Department of Plant Sciences

DR M. BROOKE, DR D. BRIGGS, DR W. AMOS,
DR A. BALMFORD, DR E. V. J. TANNER,
DR J. O'SULLIVAN AND DR I. HODGE
Conservation Biology. M. W. F. 5 (Twenty-
four lectures) *Department of Zoology*

DR J. R. FLOWERDEW AND MR I. T. LAWSON
Human Impact on the Environment.
M. W. F. 5 (Twelve lectures) *Department
of Zoology*

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

PathologyCourse Organiser: Dr I. Brierley E-mail: ib103@mole.bio.cam.ac.uk

This course consists of lectures taken from the relevant options in N.S.T. Part II Pathology (see p. 190):
 Option A Cellular and Genetic Pathology
 Option C Microbial and Parasitic Disease

Pharmacology of Integrated SystemsCourse 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. 191).

Primate and Human Evolutionary Biology and Behaviour

This course will consist of Papers B6 and B7, from Part IIB Biological Anthropology (see p. 213).

ONE PAPER SUBJECTS**Biology of Parasitism**Course Organiser: Dr S. Lloyd E-mail: ssl1000@hermes.cam.ac.uk

Lectures will take place in the Department of Clinical Veterinary Medicine, Madingley Road, on M. W. F. 5

DR S. LLOYD AND LORD SOULSBY

Introduction

The importance of Parasitism (Lecture 1)
 Routes of Transmission (Lecture 2)
 Development within an intermediate host (Lecture 3)
 Parasite Morphology, Classification and Life Cycles
 (Lectures 4, 5)

Infection Mechanisms and Establishment

Exsheathment and Hatching Mechanisms, and Parasite
 Recognition (Lectures 6, 7, 8)
 Parasite Development in Relation to Season, and
 Hypobiosis (Lectures 9, 10)
 Parasite Population Stability (Lecture 11)

**Immunity in Parasitic Infections and Pathogenic
Relationship**

The effect of Parasitism on the Gastrointestinal Tract,
 and Growth and Development of the Host
 (Lectures 12, 13)
 Anaemia in Parasitism (Lecture 14)
 Intermediate Host Responses to Parasitic Infection
 (Lecture 15)
 Immune Mechanisms against Arthropods/Immunology
 (Lecture 16)
 Immune Mechanisms to Tissue Helminths and Protozoa
 (Lectures 17, 18)
 Mechanisms of Immunity to Gastrointestinal Helminths
 (Lecture 19)
 Survival of Helminths and Protozoa in the
 Immunocompetent Host (Lecture 20)
 Immunopathological responses in Helminths and
 Protozoa (Lecture 21)

Zoonoses

Taeniasis, Echinococcosis, Toxocariasis and other Larva
 Migrans, Toxoplasmosis, Trichinellosis and
 Miscellaneous Nematodes, Fish borne infections,
 and Water borne Infections (Lectures 22–24)

Zoonoses

Taeniasis, Echinococcosis, Toxocariasis and
 other Larva Migrans, Toxoplasmosis,
 Trichinellosis and Miscellaneous
 Nematodes, Fish borne infections, and
 Water borne infections (Lectures 25–28)

Prospects for Control of Parasitic Diseases

Chemotherapy (Lectures 29, 30)
 Biological Control and Importance of
 Symbionts (Lectures 31, 32)
 Vaccination and Diagnosis (Lectures 33, 34)
 Parasitism in relation to Environment,
 Customs, Agriculture, Food Supply
 (Lecture 35)

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

This course will consist of lectures from N.S.T. Part II Zoology (see p. 197).

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2000

LENT 2001

EASTER 2001

Human Genetics and Variation

This course will consist of lectures from Paper B4, Part II B Biological Anthropology (see p. 213).

Medical Aspects of Neurobiology

Course Organiser: Dr C. L-H. Huang E-mail: clh11@cus.cam.ac.uk

This course will consist of lectures from Module 7, N.S.T. Part II Physiology (see p. 194).

Medicine, Ethics and Law

Course Co-ordinator: Mr J. L. Caddick E-mail: jlc24@cam.ac.uk

DR J. KEOWN

Medical Law. Th. 4 *Law Faculty*

MR J. L. CADDICK

Medical Ethics. Tu. 4 *Biffen Lecture Theatre,
Department of Genetics*

The same continued. Th. 4 *Law Faculty*

The same continued. Tu. 4 *Department of
Genetics*

Medicine, Health and Illness

Course Organiser: Prof. B. Turner E-mail: bst22@cam.ac.uk

This course will consist of lectures from Paper 19, Part II of the Social and Political Sciences Tripos (see p. 126).

Topics in Clinical Physiology

Course Organiser: Dr C. L-H. Huang E-mail: clh11@cus.cam.ac.uk

This course will consist of lectures from Module 6, N.S.T. Part II Physiology (see p. 194).