

NATURAL SCIENCES TRIPOS, PART II

MICHAELMAS 2008

LENT 2009

EASTER 2009

ASTROPHYSICS

Course organiser: Dr C. D. Mackay (email: cdm@ast.cam.ac.uk)
 Course website: <http://www.ast.cam.ac.uk/teaching/undergrad/courseguide.html>

All lectures will be delivered in *the Raymond and Beverly Sackler Lecture Theatre, Hoyle Building, Institute of Astronomy* except * which will be held in the *Centre for Mathematical Sciences meeting rooms (MR)* and † in the *Pippard Lecture Theatre at the Cavendish Laboratory (West Cambridge)*.

DR D. A. RITCHIE†
 Advanced Quantum Physics. M. W. Th. 9
 DR M. HAEHNELT
 Theory of Relativity. Tu. Th. F. 10
 DR C. D. MACKAY
 Topics in Astrophysics. Tu. Th. F. 11
 PROF. E. P. S. SHELLARD*
 Cosmology. M. W. F. 12 MR3
 DR S. J. COOLEY*
 Computational Projects. M. W. F. 2 (6 lectures) MR2

PROF. C. J. CLARKE
 Astrophysical Fluid Dynamics. M. W. F. 9
 PROF. G. F. GILMORE
 Stellar Dynamics and Structure of Galaxies. M.
 Th. 10, W. 11
 DR S. C. CHAPMAN
 Structure and Evolution of Stars. Tu. W. F. 10
 DR M. WINGATE*
 Statistical Physics. (16 lectures) Tu. Th. 11 MR9

BIOCHEMISTRY

BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR SUBJECT BIOCHEMISTRY

Course Organiser: Prof. C. J. Howe (email: ch26@mole.bio.cam.ac.uk)
 Course website: <http://www.bio.cam.ac.uk/teaching/partii/index>

Lectures are given in the *Department of Biochemistry, Downing Site building*.

The course starts with an introductory lecture by PROF. SIR TOM BLUNDELL at 9 a.m. on M. 6 October.

Core course lectures take place at 9 a.m. and 10.30 a.m. unless stated otherwise. Option course lectures take place throughout the day in Lent Term. Detailed time-tables will be posted in the Department of Biochemistry.

Core lectures

PROF. E. D. LAUE
 Aspects of protein structure: genome to proteome (Five lectures, beginning 6 Oct.)
 DR M. WELCH
 Thermodynamics refresher for biochemists (One lecture, 10 Oct. at 2.00 p.m.)
 DR D. NIETLSPACH
 Chemistry refresher for biochemists (One lecture, 10 Oct. at 3.30 p.m.)
 PROF. C. W. J. SMITH
 Eukaryotic mRNA synthesis (Five lectures, beginning 13 Oct.)
 PROF. C. J. HOWE
 Gene expression in plants (Four lectures, beginning 13 Oct., at 12.00 on 13, 15 Oct.)

 DR B. F. LUISI
 Protein synthesis and translational control (Five lectures, beginning 20 Oct.)
 DR L. PELLEGRINI
 DNA recombination and repair (Four lectures, beginning 20 Oct.)

 DR A. D. J. SCADDEN
 RNAi and microRNAs (Three lectures, beginning 24 Oct.)
 DR A. A. GRACE
 Disease genes: function and manipulation (Two lectures, beginning 27 Oct.)

Options lectures

- PROF. G. P. C. SALMOND AND OTHERS
 Bacterial virulence and antimicrobial chemotherapy (Fifteen lectures)
 Option Organiser: Prof. G. P. C. Salmond
- PROF. J. O. THOMAS AND OTHERS
 Proteins, nucleic acids and their interactions (Fifteen lectures)
 Option Organiser: Prof. J. O. Thomas
- DR J. HIRST AND OTHERS
 Mitochondria and bioenergetics (Fifteen lectures)
 Option organiser: Dr J. Hirst
- DR P. DUPREE AND OTHERS
 Plant cell and molecular biology (Fifteen lectures)
- PROF. C. W. J. SMITH AND OTHERS
 Control of gene expression in eukaryotes (Fifteen lectures in part joint with Part II Zoology.)
 Option Organisers: Prof. C. W. J. Smith and Dr T. Krude
- PROF. K. SIDDLE AND OTHERS
 Medical biochemistry – Obesity & diabetes from genes to pathology (Fifteen lectures)
 Option Organiser: Prof. K. Siddle
- DR F. HOLLFELDER AND OTHERS
 Enzyme mechanisms and chemical biology (Fifteen lectures)
 Option Organiser: Dr F. Hollfelder
- DR T. R. HESKETH AND OTHERS
 Cancer – Oncogenes, tumour suppressor genes, apoptosis and carcinogenesis (Fifteen lectures in part joint with Option A (module 3) of Part II Pathology.)
 Option Organisers: Dr T. R. Hesketh and Dr P. Edwards
- DR F. R. LIVESSEY AND OTHERS
 Stem cell biology (Fifteen lectures)
 Option Organiser: Dr F. R. Livesey
- PROF. T. L. BLUNDELL AND OTHERS
 Biotechnology (Fifteen lectures)
 Option Organiser: Dr K. Lilley

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DR T. R. HESKETH
Signalling pathways in eukaryotic cells (Four lectures, beginning Oct. 29)

DR P. DUPREE
Protein targeting to the ER (Three lectures, beginning 29 Oct.)

PROF. P. F. LEADLAY
Enzyme structure and function (Five lectures beginning 3 Nov.)

PROF. K. M. BRINDLE
Molecular imaging (Three lectures, beginning 5 Nov.)

DR A. P. JACKSON
Protein sorting (Five lectures, beginning 10 Nov.)

PROF. G. P. C. SALMOND
Bacterial signalling systems (Four lectures, beginning 10 Nov.)

PROF. J. O. THOMAS
Protein-DNA interactions and gene expression (Five lectures, beginning 17 Nov.)

PROF. R. W. FARNDAL
Adhesive and immune receptor signalling (Four lectures, beginning 17 Nov.)

DR T. J. STEVENS
Bioinformatics (Four lectures, beginning 21 Nov.)

DR T. J. STEPHENS
Introduction to the problem-based bioinformatics project (One lecture, Nov. 24 at 10.30)

DR H. R. MOTT
G protein-based signalling (Two lectures, beginning 25 Nov.)

PROF. T. L. BLUNDELL
G protein-based signalling (Two lectures, beginning 27 Nov.)

DR G. C. BROWN
Mitochondria and cell death (Seven lectures, beginning 27 Nov.)

DR S. H. MCLAUGHLIN
Protein folding *in vivo* (three lectures, beginning 3 Dec.)

Data handling classes
2.30–3.15, 30 Oct., 3.15–4.00, 31 Oct. 31., 2.30–3.15, 20 Nov., 3.15–4.00, 21 Nov.

13. DR D. M. CARRINGTON AND OTHERS
Regulation of the eukaryotic cell cycle (Fifteen lectures)
Option Organiser: Dr D. M. Carrington

14. DR A. P. KELLY AND OTHERS
Molecular immunology (Fifteen lectures)
Option Organiser: Dr N. J. Gay

Data handling classes
3–3.45, 22, 23 Jan.

BIOLOGICAL AND BIOMEDICAL SCIENCES

Course Organiser: Dr Greg Davis (email gjd@mole.bio.cam.ac.uk)
Course Website: www.bio.cam.ac.uk/sbs/facbiol/bbs/index.html

All students offer a Major Subject, a Minor Subject and a dissertation.

Major Subjects: Unless marked with a *, Major Subjects take their lectures from the corresponding NST Part II subject.

Biochemistry	(see p. 177)
Genetics	(see p. 177)
Mechanisms of Disease*	(see p. 177)
Neuroscience	(see p. 179)
Pathology	(see p. 179)
Pharmacology	(see p. 179)
Physiology, Development and Neuroscience	(see p. 180)
Plant Sciences	(see p. 180)
Psychology	(see p. 180)
Zoology	(see p. 180)

Minor Subjects: Unless marked with a *, Minor Subjects take their lectures from the related NST Part II subject.

Biology of Parasitism*	(see p. 178)
Biological Anthropology*	(Any of Papers BA1, BA2 or BA3 from Part IIB Biological Anthropology—see p. 181)
Education Studies*	(Any of the following papers from Part II of the Education Studies Tripos: Psychology of Education, Sociology of Education, Philosophy of Education, History of Education—see p. 181)
Genetics	(Any of Modules M2, M4, or M5 from NST Part II Genetics—see p. 181)
History of Medicine	(Either Paper 7 or Paper 8 from NST Part II History and Philosophy of Science—see p. 181)
History and Ethics of Medicine*	(see p. 182)
Neuroscience	(Any one of Modules N5 or N6 from NST Part II Neuroscience—see p. 182)
Social and Political Sciences*	(Either Paper Soc 10 or Paper Int 5 from Part II of the Social and Political Sciences Tripos—see p. 182)

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MAJOR SUBJECTS

BIOCHEMISTRY

Course Organiser: Prof. C. J. Howe (email c.j.howe@mole.bio.cam.ac.uk)
 Course Website: <http://www.bioc.cam.ac.uk/teaching/partii/index.html>

The Biological and Biomedical Sciences (Major Subject Biochemistry) course consists of the core lectures in the Michaelmas term from NST Part II Biochemistry, plus two options in the Lent term (see p. 176)

GENETICS

Course Organisers: Dr M. Segal and Dr C. Farr (email: partII.organisers@gen.cam.ac.uk)
 Course Website: www.gen.cam.ac.uk/

The Biological and Biomedical Sciences (Major Subject Genetics) course consists of a choice of four out of the five modules offered for NST Part II Genetics (see p. 176)
 Minor Subjects consist of any one of modules M2, M4 or M5.

A detailed timetable for this course will be available in the Department of Genetics.

MECHANISMS OF DISEASE: FROM PROCESS TO PATIENT

Course organisers: Dr J. H. Xuereb (e-mail: jhx1000@cam.ac.uk) and Dr. A Ibrahim (e-mail: aeik2@cam.ac.uk)

Lectures will be held at 10.30 a.m. daily in the *Lecture Theatre, First Floor, Department of Pathology, Tennis Court Road*, unless otherwise indicated.

Seminars and Case Studies will be held in the same venue at 2.00 p.m. unless otherwise indicated.

* *The Clinical School, Addenbrooke's Hospital-Seminar Room 9, Ground Floor*

** *Department of Pathology-Seminar Room (First Floor)*

*** *Department of Pathology-Greaves Room (First Floor)*

DR J. H. XUEREBS
 Introduction to course. Tu. 7 Oct.
 PROF. A. H. WYLLIE.
 Welcome by the Head of Department. (Starts at 3.00 p.m.)
 W. 8 Oct.

MS I. KUHN
 Electronic literature searches.* group 1 (seminar)
 Tu. 7 Oct.
 Electronic literature searches.* group 2 (seminar)
 F. 10 Oct.
 Electronic literature searches.* group 2 (seminar)
 M. 13 Oct.

DR J. H. XUEREBS
 An introduction to dissertations.** (Seminar) (Starts at
 1.30pm) M. 20 Oct.

PROF. M-Q DU
 How to assess a scientific paper. (Seminar) F. 17 Oct.

DR A. IBRAHIM
 Essay-based discussion.** (Seminar) Tu. 2 Dec.

Pathogen and Host Factors in Infectious Disease

DR D. KUMARARATNE
 Mechanism of immunity to mycobacteria in humans. W.
 8 Oct.

DR JESSICA WHITE
 The spectrum of disease due to mycobacterium
 tuberculosis. Th. 9 Oct.

DR N. BROWN
 Sepsis and the host's response to infection. (Lecture:
 2.00-3.00pm) Th. 9 Oct.

DR J. SULE
 Pneumonia: racing against the escalator. F. 10 Oct.

DR B. KINGSTON
 Malaria. M. 13 Oct.

DR J. H. XUEREBS
 Phenotypic spectrum of spongiform encephalopathy.
 (Lecture: 2.00-3.00pm) Tu. 14 Oct.

PROF. A. MINSON
 The nature of prions. Tu. 14 Oct

PROF. D. DUNNE
 Schistosomiasis. Th. 16 Oct.

DR TREVOR BAGLIN
 Disseminated intravascular coagulation. (Case Study) Th.
 16 Oct.

Diseases of Immunity

DR B. COTTRELL
 Infection and immunity in inflammatory bowel disease.
 (Lecture: 10.00-11.00am) M. 20 Oct.

DR J. H. XUEREBS
 Writing up the dissertation.** (Seminar) Tu.
 3 Feb.

DR J. H. XUEREBS
 Essay-based discussion.** (Seminar) M. 9 Feb.

DR A. IBRAHIM
 Essay based discussion.** (Seminar). M. 2 Mar.

Endocrine and metabolic disease

DR A. CHAUDHRY
 The kidney as endocrine organ. Tu. 13 Jan.

PROF. J. COMPSTON
 Bone cell physiology. W. 14 Jan.

DR J. H. XUEREBS
 Paget's disease. (Case study) W. 14 Jan.

PROF. J. COMPSTON
 Pathology of metabolic bone disease. Th. 15
 Jan.

DR D. SAVAGE
 How insulin works and how it goes wrong. F. 16
 Jan.

DR J. H. XUEREBS
 Fasting hypoglycaemia. (Case study) F. 16 Jan.

DR A. CHAUDHRY
 Mechanisms of renal damage in diabetes
 mellitus. M. 19 Jan.

DR A. CHAUDHRY
 Pathophysiology of progressive renal disease.
 Tu. 20 Jan.

DR J. H. XUEREBS
 Renal colic. (Case study) Tu. 20 Jan.

DR A. COLL
 Understanding human obesity. W. 21 Jan.

DR J. BRADLEY
 End-stage renal failure. (Case study) W. 21 Jan.

PROF. K. CHATTERJEE
 Principles of nuclear hormone action. Th.
 22 Jan.

DR J. H. XUEREBS
 Clinico-anatomical correlation of pituitary
 adenoma. (Case study) Th. 22 Jan.

PROF. K. CHATTERJEE
 Nuclear receptors in human disease. F. 23 Jan.

PROF. K. CHATTERJEE
 Cushing's syndrome. (Case study) F. 23 Jan.

PROF. V. P. COLLINS
 Mitochondrial encephalomyopathies. M. 26
 Jan.

DR J. H. XUEREBS
 Essay-based discussion.** (Seminar) F. 1
 May.

Transplantation

PROF. A. BRADLEY
 Clinical background to transplantation. Tu.
 21 April.

PROF. A. BRADLEY
 Allograft rejection. W. 22 Apr.

DR C. TAYLOR
 Histocompatibility. Th. 23 Apr.

PROF. A. BRADLEY
 Immunosuppression. F. 24 Apr.

PROF. A. BRADLEY
 Xenotransplantation. M. 27 Apr.

DR E. BOLTON
 Transplantation tolerance. Tu. 28 Apr.

DR A. CHAUDHRY
 Kidney graft for complications of diabetes
 mellitus. (Case study). W. 29 Apr.

DR S. CHANDRAN
 Neural repairs and stem cells-I. Th. 30 Apr.

DR S. CHANDRAN
 Neural repairs and stem cells-II. F. 1 May.

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DR B. COTTRELL
Inflammatory bowel disease. (Case study: 11.30–1.00pm).
M. 20 Oct.

DR S. STEWART
Respiratory tract hypersensitivity. Tu. 21 Oct.

DR R. ROSS RUSSELL
Asthma and its consequences. (Case study) Tu. 21 Oct.

DR M. GURNELL
Autoimmunity in the thyroid gland. W. 22 Oct. (starts at
10.00am)

DR J. H. XUERE B
Inflammation in the CNS. Th. 23 Oct.

DR J. H. XUERE B
Aetiology and pathogenesis of demyelinating diseases. F.
24 Oct.

DR J. H. XUERE B
Clinico-anatomical correlation in multiple sclerosis. (Case
study) Tu. 28 Oct.

DR M. CLATWORTHY
Systemic lupus erythematosus I. W. 29 Oct.

DR J. H. XUERE B
Glomerulonephritis. (Case study) W. 29 Oct.

DR M. CLATWORTHY
Systemic lupus erythematosus II. Th. 30 Oct.

DR M. CLATWORTHY
Polyarteritis and other microscopical arteritides. F. 31
Oct.

DR R. TOOZE
Lymphoma: an immunological perspective I. M. 3 Nov.

DR R. TOOZE
Lymphoma: an immunological perspective II. (Lecture:
2.00–3.00pm) M. 3 Nov.

PROF. J. H. GASTON
The role of HLA antigens in the pathogenesis of arthritis.
Tu. 4 Nov.

PROF. J. H. GASTON
T Lymphocytes in joint inflammation. (Lecture:
2.00–3.00pm) Tu. 4 Nov.

DR J. H. XUERE B
Polyarthritides. (Case study: 10.30–12.00) Th. 6 Nov.

DR J. H. XUERE B
Acute monoarthritis. (Case study) Th. 6 Nov.

PROF. J. H. GASTON
Cytokines in arthritis: potential therapeutic targets. F. 7
Nov.

PROF. J. H. GASTON
Infectious agents and arthritis: Lyme disease and Reactive
arthritis. (Lecture: 2.00–3.00pm). F. 7 Nov.

DR D. KUMARARATNE
Immunodeficiency-molecular mechanisms I. M. 10 Nov.

DR M. FARRINGTON AND DR T. WREGHITT
Infection in the immunocompromised host. (Case study)
M. 10 Nov.

DR D. KUMARARATNE
Immunodeficiency: molecular mechanisms II. Tu. 11 Nov.

Diseases of red blood cells and platelets

DR W. OUWEHAND
Immune-mediated disorders of erythrocytes and platelets
I. Th. 13 Nov.

DR W. OUWEHAND
Immune-mediated disorders of erythrocytes and platelets
II. (Lecture: 2.00–3.00pm) Th. 13 Nov.

DR T. FOUKANALI
Inherited haemolytic anaemias. F. 14 Nov.

DR J. H. XUERE B
Megaloblastic anaemia. (Case study) F. 14 Nov.

Diseases of white blood cells

DR A. WARREN
Leukaemia I: transcriptional regulation of haemopoiesis.
Tu. 18 Nov.

DR J. CRAIG
Pathogenesis and management of leukaemia. (Case study:
starts 2.30pm) Tu. 18 Nov.

DR A. WARREN
Leukaemia II: molecular pathology. W. 19 Nov.

DR G. FOLLOWS
Multiple myeloma. F. 21 Nov.

DR J. CRAIG
Myeloma and renal failure. (Case study) F. 21 Nov.

DR D. O'DONOVAN
Peroxisomal disorders. Tu. 27 Jan.

DR J. H. XUERE B
Carcinoid syndrome. (Case study) Tu. 27 Jan.

PROF. T. COX
The Lysosome—a gateway to treatment. W. 28
Jan.

Gestational, Paediatric and Inherited Diseases

DR S. CHARNOCK-JONES
Placental vascular morphogenesis. M. 2 Feb.

DR S. CHARNOCK-JONES
Pathogenesis of pre-eclampsia. Tu. 3 Feb.

DR S. CHARNOCK JONES
Gestational trophoblastic tumours. W. 4 Feb.

DR K. ONG
Fetal and early infant development. Th. 5 Feb.

DR A. WHITEHEAD
Pathophysiology of disease in the premature
baby. F. 6 Feb.

DR C. ACERINI
Growth disorders of childhood. M. 9 Feb.

PROF. I. HUGHES
Disorders of sex development. Tu. 10 Feb.

DR E. REID
Hereditary spastic paraplegia. W. 11 Feb.

DR R. ILES
Molecular and cell biology of cystic fibrosis.
Th. 12 Feb.

DR D. O'DONOVAN
Biology and pathology of muscular dystrophy.
F. 13 Feb.

Cardiorespiratory disease

DR M. GRIFFITHS
Chronic airways narrowing and alveolar wall
destruction. M. 23 Feb.

DR J. H. XUERE B
Restrictive lung disease. (Case study) M. 23 Jan.

DR J. RUDD
Atherosclerosis. (Lecture: 2.00–3.00pm) Tu. 24
Feb.

PROF. M. BENNETT
Pathobiology of intervention in coronary artery
Disease. W. 25 Feb.

PROF. M. BENNETT
Coronary artery disease. (Case study: starts at
11.45am) W. 25 Feb.

DR M. GODDARD
Ischaemic cardiomyopathy. (Lecture:
11.00–12.00pm) Th. 26 Feb.

DR J. H. XUERE B
Infectious endocarditis—Part I. (Case study) Th.
26 Feb.

DR M. GODDARD
Pathophysiology of pulmonary
microvasculature. F. 27 Feb.

DR J. H. XUERE B
Infectious endocarditis—Part II. (Case study) F.
27 Feb.

Disorders of the skin

DR J. STERLING
Normal and abnormal skin structure. M. 2
Mar.

DR J. STERLING
Skin as a renewable organ. Tu. 3 Mar.

DR J. STERLING
Skin as organ of immunity. (Lecture:
2.00–3.00pm) Tu. 3 Mar.

DR N. BURROWS
Ehlers-Danlos syndrome.
(Case study: starts at 10.30am) W. 4 Mar.

DR J. STERLING
Disorders of the skin immune system. Th. 5
Mar.

DR J. STERLING
Bullous skin disease. (Case study) Th. 5 Mar.

Neurodegeneration

DR J. H. XUERE B
Alzheimer's disease. F. 6 Mar.

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Common Cancers

DR A. IBRAHIM
Epigenetics in carcinogenesis. M. 24 Nov.

DR C. BACON
Tumor immunology. (Lecture: 2.00–3.00pm) M. 24 Nov.

DR E. CAMERON
Helicobacter infection, gastric ulceration and malignancy.
Tu. 25 Nov.

DR E. CAMERON
Reflux, Barrett's oesophagus and oesophageal carcinoma.
(Case study) Tu. 25 Nov.

DR D. RASSL
Lung cancer. W. 26 Nov.

DR R. RINTOUL
Lambert-Eaton syndrome. (Case study) W. 26 Nov.

DR M. ARENDS
Familial predisposition to cancer: colorectal cancer. Th.
27 Nov.

DR J. H. XUEREB
Pancoast's syndrome. (Case study) Th. 27 Nov.

DR J. WOODWARD
Coeliac disease: malabsorption and malignancy. F. 28
Nov.

DR J. WOODWARD
Steatorrhoea. (Case study) F. 28 Nov.

DR H. SIMPSON
Thyroid cancer. M. 1 Dec.

DR M. GURNELL
Approach to the problem of an enlarged thyroid gland.
(Case study) M. 1 Dec.

DR M. ARENDS
Infection and cancer: molecular biology of cervical
cancer. Tu. 2 Dec.

PROF. V. P. COLLINS
Cerebral gliomas: the pathway and molecular biology. W.
3 Dec.

DR J. H. XUEREB
Cerebral oedema and intracranial pressure. (Case study)
W. 3 Dec.

DR N. COLEMAN
Biology of some childhood neoplasms. (Lecture:
2.00–3.00pm) Th. 4 Dec.

PROF. C. CALDAS
Molecular biology of breast cancer. F. 5 Dec.

DR A. CLUROE, DR S. BARTER, DR J. BENSON AND DR M.
MOODY
A lump in the breast: a multidisciplinary approach to

DR J. H. XUEREB
Non-Alzheimer tauopathies. (Lecture:
2.00–3.00) F. 6 Mar.

DR R. DAVIES
Tau-related dementia syndromes. (Case study).
M. 9 Mar.

DR J. H. XUEREB
Motor neuron disease & Parkinson's disease.
M. 9 Mar.

DR R. BARKER
Movement disorders. (Case study). Tu. 10 Mar.

Hepatobiliary disease

DR S. DAVIES
Cirrhosis of the liver. W. 11 Mar.

DR S. DAVIES AND MR R. PRASEEDOM
Jaundice. (Case study). W. 11 Mar.

DR S. DAVIES
Portal hypertension and liver failure. Th. 12 Mar.

DR S. DAVIES AND DR M. ALLISON
Viral hepatitis. (Case study). Th. 12 Mar.

NEUROSCIENCECourse organiser: Dr John Rogers (email: jhr11@cam.ac.uk)Course Website: www.pdn.cam.ac.uk/teaching/General enquiries: Paul Frost and Vicky Johnson (Room E4, Physiology), or: pdn-part2-admin@lists.cam.ac.uk

The Biological and Biomedical Sciences (Major Subject Neuroscience) course consists of any four of the eight modules offered for Part II Neuroscience. (see p. 189).

Detailed timetables will be posted in the Department

PATHOLOGYCourse Organiser: Dr A. Kelly (email: apk23@cam.ac.uk)Course Website: www.path.cam.ac.uk/ugrad/third-year.html

All lectures will be given in the *Department of Pathology* unless otherwise stated.

The Biological and Biomedical Sciences (Major Subject Pathology) course consists of a choice of two out of the five modules of NST Part II Pathology (see p. 191).

(however, a combination of modules A and E is prohibited).

PHARMACOLOGYCourse Organiser: Prof. Colin Taylor (email: cwt1000@cam.ac.uk)Course Website: www.phar.cam.ac.uk/teaching/tea_part2.html

The Biological and Biomedical Sciences (Major Subject Pharmacology) course consists of the same lectures as for NST Single Subject Pharmacology (see p. 192).

NATURAL SCIENCES TRIPOS, PART II (continued)**PHYSIOLOGY, DEVELOPMENT AND NEUROSCIENCE**

Course organiser: Dr John Rogers (email: jhr11@cam.ac.uk)
 General enquiries: Paul Frost & Vicky Johnson (Room E4, Physiology), or: pdn-part2-admin@lists.cam.ac.uk
 Course Website: www.pdn.cam.ac.uk/teaching/

The Biological and Biomedical Sciences (Major Subject Physiology, Development and Neuroscience) course consists of a series of workshops, lectures and seminars around a framework of modules. The combinations offered are: Development and Reproductive Biology: P3, P4, P6, P7. Integrative Physiology: P1, P3, P7, P8. (see p. 195, 196)

Detailed timetables will be posted in the Department

PLANT SCIENCES

Course Organiser: Dr John Carr (email: jpc1005@cam.ac.uk)
 Course Website: www.plantsci.cam.ac.uk/teaching/psii/index.html

All lectures take place in *the Tom ap Rees Lecture Theatre, Department of Plant Sciences* unless otherwise stated.

The Biological and Biomedical Sciences (Major Subject Plant Sciences) course consists of lectures from modules from NST Part II Plant Sciences. Students can offer either Cellular Plant Sciences (modules M1, M4, L1 and L2), or Ecological Plant Sciences (modules M3 and either M1 or Zoology M3; and L2, Zoology, L2). (see pp. 199)

PSYCHOLOGY

Course Organiser: Prof. Tony Dickinson (email: ad15@cam.ac.uk)
 Course Website: www.psychol.cam.ac.uk/pages/undgrad.html#Courseb

Lectures will be held in the *Lecture Theatre, Department of Experimental Psychology* unless otherwise stated.

The Biological and Biomedical Sciences (Major Subject Psychology) course consists of the same lectures as for NST Part II Psychology (see p. 200)

ZOOLOGY

Course Organiser: Dr N. Mundy: (email: nim21@cam.ac.uk)
 Course Website : www.zoo.cam.ac.uk/degree/2zoology/index.html

Lectures will be given in the *Department of Zoology* unless otherwise stated.

The Biological and Biomedical Sciences (Major Subject Zoology) course offers six Major Subjects, made up of modules offered in NST Part II Single Subject Zoology (see p. 201) and some modules offered in NST Part II Plants Sciences (see p. 199) and NST Part II Genetics (see p. 184) and NST Part II PDN (see p. 193). The following combinations are available:

Cells and Development: Choice of two modules from M6, M7 or M8 and a choice of two modules from L5, L6 or L7

Behaviour: Modules M4, M5, L2 and L3.

Vertebrate Biology: Two modules chosen from M1, M3 or M5, and L1 and L3.

Ecology and Conservation: Two modules from M2, M3 or M5 and L2 and L3.

Ecology and Genetics: Two modules chosen from M2, M3 or M5, and two chosen from L2, L3 or the Genetics module M5 (Evolutionary Genetics).

Ecology and Plant Sciences: Two modules from M2 and M3, or Plant Sciences M3 (Dynamics, History and Future of Vegetation) and L2, L3.

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MINOR SUBJECTS**BIOLOGY OF PARASITISM**

Course Organiser: Dr S. Lloyd (email: ssl1000@hermes.cam.ac.uk)
 Course Website: <http://www.bio.cam.ac.uk/sbs/facbiol/bbs/bop.html>

All lectures take place in *the Department of Pathology* on M. W. Th. 4 unless otherwise stated.

Lecture 1. Overview of developments. Basic morphology and life cycles
 Lectures 2–6. Adaptations for transmission. Structural and behavioural modifications including host recognition by free-living stages (trematodes, nematodes, arthropods)
 Lectures 7–9. Recognition of and development of *Plasmodium*, *Leishmania* and *Trypanosoma* in intermediate hosts
 Lecture 10, 11. Innate invertebrate responses to parasites
 Lectures 12–16. Seasonal epidemiology of fasciolosis, gastro-intestinal nematodes and ticks and the associated diseases (liver pathology, anaemia, disease transmission, including endemic stability of infections)
 Lectures 17–24. Zoonoses (*Taenia*, *Echinococcus*, *Trichinella*, *Toxocara*, *Giardia*, *Cryptosporidium*,

Lectures 24–26. Zoonoses (*Taenia*, *Echinococcus*, *Trichinella*, *Toxocara*, *Giardia*, *Cryptosporidium*, *Fasciola*, fish-borne trematodes and arthropods)
 Lectures 27–31. Chemotherapy and resistance to acaricides, insecticides and anthelmintics
 Lecture 32–35. Alternate methods of control, including bioinsecticides and biological control

BIOLOGICAL ANTHROPOLOGY

Course Organiser: Professor Nick Mascie-Taylor (email: nmt1@cam.ac.uk)
 Course Website: <http://www.bio.cam.ac.uk/sbs/facbiol/bbs/BioAnthWeblink.pdf>

The Biological and Biomedical Sciences (Minor Subject Biological Anthropology) courses consist of any one of the following three papers, which form part of Part IIB Biological Anthropology: Paper BA1: The Human Animal, Paper BA2: The Human Journey, or Paper BA3: The Human Lifespan (see p. 216)

EDUCATION STUDIES

Course Organiser: Dr J. Whitehead (email: jmw3@cam.ac.uk)
 Further information can be obtained at <http://www.educ.cam.ac.uk/ugrad/edstud.html>

The Biological and Biomedical Sciences (Minor Subject Education) courses consist of any one of the following papers from Part II of the Education Studies Tripos:
 Psychology of Education, Sociology of Education, Philosophy of Education, History of Education (see p. 238)

GENETICS

Course Organisers: Dr M. Segal and Dr C. Farr (email: partII.organisers@gen.cam.ac.uk)
 Course Website: www.gen.cam.ac.uk/

The Biological and Biomedical Sciences (Minor Subject Genetics) courses consist of any one of modules M2, M4 or M5 offered for NST Part II Genetics (see p. 184)

A detailed timetable for this course will be available in the Department of Genetics.

HISTORY OF MEDICINE

Course Organiser: Dr N. Hopwood (email: ndh12@cam.ac.uk)

Students can choose one of the following two papers, which form part of NST Part II History and Philosophy of Science
 Paper 7: Medicine from Antiquity to the Enlightenment or Paper 8: Modern Medicine and Biomedical Sciences (see p. 187)

Students taking the BBS one-paper subjects in History of Medicine should come to the Part II induction meeting on Wednesday 8 October at 11am in Seminar Room 2, Department of History and Philosophy of Science, Free School Lane.

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

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HISTORY AND ETHICS OF MEDICINE

Course Organiser: Dr K. Brosnan (e-mail: kb407@cam.ac.uk).
 Further information can be obtained at www.hps.cam.ac.uk/students/

Lectures are held in *Mill Lane Lecture Room 2*.

DR K. BROSANAN, DR S. JOHN AND OTHERS

Medical Ethics. Tu. 4 (weeks 1–8)

PROF. J. FORRESTER, DR V. HEGGIE AND DR L. KASSELL

History of Medicine. M. 4 (weeks 1–8)

The same continued. Tu. 4 (weeks 1–4)

The same continued. M. 4 (weeks 1–4)

NEUROSCIENCE

Course organiser: Dr John Rogers (email: jhr11@cam.ac.uk)
 General enquiries: Paul Frost and Vicky Johnson (Room E4, Physiology), or: pdn-part2-admin@lists.cam.ac.uk
 Course Website: www.pdn.cam.ac.uk/teaching/

The Biological and Biomedical Sciences (Minor Subject Neuroscience) courses consist of any one of modules N5, N6. (see p. 189)
 Detailed timetables will be posted in the Department.

SOCIAL AND POLITICAL SCIENCES

Course Website: <http://www.sps.cam.ac.uk/current/undergraduate/index.html>

The Biological and Biomedical Sciences (Minor Subject Social and Political Sciences) courses consist of either of the following two papers, which form part of Social and Political Sciences Tripos Part II.

Course Organiser: Dr D. Weinberg (email: dtw23@cam.ac.uk)
 Paper Soc 10: Medicine, Body, and Society (see p. 124)

Course Organiser: Dr Jude Browne (email: jmb63@cam.ac.uk)
 Paper Int 5: The Family (see p. 124)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

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CHEMISTRY (OPTION A AND OPTION B)
PHYSICAL SCIENCES: HALF SUBJECT CHEMISTRYCourse Organiser: Dr J. H. Keeler (email: jhk10@cam.ac.uk)
Course Website: www-teach.ch.cam.ac.ukAll lectures will be given in the *Department of Chemistry, Lensfield Road*.Students must register for the course in the *Department of Chemistry, Lensfield Road*, between 0900 and 1300 or 1400 and 1600 on Tu. 7 Oct.

A booklet containing details of the times of the lecture courses will be given out on registration. Others interested in the lecture courses can obtain a copy of this booklet on application to the Course Organiser. This information is also available from the website, www-teach.ch.cam.ac.uk

All students must attend an introductory talk concerning the practical course at 1200 on W. 8 Oct. in the *Pfizer Lecture Theatre*.All lectures will be given in the *Department of Chemistry, Lensfield Road* unless otherwise stated.EXPERIMENTAL AND THEORETICAL PHYSICS
PHYSICAL SCIENCES: HALF SUBJECT EXPERIMENTAL AND THEORETICAL PHYSICSDepartmental Contact: Dr R. Padman: (email: II-physics@phy.cam.ac.uk)
Course Website: www.phy.cam.ac.uk/teaching/Students offering **Option A** must take all 4 **Core courses** in the Michaelmas Term, 2 of the **Options courses** in the Lent and Easter Terms, and **Computational Physics**. They must in addition take either **Physics in Action** or **Physics Education** or both, and a suitable selection from **Theoretical Options** and **Other Further Work**.Students offering **Option B** must take all 4 **Core courses** in the Michaelmas Term, 3 of the **Options courses** in the Lent and Easter Terms, and **Computational Physics**. They must in addition take 3 courses from **Physics Education**, **Theoretical Options** and **Other Further Work**.The material of the **Theoretical Options** is examined at the start of the term following that in which each block, TP1 and TP2, is given.All students are recommended to attend the **Non-examinable courses** Concepts in Physics and Current Research Work in the Cavendish Laboratory.Students taking Half Subject Experimental and Theoretical Physics as part of Part II Physical Sciences will take any 2 of the **Core courses** in the Michaelmas term and any one of the **Options courses** in the Lent and Easter terms. Candidates also take 2 units of further work selected from **Theoretical Options**, **Physics in Action**, **Physics Education** and **Other Further Work**. A prior knowledge of Physics equivalent to the material covered in Part IB Physics A and Part IB Physics B will be assumed.The course will begin with a meeting on the first Wednesday of Full Term (8 Oct.) at 9.30 a.m. in the *Pippard Lecture Theatre*.Lectures are given at the *Cavendish Laboratory (West Cambridge)*, in the *Pippard Lecture Theatre* unless otherwise stated.**Core Courses**PROF. E. M. TERENTJEV
Thermal and Statistical Physics. (Eighteen lectures) W. 11
(First two weeks only) Tu. F. 9
PROF. D. A. RITCHIE
Advanced Quantum Physics. M. W. Th. 9
DR H. P. HUGHES
Optics and Electrodynamics. M. W. 10
DR M. HAEHNELT
Relativity Tu. Th. F. 10 *Sackler Lecture Theatre, IoA***Computational Physics****Non-examinable courses**DR C. D. MACKAY
Topics in Astrophysics. Tu. Th. F. 11 *Sackler Lecture Theatre, IoA***Theoretical Options**PROF. B. R. WEBBER AND DR C. H. W. BARNES
Theoretical Physics TP1. M. W. 12-1 (Twelve lectures beginning 13 Oct.); Tu. 2-4 (Four classes, 14 Oct., 28 Oct., 11 Nov., 25 Nov.)**Physics in Action****Options Courses**DR M. GROSCHKE
Quantum Condensed Matter Physics. Tu. Th. 10
PROF. C. J. CLARKE
Astrophysical Fluids. M. W. F. 9 *Sackler Lecture Theatre, IoA*
PROF. D. R. WARD AND DR C. G. LESTER
Particle and Nuclear Physics. M. W. 11
DR P. CICUTA
Soft Condensed Matter and Biophysics. T. Th. 9DR J. S. RICHER AND OTHERS
Computational Physics. M. W. 12 (First eight lectures)PROF. P. B. LITTLEWOOD
Concepts in Physics. M. W. 12 (Eight lectures beginning 16 Feb.)THE STAFF OF THE CAVENDISH LABORATORY
Current Research Work in the Cavendish Laboratory (not examinable). See Part III Experimental and Theoretical Physics (p. 000)PROF. M. C. PAYNE AND PROF. W. J. STIRLING
Theoretical Physics TP2. Tu. Th. 12-1 (Twelve lectures, beginning 22 Jan.); Tu. 2-4 (Four classes, 27 Jan., 10 Feb., 24 Feb., 10 Mar.)DR J. S. RICHER AND PROF. A. M. DONALD
Physics in Action. F. 11.30 *Mott Seminar Room*
Group Project Work. F. 2-4 *Ryle Seminar Room***Options Courses (continued)**DR M. GROSCHKE
The same continued. Tu. W. F. 10 (First six lectures)
PROF. D. R. WARD AND DR C. G. LESTER
The same continued. M. W. F. 9 (First six lectures)
DR P. CICUTA
The same continued. M. 10. Tu. Th. 9 (First six lectures)

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NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

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Physics EducationDR L. JARDINE-WRIGHT AND OTHERS
Physics Education.**Other Further Work**DR D. F. BUSCHER AND OTHERS
Experiment E1.PROF. R. J. NEEDS AND OTHERS
Research Review.

DR D. F. BUSCHER

Long Vacation Project.

Laboratory Hours. The experimental laboratories are open
M.–F. 11–5.45DR L. JARDINE-WRIGHT AND OTHERS
The same continued.DR D. F. BUSCHER AND OTHERS
Experiment E2.PROF. R. J. NEEDS AND OTHERS
The same continued.**GENETICS****BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR AND MINOR SUBJECT GENETICS**Course Organisers: Dr M. Segal and Dr C. Farr (email: partII.organisers@gen.cam.ac.uk)Course Website: www.gen.cam.ac.uk/All lectures take place in the *Part II Lecture Room (G6)*, Department of Genetics, on M. Tu. W. Th. F., unless otherwise stated.

A detailed timetable for this course will be available in the Department of Genetics.

M1: Chromosomes, the Cell Cycle and CancerPROF. M. ASHBURNER, PROF. D. GLOVER, DR C. FARR, DR J.
RAFF AND DR M. SEGAL
(Twenty-four lectures, beginning 9 Oct.)**M2: Plant and Microbial Genetics**DR D. SUMMERS, DR P. OLIVER, DR J. ARCHER AND DR I.
FURNER
(Twenty-four lectures, beginning 9 Oct.)**M3: Developmental Genetics**PROF. A. MARTINEZ-ARIAS, PROF. D. ST JOHNSTON, DR M.
SEGAL AND DR J. AHRINGER
(Twelve lectures, beginning 17 Nov.)**M4: Human Genetics, Genomics and Systems Biology**PROF. M. ASHBURNER, DR D. MACDONALD, DR C. FARR, DR S.
RUSSELL AND DR G. MICKLEM
(Twelve lectures, beginning 14 Nov.)**Long Reading Weekend.** 7 Nov. – 10 Nov.**M5: Evolutionary Genetics**PROF. M. MAJERUS, DR F. JIGGINS, DR D
MACDONALD AND DR R. WARE
(Twenty-four lectures, beginning 14 Jan.)**M3: Developmental Genetics**The same continued. (Twelve lectures,
beginning 14 Jan.)**M4: Human Genetics, Genomics and Systems
Biology**The same continued. (Twelve lectures,
beginning 2 Feb.)**Reading Week.** 9 Feb. – 13 Feb.**Revision supervisions** (Five group sessions,
dates to be announced)**GEOLOGICAL SCIENCES AND MINERAL SCIENCES****PHYSICAL SCIENCES: HALF SUBJECT GEOLOGICAL SCIENCES AND MINERAL SCIENCES**Coursework website: (<https://camtools.caret.cam.ac.uk/>)

Students offering Option A (leading to the three year degree – Part IIA) must take two core courses in the Michaelmas Term and two options in the Lent and Easter Terms. They must in addition attend the Skills course S1 in the Michaelmas Term.

Students offering Option B (leading to Part IIB and to the four year degree – Part III) must take two core courses in the Michaelmas Term and three options in the Lent and Easter Terms. They must in addition attend the Skills course S1 in the Michaelmas Term.

Core C1 GeophysicsPROF. J. A. JACKSON, DR F. TILMANN AND PROF. D. P.
MCKENZIE
Convenor: Prof. J. A. Jackson
Lectures. Tu. Th. 9 *Harker Room*
Practicals. Tu. Th. 10–12 *Petrology Laboratory***Core C2 Petrology and Geochemistry**DR T. J. B. HOLLAND, DR A. GALY AND DR S. GIBSON
Convenor: Dr T. J. B. Holland
Lectures. Tu. F. 2 *Harker Room*
Practicals. Tu. F. 3–5 *Petrology Laboratory***Core C3 Sedimentology and Palaeontology**DR N. HOVIUS, DR K. MCNAMARA AND DR E. HARPER
Convenor: Dr N. Hovius
Lectures. W. F. 9 *Harker Room*
Practicals. W. F. 10–12 *Palaeontology/Petrology
Laboratories***Option 6 Continental Tectonics and Mountains**PROF. J. A. JACKSON AND PROF. D. MACKENZIE
Convenor: Prof. J. A. Jackson
Lectures. Tu. Th. 2 *Tilley Room*
Practicals. Tu. Th. 3–4.30 *Petrology Laboratory*

The same continued. (Eight revision sessions)

Option 7 Oceanic and Continental MarginsPROF. R. S. WHITE, DR F. TILMANN, DR J.
MACLENNAN AND DR J. HAINES
Convenor: Prof. R. S. White
Lectures. W. F. 9 *Harker Room*
Practicals. W. F. 10–11.30 *Petrology Laboratory*

The same continued. (Eight revision sessions)

Option 8 Magmatic ProcessesDR S. GIBSON, DR M. HOLNESS AND PROF. A. WOODS
Convenor: Dr S. Gibson
Lectures. M. W. 2 *Harker Room*
Practicals. M. W. 3–4.30 *Petrology Laboratory*

The same continued. (Eight revision sessions)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

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Core C4 Mineralogy

DR I. FARNAN, DR R. J. HARRISON AND A. N. OTHER
 Convenor: Dr. R. J. Harrison
 Lectures. M. 9 W. 2 *Harker 2*
 Practicals. M. 10–12, W. 3–5 *IB Mineralogy Laboratory*

Core C5 Mineral Physics

PROF. E. ARTACHO, PROF. M. T. DOVE AND MR P. WELCHE
 Convenor: Prof. M. T. Dove
 Lectures. W. 9, F. 2 *Harker 2*
 Practicals. W. 10–12, F. 3–5 *IB Minerals Laboratory*

Skills Course S1

DR N. H. WOODCOCK
 Convenor: Dr N. H. Woodcock
 M. Tu. W. Th. F. 12–1 and M. Th. 2–5.
Harker Room and Computer Room (first two weeks)

Field Course to Greece

5–13 Dec 2008 or 9–17 Dec 2008
 PROF. J. A. JACKSON AND DR N. HOVIUS

Option M6 Diffraction, Electron Microscopy and Microanalysis

DR C. PETRONE, DR J. COLE, DR C. J. HOWARD, AND A. N. OTHER
 Convenor: Prof. M.T. Dove
 Lectures. Th. 2, F. 9 *Harker 2*
 Practicals. Th. 3–4.30, F. 10–11.30 *IB Minerals Laboratory*

Option 9 Quaternary Oceans and Climate Change

PROF. H. ELDERFIELD, PROF. D. HODELL, DR A. PIOTROWSKI AND DR L. SKINNER
 Convenor: Prof. H. Elderfield
 Lectures. Tu. Th. 9 *Harker Room*
 Practicals. Tu. Th. 10–11.30 *Petrology Laboratory*

Option 10 Ancient Ecosystems

DR N. J. BUTTERFIELD AND PROF. S. CONWAY
 MORRIS, DR A. TURCHYN AND A. N. OTHER
 Convenor: Dr N. J. Butterfield
 Lectures. M. 9, F. 2 *Harker Room*
 Practicals. M. 10–11 F. 3–4.30 *Palaeontology Laboratory*

Option M4 Mechanical Behaviour of Minerals

PROF. S. A. T. REDFERN, DR M. DARAKTCHIEV AND DR A. WALKER
 Convenor: Prof. S. A. T. Redfern
 Lectures. M. 9, F. 2 *Harker 2*
 Practicals. M. 10–11, F. 3–4.30 *IB Minerals Laboratory*

Option M5 Computational Methods in Crystal Physics

PROF. E. ARTACHO, DR K. TRACHENKO, AND A. N. OTHER
 Convenor: Prof. E. Artacho
 Lectures: W. F. 9 *Harker 2*
 Practicals. W. F. 10–11.30 *IB Harker 2*

The same continued. (Eight revision sessions)

The same continued. (Eight revision sessions)

The same continued. (Eight revision sessions)

The same continued. (Eight revision sessions)

HISTORY AND PHILOSOPHY OF SCIENCE

Course Organiser: Dr L. Kassell (email: ltk21@cam.ac.uk)

A detailed timetable and course handbook are available from the Department and at www.hps.cam.ac.uk/timetable

Dr Kassell would like to see all Part II students taking HPS on Wednesday 8 Oct. at 11 a.m. in Seminar Room 2, Department of History and Philosophy of Science. All classes and seminars will be held in the History and Philosophy of Science Seminar Rooms, Free School Lane unless otherwise stated.

Primary Source Seminars

It is essential that students attend four seminars, three from the papers they are taking and one other.

- Paper 1: DR L. TAUB, DR L. TOTELIN AND DR T. REES
 [Pseudo-Aristotle] *Problems*, in *The Complete Works of Aristotle*, ed. J. Barnes (Princeton, 1984), vol. 2: 1319–1527. F. 4 (weeks 1–4)
- Paper 2: MR N. REEVES, DR P. FARA AND MR R. GASKELL
 Sir James Pringle, *Six discourses delivered on the occasion of six annual assignments of Sir Godfrey Copley's Medal* (1783). W. 4 (weeks 1–4)
- Paper 3: PROF. J. SECORD AND DR P. WHITE
 Charles Darwin's correspondence (12–15 selected letters) on the Darwin Correspondence Project website: www.darwinproject.ac.uk. Tu. 12 (weeks 1–4)
- Paper 4: DR T. LEWENS AND DR P. DICKEN
 Bas van Fraassen, *The Scientific Image* (1980), chapter 2. Th. 10 (weeks 1–4)
- Paper 5: DR A. BROADBENT
 Bloor, D. (1982) 'Durkheim and Mauss Revisited: Classification and the Sociology of Knowledge', *Studies in History and Philosophy of Science* 13(4): 267–297. Tu. 4 (weeks 1–4)
- Paper 6: PROF. J. FORRESTER
 Sigmund Freud, Four Short Papers: 'Negation' (SE 19: 233–40); 'A note upon the "Mystic Writing-Pad"' (SE 19: 225–232); 'Fetishism' (SE 21: 147–158); 'Two lies told by children' (SE 12: 303–310). W. 2 (weeks 1–4)
- Paper 7: DR L. KASELL
 Helkiah Crooke, *Microcosmographia* (1615), Book 4. F. 12 (weeks 1–4)
- Paper 8: DR V. HEGGIE
The Report of the Inter-Departmental Committee on Physical Deterioration, Vol. 1 (HMSO, 1904). Tu. 2 (weeks 1–4)
- Paper 9: PROF. N. JARDINE AND MS H. MACDONALD
 C. P. Snow, *The Two Cultures and the Scientific Revolution* (1959) and F. R. Leavis, *Two Cultures? The Significance of C.P. Snow* (1962). M. 10 (weeks 1–4)

Dissertation Seminars

Tu. W. 4 (weeks 3–6)

It is essential that students attend at least two of these seminars.

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NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

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EASTER 2009

(Paper 1) Classical Traditions in the Sciences

Course Organisers: Dr E. Robson (email: er264@cam.ac.uk) and Dr L. Taub (email: lct1001@cam.ac.uk)

DR L. TAUB, DR L. TOTELIN AND DR T. REES

Primary Source. F. 4 (weeks 1–4)

DR E. ROBSON, PROF. N. JARDINE AND PROF. R. MCKITTERICK

Introduction. F. 11 (weeks 1–4) (*Essential. No supervisions.*)

DR L. TAUB AND DR C. EAGLETON

Instruments, Books and Collections. F. 11 (weeks 5–8)

DR L. TAUB

Ancient Mediterranean Science. Tu. 11 (weeks 1–8)

(Paper 2) Natural Philosophies: Renaissance to Enlightenment

Course Organiser: Mr N. Reeves (email: nr218@cam.ac.uk)

MR N. REEVES, DR P. FARA AND MR R. GASKELL

Primary Source. W. 4 (weeks 1–4)

DR L. KASSELL

Occult Philosophy. W. 11 (weeks 1–8)

MR N. REEVES, DR P. FARA, MR R. GASKELL AND DR S. WEEKS

Natural Philosophy and Exact Sciences. Tu. 3 (weeks 1–8)

(Paper 3) Science, Industry and Empire

Course Organiser: Prof. J. Secord (email: jas1010@cam.ac.uk)

PROF. J. SECORD AND DR P. WHITE

Primary Source. Tu. 12 (weeks 1–4)

PROF. J. SECORD

Science, Industry and Empire: An Introduction. F. 2 (weeks 1–4)

DR R. BARNETT

Evolution, Time and Progress. W. 10 (weeks 1–8)

DR N. HOPWOOD, DR V. HEGGIE, MR N. REEVES AND PROF. J. SECORD

Laboratories, Disciplines and Exhibitions. F. 2 (weeks 5–8); Tu. 12 (weeks 5–8)

(Paper 4) Metaphysics, Epistemology and the Sciences

Course Organisers: Dr T. Lewens (e-mail: tml1000@cam.ac.uk) and Dr S. Bangu

DR T. LEWENS AND DR P. DICKEN

Primary Source. Th. 10 (weeks 1–4)

DR A. BROADBENT

Causation, Explanation and Law. W. 12 (weeks 1–8)

DR T. LEWENS AND DR S. BANGU

Induction and the Sciences. M. 11 (weeks 1–8)

DR S. BANGU

Philosophy of Physics. Th. 10 (weeks 5–8)

(Paper 5) Science and Technology Studies

Course Organiser: Dr A. Broadbent (email: abb24@cam.ac.uk)

DR A. BROADBENT

Primary Source. Tu. 4 (weeks 1–4)

DR N. HOPWOOD AND DR R. BARNETT

Reproductive Technologies. F. 3 (weeks 1–8)

DR A. BOSTANCI

Sociology of Scientific Knowledge. M. 3 (weeks 1–8)

DR E. ROBSON

Patronage and Science in the Middle East. W. 11 (weeks 1–8)

PROF. SIR GEOFFREY LLOYD

Greek and Chinese Science. M. 3 (weeks 1–4)

DR N. EL-BIZRI AND DR S. MALIK

Arabic Science. M. 3 (weeks 5–8)

DR A. CUNNINGHAM

Sects and Nature. Th. 3 (weeks 1–4)

PROF. N. JARDINE, DR E. SPARY AND DR P. WHITE

Natural Histories. M. 11 (weeks 1–8)

DR C. EAGLETON

Instruments, Models and Tools. F. 4 (weeks 1–4)

MR N. REEVES, DR P. FARA, MR R. GASKELL AND DR S. WEEKS

The same continued. F. 10 (weeks 1–4)

DR C. CULLEN

Science and Cross-Cultural Encounter in

China: From Matteo Ricci to the

Macartney Embassy. F. 10 (weeks 5–8)

PROF. J. SECORD

Science and Empire. Tu. 11 (weeks 1–8)

DR P. WHITE

The Experimental Novel. M. 10 (weeks 1–4)

DR E. ROBSON

Empire, Science and Biblical Archaeology. M.

10 (weeks 5–8)

DR S. QURESHI

Science and Race. W. 10 (weeks 5–8)

DR T. LEWENS, DR K. BROSANAN AND DR U.

STEGMANN

Philosophy of Biology. Tu. 10 (weeks 1–8)

PROF. J. FORRESTER

Thinking in Cases. Th. 11 (weeks 1–4)

DR S. BANGU

Philosophy of Mathematics. Th. 11 (weeks 5–8)

MS C. MCLEISH

The Language of Scientific Theories. M. 2

(weeks 1–4)

DR E. ROBSON

The Material Culture of Mathematics. Th. 12

(weeks 1–8)

DR A. NATHOO AND PROF. J. SECORD

Science Communication. W. 12 (weeks 1–8)

MS A. BREITENBACH AND DR S. JOHN

Environmental Ethics and Science Policy. F. 3

(weeks 1–4)

DR T. LEWENS AND OTHERS

Bioethics. F. 3 (weeks 5–8)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

(Paper 6) History and Philosophy of Mind

Course Organiser: Prof. J. Forrester (email: jpf11@cam.ac.uk)

PROF. J. FORRESTER

Primary Source. W. 2 (weeks 1–4)

PROF. J. FORRESTER

Freud, Psychoanalysis and the Twentieth Century. Th. 11 (weeks 1–8); W. 2 (weeks 5–8)

DR D. THOM

Eugenics and Psychology in the UK, 1869–1971. M. 2 (weeks 5–8)

DR A. BROADBENT

Mind, Knowledge and Meaning. F. 10 (weeks 1–8)

(Paper 7) Medicine from Antiquity to the Enlightenment

Course Organiser: Dr L. Kassell (email: ltk21@cam.ac.uk)

DR L. KASSELL

Primary Source. F. 12 (weeks 1–4)

DR R. FLEMMING, PROF. SIR GEOFFREY LLOYD AND DR L. TOTELIN

Medicine and Society in Greco-Roman Antiquity. F. 12 (weeks 5–8)

DR L. KASSELL, DR R. RALLEY, DR H. POWELL AND DR E. BRENNER

Medicine and Society, 1100–1700. Th. 3 (weeks 1–8)

(Paper 8) Modern Medicine and Biomedical Sciences

Course Organiser: Dr N. Hopwood (email: ndh12@cam.ac.uk)

DR V. HEGGIE

Primary Source. Tu. 2 (weeks 1–4)

DR N. HOPWOOD, DR R. BARNETT AND DR V. HEGGIE

Making Modern Medicine. M. 12 (weeks 1–5); Tu. 2 (weeks 5–6); Th. 2 (weeks 1–5)

DR R. BARNETT, DR V. HEGGIE AND DR N. HOPWOOD

Medicine in the Twentieth Century. M. 12 (weeks 6–8); Tu. 2 (weeks 7–8); Th. 2 (weeks 6–8)

(Paper 9) Images of the Sciences

Course Organiser: Prof. N. Jardine (email: nj103@cam.ac.uk)

PROF. N. JARDINE AND MS H. MACDONALD

Primary Source. M. 10 (weeks 1–4)

PROF. N. JARDINE, PROF. J. FORRESTER AND DR T. LEWENS

Ideologies of Science. Tu. 10 (weeks 1–8); M. 10 (weeks 5–8)

DR M. FRASCA-SPADA AND DR S. JOHN

Sources of Knowledge: Locke, Berkeley and Hume. Th. 12 (weeks 1–8)

DR G. BERRIOS

History of Psychopathology and Psychiatry. W. 2 (weeks 1–4)

DR M. SPREVAK

Thought and Computation. W. 2 (weeks 5–8)

DR A. AHMED

Personal Identity and Consciousness. F. 11 (weeks 1–8)

DR R. FLEMMING, PROF. SIR GEOFFREY LLOYD AND DR L. TOTELIN

The same continued. F. 12 (weeks 1–8)

DR L. KASSELL, DR R. RALLEY, DR H. POWELL AND DR E. BRENNER

The same continued. F. 2 (weeks 1–8)

DR E. ROBSON

Mesopotamian Medicine. Tu. 2 (weeks 1–4)

MR P. JONES

Medicine and Communication, 1375–1640. Th. 2 (weeks 1–4)

DR L. KASSELL

How to Live Forever. Th. 2 (weeks 5–8)

DR R. BARNETT

Birth and the Hospital. M. 12 (weeks 1–4)

PROF. J. FORRESTER

History of Psychiatry. M. 12 (weeks 5–8)

DR A. NATHOO

History and Politics of Global Health. Tu. 12 (weeks 1–4)

DR V. HEGGIE

Sport, Medicine and the Heart. Tu. 12 (weeks 5–8)

DR M. FRASCA-SPADA, PROF. N. JARDINE AND DR A. BREITNEBACH

Sources of Knowledge: Kant. Th. 10 (weeks 1–8)

PROF. N. JARDINE AND DR C. CHIMISSO

Histories of Science and their Uses. Tu. 3 (weeks 1–8)

DR P. FARA

People and Pictures. W. 10 (weeks 1–4)

Attention is drawn to courses announced by other authorities. Students are particularly advised to attend other relevant courses in the Faculties of History, Philosophy, and Social and Political Sciences.

DR N. WRIGHT

Latin for Beginners. M. Tu. Th. F. 5 (*Faculty of Classics*)

DR P. BURSILL-HALL

Topics in the History of Mathematics: Ancients to the Renaissance. W. F. 4 (*Room 9, Centre for Mathematical Sciences*)

DR R. BOAST, DR M. BRAVO AND DR R. DOUBLEDAY

Geographies of Science. Times to be announced (*Small Lecture Theatre, Department of Geography*)

DR N. WRIGHT

The same continued.

DR P. BURSILL-HALL

Topics in the History of Mathematics: Renaissance to the Nineteenth Century. W. F. 4 (*Room 9, Centre for Mathematical Sciences*)

DR J. MARENBOON

Avicenna and Aquinas on the Soul. M. 12 (*Faculty of Philosophy*)

DR C. BOURNE

Concepts of Probability. Th. 10 (weeks 5–8) (*Faculty of Philosophy*)

DR N. WRIGHT

The same continued.

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

MATERIALS SCIENCE AND METALLURGY

Course Organiser: Dr S. M. Best (email: PartII@msm.cam.ac.uk)
 Course Website: www.msm.cam.ac.uk/teaching/PtIIAB/

A detailed timetable is available on the Department course website, as above.

All lectures will be given in the *Seminar Room (T001)*.

DR J. A. ELLIOTT

C1 Introduction to Materials Modelling. (Six lectures)

DR K. M. KNOWLES

C3 Mathematical Methods. (Six lectures)

PROF. P. A. MIDGLEY

C4 Tensor Properties. (Twelve lectures)

PROF. H. K. D. BHADSHIA

C6 Crystallography. (Nine lectures)

DR J. A. LITTLE

C8 Chemical Stability. (Nine lectures)

PROF. A. H. WINDLE

C10 Structure and Properties of Polymers. (Twelve lectures)

DR C. RAE

C15 Fracture, Fatigue and Deformation. (Twelve lectures)**Speakers from Industry**

Details available from the Department website.

Visit to Industry

Details available from the Department website.

Examples Classes

Timetable available on the Department website.

Practical Classes

Details available from the Department website.

Management and Language Options

Details available from the Department website.

DR P. D. BRISTOWE

C5 Physical Properties. (Twelve lectures)

PROF. A. L. GREER

C7 Kinetics. (Nine lectures)

DR J. A. LITTLE

C9 Alloys (Nine lectures)

DR K. M. KNOWLES

C12 Plasticity and Deformation Processing. (Nine lectures)

DR S. M. BEST

C13 Ceramics. (Nine lectures)

DR R. E. CAMERON

C14 Polymer Processing. (Six lectures)

PROF. T. W. CLYNE

C16 Composite Materials. (Twelve lectures)

DR R. V. KUMAR

C17 Heat and Mass Transfer. (Six lectures)**Speakers from Industry**

Details available from the Department website.

Visit to Industry

Details available from the Department website.

Examples Classes

Timetable available on the Department website.

Practical Classes and Project

Details available from the Department website.

Management and Language Options

Details available from the Department website.

DR E. R. WALLACH

C2 Selection of Materials. (Six lectures)

DR S. M. BEST

C11 Surfaces and Interfaces. (Six lectures)

DR S. M. BEST

C18 Biomaterials. (Six lectures)**Examples Classes**

Timetable available on the Department website.

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

NEUROSCIENCE

BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR AND MINOR SUBJECT NEUROSCIENCE

Course Organiser: Dr John Rogers, (email: jhr11@cam.ac.uk)
 Course website: <http://www.bio.cam.ac.uk/teaching/neuroscience/index.html>

The course consists of a series of workshops, lectures and seminars around a framework of modules.
 Detailed timetables will be posted in the Department.

Module N1: Developmental Neurobiology

M. 9, Th. 9, F. 10

Module Organisers: Prof. R. J. Keynes (rjk10@cam.ac.uk)

& Dr J. H. Rogers (jhr11@cam.ac.uk)

Venue: TBA

PROF. M. BATE

Neurogenesis and patterning (Five lectures, 9, 10, 13, 16, 17 Oct.)

DR K. E. LEWIS

Development of spinal cord (Two lectures, 20, 23 Oct.)

DR G. M. W. COOK AND PROF. C. E. HOLT

Axon guidance (Four lectures, 24, 27, 30, 31 Oct.)

DR M. LANDGRAF

Synapse formation (Three lectures, 3, 6, 7 Nov.)

DR J. H. ROGERS

Synapse elimination and neurotrophic factors (Two lectures, 10, 13 Nov.)

DR R. LIVESEY

Development of cerebral cortex (Two lectures, 14, 17 Nov.)

PROF. W. A. HARRIS

Topographic map formation and tuning (Three lectures, 20, 21, 24 Nov.)

PROF. E. B. KEVERNE

Genetics and evolution of brain development (Three lectures, 27, 28 Nov., 1 Dec.)

Module N2: Molecular Neuroscience

M. 10, W. 9, F. 9

Module Organiser: Dr J. Morton (ajm41@cam.ac.uk)

Venue: TBA

DR R. D. MURRELL-LAGNADO

Voltage-gated ion channels (Five lectures, 10, 13, 15, 17, 20 Oct.)

DR S. CHAWLA

Regulation of gene transcription (Two lectures, 22, 24 Oct.)

DR B. BILLUPS

Glutamatergic transmission (Five lectures, 27, 29, 31 Oct., 2, 5 Nov.)

DR S. B. HLADKY

Cys-loop family of ligand-gated ion channels (Three lectures, 7, 10, 12 Nov.)

PROF. C. W. TAYLOR

Ca²⁺ signalling (Three lectures, 14, 17, 19 Nov.)

DR L. LAGNADO

Synaptic mechanisms (Four lectures, 21, 24, 26, 28 Nov.)

DR F. MARSHALL

Drug discovery (Two lectures, 1, 3 Dec.)

Module N5: Neural Degeneration and Regeneration

M. 9, W. 9, Th. 9

Module Organiser: Dr J. H. Rogers

(jhr11@cam.ac.uk)

Venue: TBA

DR J. MORTON

Neurodegenerative diseases (Four lectures, 15, 19, 21, 22 Jan.) *Shared with Pt2 Pharmacology, in Pharmacology lecture theatre*

DR R. TASKER

Damage to neurons: Ischaemia, excitotoxicity, and stroke (Four lectures, 26, 28, 29 Jan., 2 Feb.)

DR G. GARCIA-ALIAS

Spinal cord injury (Two lectures, 4, 5 Feb.)

DR J. H. ROGERS

Regeneration of axons (Four lectures, 9, 11, 12, 16 Feb.)

DR R. BARKER

Brain repair and neural grafting (Four lectures, 18, 19, 23, 25 Feb.)

DR S. POLLARD

Neural stem cells and adult neurogenesis (Three lectures, 26 Feb., 2, 4 Mar.)

PROF. R. FRANKLIN

Glial degeneration and repair (Three lectures, 5, 9, 11 Mar.)

Module N6: Central Mechanisms of Sensation and Behaviour

Tu. 9, Tu. 11, Th. 10

Module Organiser: Dr R. H. S. Carpenter

(rhsc1@cam.ac.uk)

Venue: TBA

DR D. J. TOLHURST

Higher processing of visual information (Four lectures, Tu. 11 (13 Jan.); Th. 10 (15 Jan.); Tu. 11 (20 Jan.); Th. 10 (22 Jan.))

DR R. D. PATTERSON

Central processing of auditory information (Four lectures, Tu. 9 & 11 (27 Jan.); Th. 10 (29 Jan.); Tu. 9 (3 Feb.))

PROF. S. LAUGHLIN

Neural mechanisms of sensory and motor integration (Four lectures, Tu. 11 (3 Feb.); Th. 10 (5 Feb.); Tu. 9 & 11 (10 Feb.))

PROF. D. WOLPERT

Computational sensorimotor control (Three lectures, Th. 10 (12 Feb.); Tu. 9 & 11 (17 Feb.))

DR R. H. S. CARPENTER

Neurobiology of decision (Three lectures, Th. 10 (19 Feb.); Tu. 9 & 11 (24 Feb.))

PROF. W. SCHULTZ

Neurobiology of reward (Three lectures, Th. 10 (26 Feb.); Tu. 9 & 11 (3 Mar.))

DR A. C. ROBERTS

Neural basis of emotion, and its regulation (Three lectures, Th. 10 (5 Mar.); Tu. 9 & 11 (10 Mar.))

DR R. H. S. CARPENTER AND PROF. W. SCHULTZ

NeuroDebate (One workshop, F. 2-5 (6 Mar.))

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

Module N3: Control of Action

Tu. 9, Tu. 11, F. 11

Module Organiser: Dr S. A. Edgley (sae1000@cam.ac.uk)
Venue: TBA

DR S. A. EDGLEY

Overview and intro to cerebellum (One lecture, Tu. 11 (7 Oct.))

DR S. A. EDGLEY

Cerebellum (Four lectures, F. 11 (10 Oct.); Tu. 9 and 11 (14 Oct.); F. 11 (17 Oct.))

PROF. R. N. LEMON

Corticospinal system (Four lectures, Tu. 9 and 11 (21, 28 Oct.))

DR H. R. MATTHEWS

Long latency reflexes (Four lectures, F. 11 (24, 31 Oct.); Tu. 9 and 11 (4 Nov.))

DR R. H. S. CARPENTER

Introduction to oculomotor control (One lecture, F. 11 (7 Nov.))

PROF. J. C. ROTHWELL

Basal ganglia (Four lectures, Tu. 9 and 11 (11, 25 Nov.))

DR S. A. EDGLEY

Cerebellum—problem solving discussion (One lecture, F. 11 (14 Nov.))

DR R. H. S. CARPENTER

Oculomotor control (Four lectures, Tu. 9 and 11 (18 Nov.); F. 11 (21, 28 Nov.))

DR R. H. S. CARPENTER

Oculomotor control—problem solving (One lecture, Tu. 9 (2 Dec.))

Module N4: Sensory Transduction

M. 12, W. 10, Th. 10

Module Organiser: Dr H. R. Matthews (hrm1@cam.ac.uk)
Venue: TBA

DR H. R. MATTHEWS

Vertebrate phototransduction (Five lectures, 9, 13, 15, 16, 20 Oct.)

DR R. PADINJAT

Invertebrate phototransduction (Four lectures, 22, 23, 27, 29 Oct.)

DR S. M. ROGERS

Insect hearing (Two lectures, 30 Oct., 3 Nov.)

DR H. R. MATTHEWS

Muscle spindles (Two lectures, 5, 6 Nov.)

PROF. P. MCNAUGHTON

Pain (Four lectures, 10, 12, 13, 17 Nov.)

PROF. A. C. CRAWFORD

Peripheral auditory system (Four lectures, 19, 20, 24, 26 Nov.)

DR H. R. MATTHEWS

Olfactory transduction (Three lectures, 27 Nov., 1, 3 Dec.)

Module N7: Local Circuits and Neural Networks

M. 11, W. 10, F. 9

Module Organiser: Dr D. J. Parker
(djp27@cam.ac.uk)

Venue: TBA

DR D. J. PARKER

Principles of network function/spinal cord networks (Four lectures, 16, 19, 21, 23 Jan.)

DR K. E. LEWIS

Molecular approaches to network organisation and function (Two lectures, 26, 28 Jan.)

PROF. S. LAUGHLIN

The design of local circuits (Four lectures, 30 Jan., 2, 4, 6 Feb.)

DR B. HEDWIG

Local circuit mechanisms in invertebrate model systems (Three lectures, 9, 11, 13 Feb.)

DR D. BURDAKOV

Hypothalamic networks (Three lectures, 16, 18, 20 Feb.)

DR I. M. WINTER

Brainstem auditory networks (Four lectures, 23, 25, 27 Feb., 2 Mar.)

DR H. P. C. ROBINSON

Cortical networks (Four lectures, 4, 6, 9, 11 Mar.)

Module N8: Learning, Memory and Cognition

M. 10, Tu. 10, F. 10

Module Organiser: Dr T. Bussey
(tjb1000@cam.ac.uk)

Venue: TBA

DR T. BUSSEY, DR L. SAKSIDA

Memory, Amnesia, Animal and Computational Models (Six lectures)

DR J. LEE

Mechanisms of Cellular-level Consolidation and Reconsolidation (Three lectures)

DR T. BUSSEY

Emotional Memory (Two lectures)

DR T. BUSSEY, DR L. SAKSIDA, DR B. J. MCCABE

Learning and Memory in Simple Systems (Four lectures)

DR J. LEE, DR J. SIMONS, DR L. CLARK

Higher Cognitive Functions (Nine lectures)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

PATHOLOGY
BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR SUBJECT PATHOLOGY

Course Organiser: Dr A. Kelly (email: apk23@cam.ac.uk)
 Course Website: www.path.cam.ac.uk

All lectures will be given in the Department of Pathology unless otherwise stated.

Introductory lecture

All options. W. 3 (One lecture, 8 Oct.) *It is important that all students attend the introductory lecture*

Option A: Cellular and Genetic Pathology Tu. Th. Sa. 9

Option Organiser: Dr C. A. Sargent (email: cas1001@cam.ac.uk) Tel: 33700

DR I. FURNER, DR D. GRIFFEN, DR S. BLOTT, DR C. SARGENT, DR D. RUBINSTEIN, DR D. R. SARGAN, DR A. MURREL, DR A. PHILPOTT AND DR M. HURLES

N.B. Some lectures are held at 11.30 or 12 noon

Part I: Genes, Genomes and Disease.

DR P. ELLIS, DR A. SHARKEY

Part II: Molecular Genetics and Pathology of Reproduction.

Option B: Immunology Tu. Th. 5, Sa. 10.15

Option Organiser: Dr N. Holmes (email: na106@cam.ac.uk) Tel: 33871

DR P. J. TROWSDALE, DR A. KELLY, DR P. LEHNER, DR C. KIRTON, DR H. REYBURN, DR A. COOKE, DR C. BRYANT, DR M. CLARK, DR L. MARTENSEN-BOPP, DR G. C. SMITH, DR N. HOLMES, DR D. T. FEARON AND DR H. SCHNEIDER

Option C: Microbial and Parasitic Disease M. W. F. 9

Option Organiser: Dr I. B. Kingston (email: ibk1000@mole.bio.cam.ac.uk) Tel: 33330

DR G. FRASER, DR R. HAYWARD, AND DR P. V. KORONAKIS Bacterial Disease and Pathogenicity.

DR D. BROWN, DR P. V. KORONAKIS, AND DR P. MASTROENI Combating Bacterial Disease.

DR N. BROWN AND DR A. M. LEVER Fungal Infections.

DR G. FRASER AND DR I. B. KINGSTON

Journal Research Seminars (12-1)

Option D: Virology M. W. F. 5

Option Organiser: Dr T. D. K. Brown (email: tdkb@hermes.cam.ac.uk) Tel: 36917

DR S. WYNNE, DR T. D. K. BROWN, DR I. BRIERLEY, DR P. DIGARD, DR J. SINCLAIR, DR J. GRAY AND DR S. EFSTATHIOU

Option E: Dynamics of Infectious Disease Tu. Th. 9, Th. 10

Venue: Rm. FW26 Computer Laboratory, William Gates Building

Option Organiser: Dr L. S. Tiley (email: lst21@cam.ac.uk) Tel: 39554

DR I. BROWN, DR T. FOOKS, DR A. GRANT, DR D. KING, DR J. MCCAULEY, DR D. MASKELL, DR T. J. MCKINLEY, DR J. MUMFORD, DR O. RESTIF, DR C. RUSSELL, DR L. TILEY AND DR J. WOOD

DR P. EDWARDS, DR A. H. WYLLIE, DR M.-Q. DU, DR V. P. COLLINS, DR A. BANNISTER, DR H. LAMAN, DR R. HEKETH, DR SHIVJI, DR S. TURNER, DR P. JONES, DR C. WATSON AND DR M. A. STANLEY

Part III: Defects in Cellular Growth and Differentiation: Cancer.

DR N. HOLMES, DR H. REYBURN, DR A. MOFFETT, DR B. A. BLACKLAWS, DR J. BONAME, DR F. RANDOW, DR P. MASTROENI, DR D. B. PALMER, DR E. A. GREEN AND DR G. BUTCHER

DR I. B. KINGSTON, DR J. AJIOKA, DR M. SHIRLEY, DR C. PEACOCK AND DR M. FIELD Major Protozoal Diseases.

DR M. FIELD, DR P. D. DUNNE, DR I. B. KINGSTON, DR Q. BICKLE AND DR E. MICHAEL Major Helminth Diseases.

DR I. B. KINGSTON AND DR J. W. AJIOKA

Journal Research Seminars (10-1)

DR G. TURNER, DR B. A. BLACKLAWS, DR J. BONAME, DR S. EFSTATHIOU, DR P. BORROW, DR T. D. K. BROWN, DR P. DIGARD, DR A. C. MINSON, DR J. C. STERLING, DR G. K. DARBY, DR H. BROWNE, DR P. D. MINOR, DR DR J. AJIOKA, DR J. GOG AND DR P. STEVENSON

DR B. BLACKLAWS, DR R. CLIFTON-HADLEY, DR A. DAVISON, DR T. DREW, DR H. FIELD, DR E. GRANT, DR S. GUBBINS, DR J. HEENEY, DR G. HEWISON, DR T. HUMPHREY, DR R. KAO, DR P. MELLOR, DR P. MASTROENI, DR O. PYBUS, DR O. RESTIF, DR J. SLATER, DR K. SMITH AND DR L. TILEY

DR S. CHARNOCK-JONES
 Part IV: Angiogenesis.

DR M. CLARK AND DR J. S. H. GASTON

DR M. BOOTH
 Epidemiology.
 DR I. B. KINGSTON AND DR H. DE KONING
 Parasite Vaccines and Chemotherapy.

Project Seminars Dates to be confirmed

DR T. D. K. BROWN, DR P. DIGARD AND DR S. EFSTATHIOU

DR R. BUJDOSO, DR D. GREEN, DR A. THACKERY, DR L. TILEY AND DR J. GOOD

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

PHARMACOLOGY
BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR SUBJECT PHARMACOLOGY

Course Organiser: Prof. C. W. Taylor (cwt1000@cam.ac.uk)
 Course Website: www.phar.cam.ac.uk/teaching/tea_part2.html

The introductory session for students will be at 9 a.m., Wednesday, 8 Oct. in the *Lecture Theatre, Department of Pharmacology*. It is expected to last all morning with a break for coffee.

Lectures will be given in the *Lecture Theatre, Department of Pharmacology*.

Systems Pharmacology

- DR L. J. MACVINISH
Pharmacology of Transporting Epithelia. (Four lectures, 9–16 Oct.) M. Tu. Th. 9
- DR L. J. MACVINISH
Study Skills (10 Oct. F. 10)
- DR M. A. BARRAND
Drug Delivery at the Blood Brain Barrier. (Three lectures, 20–24 Oct.) M. 9, W. F. 10
- DR Z. SARNYAI
Pharmacology of Psychiatric Disorders. (Six lectures, 28 Oct.–13 Nov.) Tu. Th. 9
- DR C. R. HILEY
Cardiovascular Pharmacology. (Six lectures, 10–21 Nov.) M. 9, W. F. 10
- PROF. V. K. K. CHATTERJEE
Drugs, Receptors and DNA. (Two lectures, 18–20 Nov.) Tu. Th. 9.
- DR M. A. BARRAND
Mechanisms of Drug Resistance. (Four lectures, 25 Nov.–4 Dec.) Tu. Th. 10

Molecular and Cellular Pharmacology

- DR R. D. MURRELL-LAGNADO
Voltage-gated Ion channels. (Five lectures, 10–20 Oct.) M. 10, W. F. 9
- DR S. CHAWLA
Regulation of Gene Transcription. (Two lectures, 22–24 Oct.) W. F. 9
- DR B. BILLUPS
Glutamatergic Transmission. (Five lectures, 27 Oct.–5 Nov.) M. 10, W. F. 9
- DR S. B. HLADKY
Cys-Loop Family of Ligand-gated Ion Channels. (Three lectures, 7–12 Nov.) M. 10, W. F. 9
- PROF. C. W. TAYLOR
Ca²⁺ Signalling (Three lectures, 14–19 Nov.) M. 10, W. F. 9
- DR L. LAGNADO
Synaptic Mechanisms (Four lectures, 21–28 Nov.) M. 10, W. F. 9
- DR F. MARSHALL
Drug Discovery (Two lectures, 1–3 Dec.) M. 10, W. 9

- DR F. GRIBBLE
Pancreatic Islet and Gut Hormones. (Three Lectures, 15–22 Jan.) Tu. 9, Th. 10
- DR A. J. MORTON
Neurodegenerative Diseases. (Six lectures, 15–28 Jan.) M. W. Th. 9
- DR R. M. HENDERSON
Cholesterol and Diabetes. (Six lectures, 26 Jan.–6 Feb.) M. W. 10, F. 9
- DR D. BURDAKOV
Sleep and Appetite. (Four lectures, 27 Jan.–5 Feb.) Tu. 10, Th. 9.
- DR L. HEISLER
Neurocircuitry Regulating Satiety. (Four lectures, 10–19 Feb.) Tu. Th. 9.
- DR T-P. FAN
Pharmacology of Inflammation and Angiogenesis (Six lectures, 24 Feb.–12 Mar.) Tu. Th. 9
- PROF. D. M. F. COOPER
Signalling by Cyclic AMP. (Five lectures, 14–23 Jan.) W. 14 and F. 16 at 9, M. 19 and W. 21 at 10, F. 23 at 9.
- DR L. RODERICK
Calcium Signalling and the Heart. (Two lectures) 5 Feb. Th. 9, 10 Feb. Tu. 10
- PROF. C. W. TAYLOR
G proteins and G-protein Coupled Receptors. (Four lectures, 6–13 Feb.) M. W. 9, F. 10
- PROF. P. MCNAUGHTON
Nociception. (Four lectures, 9–16 Feb.) M. W. 10, F. 9
- PROF. R. F. IRVINE
Inositol Signalling. (Five lectures, 18–27 Feb.) 18 Feb. W. 10, M. W. F. 9
- DR H. VAN VEEN
Molecular Aspects of Multidrug Transport. (Five lectures, 2–11 Mar.) M. W. F. 9

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

PHYSIOLOGY, DEVELOPMENT AND NEUROSCIENCE

BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR AND MINOR SUBJECT PHYSIOLOGY, DEVELOPMENT AND NEUROSCIENCE

Course Organiser: Dr S. O. Sage (email: sos10@cus.cam.ac.uk) (Michaelmas Term(and
Dr R. J. Adams (kja46@cam.ac.uk) (Lent and Easter Term)
Course Website: www.pdn.cam.ac.uk/teaching/

The course consists of a series of workshops, lectures and seminars around a framework of modules.
Detailed timetables will be posted in the Department.

Module N1: Developmental Neurobiology

M. 9, Th. 9, F. 10

Module Organisers: Prof. R. J. Keynes (rjk10@cam.ac.uk)
and Dr J. H. Rogers (jhr11@cam.ac.uk)

Venue: TBA

PROF. M. BATE

Neurogenesis and patterning (Five lectures, 9, 10, 13, 16,
17 Oct.)

DR K. E. LEWIS

Development of spinal cord (Two lectures, 20, 23 Oct.)

DR G. M. W. COOK AND PROF. C. E. HOLT

Axon guidance (Four lectures, 24, 27, 30, 31 Oct.)

DR M. LANDGRAF

Synapse formation (Three lectures, 3, 6, 7 Nov.)

DR J. H. ROGERS

Synapse elimination and neurotrophic factors (Two
lectures, 10, 13 Nov.)

DR R. LIVESEY

Development of cerebral cortex (Two lectures, 14, 17
Nov.)

PROF. W. A. HARRIS

Topographic map formation and tuning (Three lectures,
20, 21, 24 Nov.)

PROF. E. B. KEVERNE

Genetics and evolution of brain development (Three
lectures, 27, 28 Nov., 1 Dec.)

Module N2: Molecular Neuroscience

M. 10, W. 9, F. 9

Module Organiser: Dr J. Morton (ajm41@cam.ac.uk)

Venue: TBA

DR R. D. MURRELL-LAGNADO

Voltage-gated ion channels (Five lectures, 10, 13, 15, 17,
20 Oct.)

DR S. CHAWLA

Regulation of gene transcription (Two lectures, 22, 24
Oct.)

DR B. BILLUPS

Glutamatergic transmission (Five lectures, 27, 29, 31
Oct., 2, 5 Nov.)

DR S. B. HLADKY

Cys-loop family of ligand-gated ion channels (Three
lectures, 7, 10, 12 Nov.)

PROF. C. W. TAYLOR

Ca²⁺ signalling (Three lectures, 14, 17, 19 Nov.)

DR L. LAGNADO

Synaptic mechanisms (Four lectures, 21, 24, 26, 28 Nov.)

DR F. MARSHALL

Drug discovery (Two lectures, 1, 3 Dec.)

Module N5: Neural Degeneration and Regeneration

M. 9, W. 9, Th. 9

Module Organiser: Dr J. H. Rogers
(jhr11@cam.ac.uk)

Venue: TBA

DR J. MORTON

Neurodegenerative diseases (Four lectures, 15,
19, 21, 22 Jan.) *Shared with Pt2
Pharmacology, in Pharmacology lecture
theatre*

DR R. TASKER

Damage to neurons: Ischaemia, excitotoxicity,
and stroke (Four lectures, 26, 28, 29 Jan.,
2 Feb.)

DR G. GARCIA-ALIAS

Spinal cord injury (Two lectures, 4, 5 Feb.)

DR J. H. ROGERS

Regeneration of axons (Four lectures, 9, 11,
12, 16 Feb.)

DR R. BARKER

Brain repair and neural grafting (Four
lectures, 18, 19, 23, 25 Feb.)

DR S. POLLARD

Neural stem cells and adult neurogenesis
(Three lectures, 26 Feb., 2, 4 Mar.)

PROF. R. FRANKLIN

Glial degeneration and repair (Three lectures,
5, 9, 11 Mar.)

Module N6: Central Mechanisms of Sensation and Behaviour

Tu. 9, Tu. 11, Th. 10

Module Organiser: Dr R. H. S. Carpenter
(rhsc1@cam.ac.uk)

Venue: TBA

DR D. J. TOLHURST

Higher processing of visual information (Four
lectures, Tu. 11 (13 Jan.); Th. 10 (15 Jan.);
Tu. 11 (20 Jan.); Th. 10 (22 Jan.))

DR R. D. PATTERSON

Central processing of auditory information
(Four lectures, Tu. 9 & 11 (27 Jan.); Th. 10
(29 Jan.); Tu. 9 (3 Feb.))

PROF. S. LAUGHLIN

Neural mechanisms of sensory and motor
integration (Four lectures, Tu. 11 (3 Feb.);
Th. 10 (5 Feb.); Tu. 9 & 11 (10 Feb.))

PROF. D. WOLPERT

Computational sensorimotor control (Three
lectures, Th. 10 (12 Feb.); Tu. 9 & 11 (17
Feb.))

DR R. H. S. CARPENTER

Neurobiology of decision (Three lectures, Th.
10 (19 Feb.); Tu. 9 & 11 (24 Feb.))

PROF. W. SCHULTZ

Neurobiology of reward (Three lectures, Th.
10 (26 Feb.); Tu. 9 & 11 (3 Mar.))

DR A. C. ROBERTS

Neural basis of emotion, and its regulation
(Three lectures, Th. 10 (5 Mar.); Tu. 9 &
11 (10 Mar.))

DR R. H. S. CARPENTER AND PROF. W. SCHULTZ

NeuroDebate (One workshop, F. 2-5 (6 Mar.))

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

Module N3: Control of Action

Tu. 9, Tu. 11, F. 11

Module Organiser: Dr S. A. Edgley (sae1000@cam.ac.uk)

Venue: TBA

DR S. A. EDGLEY

Overview and intro to cerebellum (One lecture, Tu. 11 (7 Oct.))

DR S. A. EDGLEY

Cerebellum (Four lectures, F. 11 (10 Oct.); Tu. 9 and 11 (14 Oct.); F. 11 (17 Oct.))

PROF. R. N. LEMON

Corticospinal system (Four lectures, Tu. 9 and 11 (21, 28 Oct.))

DR H. R. MATTHEWS

Long latency reflexes (Four lectures, F. 11 (24, 31 Oct.); Tu. 9 and 11 (4 Nov.))

DR R. H. S. CARPENTER

Introduction to oculomotor control (One lecture, F. 11 (7 Nov.))

PROF. J. C. ROTHWELL

Basal ganglia (Four lectures, Tu. 9 and 11 (11, 25 Nov.))

DR S. A. EDGLEY

Cerebellum–problem solving discussion (One lecture, F. 11 (14 Nov.))

DR R. H. S. CARPENTER

Oculomotor control (Four lectures, Tu. 9 and 11 (18 Nov.); F.11 (21, 28 Nov.))

DR R. H. S. CARPENTER

Oculomotor control–problem solving (One lecture, Tu. 9 (2 Dec.))

Module N4: Sensory Transduction

M. 12, W. 10, Th. 10

Module Organiser: Dr H. R. Matthews

(hrm1@cam.ac.uk)

Venue: TBA

DR H. R. MATTHEWS

Vertebrate phototransduction (Five lectures, 9, 13, 15, 16, 20 Oct.)

DR R. PADINJAT

Invertebrate phototransduction (Four lectures, 22, 23, 27, 29 Oct.)

DR S. M. ROGERS

Insect hearing (Two lectures, 30 Oct., 3 Nov.)

DR H. R. MATTHEWS

Muscle spindles (Two lectures, 5, 6 Nov.)

PROF. P. MCNAUGHTON

Pain (Four lectures, 10, 12, 13, 17 Nov.)

PROF. A. C. CRAWFORD

Peripheral auditory system (Four lectures, 19, 20, 24, 26 Nov.)

DR H. R. MATTHEWS

Olfactory transduction (Three lectures, 27 Nov., 1, 3 Dec.)

Module N7: Local Circuits and Neural Networks

M. 11, W. 10, F. 9

Module Organiser: Dr D. J. Parker

(djp27@cam.ac.uk)

Venue: TBA

DR D. J. PARKER

Principles of network function/spinal cord networks (Four lectures, 16, 19, 21, 23 Jan.)

DR K. E. LEWIS

Molecular approaches to network organisation and function (Two lectures, 26, 28 Jan.)

PROF. S. LAUGHLIN

The design of local circuits (Four lectures, 30 Jan., 2, 4, 6 Feb.)

DR B. HEDWIG

Local circuit mechanisms in invertebrate model systems (Three lectures, 9, 11, 13 Feb.)

DR D. BURDAKOV

Hypothalamic networks (Three lectures, 16, 18, 20 Feb.)

DR I. M. WINTER

Brainstem auditory networks (Four lectures, 23, 25, 27 Feb., 2 Mar.)

DR H. P. C. ROBINSON

Cortical networks (Four lectures, 4, 6, 9, 11 Mar.)

Module N8: Learning, Memory and Cognition

M. 10, Tu. 10, F. 10

Module Organiser: Dr T. Bussey

(tjb1000@cam.ac.uk)

Venue: TBA

DR T. BUSSEY, DR L. SAKSIDA

Memory, Amnesia, Animal and Computational Models (Six lectures)

DR J. LEE

Mechanisms of Cellular-level Consolidation and Reconsolidation (Three lectures)

DR T. BUSSEY

Emotional Memory (Two lectures)

DR T. BUSSEY, DR L. SAKSIDA, DR B. J. MCCABE

Learning and Memory in Simple Systems (Four lectures)

DR J. LEE, DR J. SIMONS, DR L. CLARK

Higher Cognitive Functions (Nine lectures)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

Module P1: Cellular Physiology

M. 11, Tu. 10, W. 9

Module Organiser: Dr C. J. Schwiening
(cjs30@cam.ac.uk)

Venue: TBA

DR V. L. LEW

Cellular calcium (Two lectures)

MR A. HARPER AND DR S. O. SAGE

Calcium signalling (Five lectures)

PROF. C.L.-H. HUANG

Voltage gated calcium channels (One lecture)

DR M. J. MASON

Patch clamping (One lecture)

DR R. WHITE

Molecular techniques (One lecture)

PROF. R. C. THOMAS

Cellular pH (Three lectures)

DR O. LARINA

pH (Two lectures)

PROF. C.L.-H. HUANG

Excitation-contraction coupling (Two lectures)

DR M. J. MASON

Fluorescence measurements of Ca²⁺ (Two lectures)

DR H. P. C. ROBINSON

Synaptic mechanisms (Two lectures)

DR D. J. PARKER

Synaptic and metaplasticity (Three lectures)

DR J. FRASER

Cellular modelling (Two lectures)

Module P2: Early development and Assisted Reproductive Technologies

M. 2, Tu. 11, F. 9

Module Organiser: Prof. M. H. Johnson
(mhj21@cam.ac.uk)

Venue: TBA

PROF. M. H. JOHNSON

Fecundity, fertility and sub-fertility (One seminar, 13 Oct.)

PROF. M. H. JOHNSON

The IVF/ICSI treatment cycle: what's involved? (Two lectures, 14, 17 Oct.)

PROF. M. H. JOHNSON

Fertilisation and early development. The mouse as a model system—cell biology (One lecture, 20 Oct.)

DR K. ELDER

How does the human embryo differ from the mouse and what makes a good one? (Two lectures, 21, 24 Oct.)

DR A. BRUCE

The mouse as a model system—molecular biology (Two lectures, 27, 28 Oct.)

PROF. M. H. JOHNSON

Journal club (One journal club, 31 Oct.)

PROF. P. BRAUDE

Preimplantation genetic diagnosis—science and ethics collide (One lecture, 3 Nov.)

DR A. SHARKEY

Mechanisms of implantation (Two lectures, 4, 7 Nov.)

DR A. SHARKEY

New treatments for infertility. New approaches to contraception (One lecture, 10 Nov.)

DR J. NICHOLLS

Embryonic stem cells—what are they? How do they relate to embryos? How do we generate them? (Two lectures, 11, 14 Nov.)

DR V. ENGLISH

Law, ethics and reproduction (One lecture, 17 Nov.)

PROF. M. H. JOHNSON

A paper on embryos with a mixed animal: human genetic composition (One journal club, 18 Nov.)

PROF. M. H. JOHNSON

Why state interference in reproduction? (One lecture, 21 Nov.)

MS Z. GURTIN-BROADBENT

Patients' perspectives on assisted reproduction (One lecture, 24 Nov.)

Module P6: Development: Cell Differentiation and Organogenesis

M. 5, Tu. 2, W. 5, F. 5

Module Organisers: Dr H. A. Baylis
(hab@mole.bio.cam.ac.uk) and Dr N. Brown
(nb117@mole.bio.cam.ac.uk)

(Interdepartmental Course with Zoology)

Venue: TBA

DR H. BAYLIS, DR N. BROWN AND PROF. S. BRAY

Introduction: setting out the questions (One lecture, 16 Jan.)

PROF. A. SURANI

Stem cells, germ cells and sex determination (Four lectures, 19, 21, 23, 26 Jan.)

DR H. BAYLIS, DR N. BROWN AND PROF. S. BRAY

Introduction to P6 Journal Clubs (One lecture, 20 Jan.)

PROF. A. SURANI

Journal Club: Stem cells, germ cells and sex determination (One journal club, 27 Jan.)

PROF. S. BRAY

Limb development (Four lectures, 28, 30 Jan., 2, 4 Feb.)

PROF. S. BRAY

Journal Club: Limb development (One journal club, 3 Feb.)

DR H. BAYLIS

Gene regulatory networks and differentiation (Four lectures, 6, 9, 11, 13 Feb.)

DR N. BROWN AND DR K. ROEPER

Epithelial polarity and tubulogenesis (Four lectures, 16, 18, 20, 23 Feb.)

DR H. BAYLIS

Journal Club: Gene regulatory networks and differentiation (One journal club, 17 Feb.)

DR N. BROWN AND DR K. ROEPER

Journal Club: Epithelial polarity and tubulogenesis (One journal club, 24 Feb.)

DR P. SCHOFIELD AND DR B. DENHOLM

Development of internal organs (Four lectures, 25, 27 Feb., 2, 4 Mar.)

DR P. SCHOFIELD AND DR B. DENHOLM

Journal Club: Development of internal organs (One journal club, 3 Mar.)

DR M. AGATHOCLEOUS AND PROF. W. A. HARRIS

Growth control and cancer (Three lectures, 6, 9, 11 Mar.)

DR M. AGATHOCLEOUS AND PROF. W. A. HARRIS

Journal Club: Growth control and cancer (One journal club, 10 Mar.)

Module P7: Genomics and the Future of Medicine

M. 10, Th. 2, F. 10

Module Organiser: Prof. A. Ferguson-Smith
(afsmith@mole.bio.cam.ac.uk)

Venue: TBA

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

Module P3: Fetal and Placental Physiology

M. 12, Th. 10, F. 12

Module Organiser: Dr D. A. Giussani
(dag26@cam.ac.uk)

Venue: TBA

PROF. G. BURTON

Placental development and function (Three lectures, 9, 10, 13 Oct.)

DR M. CONSTANCIA

Role of imprinting in feto-placental development (Two lectures, 16, 17 Oct.)

DR S. K. L. ELLINGTON

Early development: effects of oxygen and glucose (Three lectures, 20, 23, 24 Oct.)

PROF. A. L. FOWDEN

Growth and metabolism of the fetus (Four lectures, 27, 30, 31 Oct., 3 Nov.)

DR J. K. JELLYMAN

Development of fetal organs: heart/lungs/kidney (Three lectures, 6, 7, 10 Nov.)

DR E. J. CAMM

Development of fetal organs: brain (One lecture, 13 Nov.)

PROF. A. L. FOWDEN

Development of fetal organs: adrenal (One lecture, 14 Nov.)

DR A. J. FORHEAD

Development of fetal organs: thyroid (One lecture, 17 Nov.)

DR D. A. GIUSSANI

Cardiovascular function (Three lectures, 20, 21, 24 Nov.)

DR A. J. FORHEAD

Fetal maturation in preparation for birth (One lecture, 27 Nov.)

DR D. A. GIUSSANI

Mechanisms of parturition (One lecture, 28 Nov.)

DR D. A. GIUSSANI

Fetal and postnatal breathing (One lecture, 1 Dec.)

DR A. J. FORHEAD AND DR S. E. OZANNE

Intrauterine programming of adult pathophysiology (Two lectures, 4, 5 Dec.)

Module P4: Development: Patterning the Embryo

M. 11, Tu. 12, W. 2, F. 11

Module Organiser: Dr R. J. Adams (rja46@cam.ac.uk)
(Interdepartmental Course with Zoology)

Venue: TBA

DR R. WHITE AND DR I. PALACIOS

Introduction: setting up the problems (One lecture, 10 Oct.)

DR I. PALACIOS AND DR R. J. ADAMS

Model organisms and experimental approaches (One lecture, 13 Oct.)

DR N. BROWN

How cells become different from one another (Four lectures, 14, 17, 20, 21 Oct.)

DR R. WHITE AND DR I. PALACIOS

Introduction to journal club (One journal club, 15 Oct.)

DR N. BROWN

Journal club (One journal club, 22 Oct.)

DR I. PALACIOS, DR H. BAYLIS AND DR M. ZERNICKA-GOETZ

Egg polarity and body axes (Six lectures, 24, 27, 28, 31 Oct., 3, 4 Nov.)

DR I. PALACIOS, DR H. BAYLIS AND DR M. ZERNICKA-GOETZ

Journal club (One journal club, 5 Nov.)

PROF. J. C. SMITH, DR R. J. ADAMS, DR B. SANSON AND DR M. ZERNICKA-GOETZ

Gastrulation (Six lectures, 7, 10, 11, 14, 17, 18 Nov.)

PROF. J. C. SMITH, DR R. J. ADAMS, DR B. SANSON AND DR M. ZERNICKA-GOETZ

Journal club (Two journal clubs, 12, 19 Nov.)

DR R. WHITE, DR M. VERMEREN AND DR B. SANSON

Dividing up the embryo (segmentation) and segment identity (Six lectures, 21, 24, 25, 28 Nov., 1, 2 Dec.)

DR R. WHITE, DR M. VERMEREN AND DR B. SANSON

Journal club (One journal club, 26 Nov.)

DR N. BROWN, DR I. PALACIOS AND DR R. J. ADAMS

Fun finale (One journal club, 2 Dec.)

Module P8: Systems and Clinical Physiology

M. 11, W. 11, F. 11

Module Organiser: Dr R. J. Barnes
(rjb4@cam.ac.uk)

Venue: TBA

DR R. J. BARNES

Cardiovascular system in exercise (Four lectures, 16, 19, 21, 23 Jan.)

DR I. SABIR

Cardiac arrhythmia (Two lectures, M. 11 (26 Feb.); M. 2 (26 Feb.))

DR A. MURRAY

Genetics and energetics of heart failure (Two lectures, 28, 30 Jan.)

DR N. W. MORRELL

Pulmonary circulation (Two lectures, 2, 4 Feb.)

DR A. GETGOOD

Cartilage physiology (Two lectures, 6, 13 Feb.)

PROF. J. COMPSTON

Bone physiology (Two lectures, 9, 11 Feb.)

PROF. D. B. DUNGER

Diabetes mellitus (Two lectures, 16, 18 Feb.)

DR G. S. H. YEO

Genetics of obesity (Three lectures, 20, 23 25 Feb.)

DR J. ROCHFORD

Adipogenesis and lipodystrophy (Two lectures, 27 Feb., 2 Mar.)

DR J. BRADLEY

Chronic renal failure (Two lectures, 4, 6 Mar.)

DR J. FIRTH

Acute renal failure (Two lectures, 9, 11 Mar.)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

Module P9: Cell Assembly and Interactions

M. 5, W. 5, Th.2, F. 5

Module Organisers: Dr H. A. Baylis

(hab@mole.bio.cam.ac.uk) and Dr N. Brown

(nb117@mole.bio.cam.ac.uk)

(Interdepartmental Course with Zoology)

Venue: TBA

DR H. BAYLIS AND DR N. BROWN

Introduction (One lecture, 10 Oct.)

M. ROBINSON

Coated vesicles and traffic through the Golgi (Three lectures, 13, 15, 17 Oct.)

TBC

Introduction to journal clubs (One journal club, 15 Oct. 2-4) *Joint with P4*

PROF. P. LUZIO

Post-Golgi traffic (Three lectures, 20, 22, 24 Oct.)

M. ROBINSON

Trafficking (One journal club, 23 Oct.)

DR R. WHITE

Nuclear architecture (Two lectures, 27, 29 Oct.)

DR R. WHITE

Nuclear architecture (One journal club, 30 Oct.)

DR H. BAYLIS

Cell signalling (Four lectures, 31 Oct., 3, 5, 7 Nov.)

DR H. BAYLIS

Cell signalling (One journal club, 6 Nov.)

J-P. VINCENT

Vesicular trafficking and intercellular signalling (Two lectures, 10, 12 Nov.)

DR H. BAYLIS

The polarized cell (Two lectures, 14, 17 Nov.)

DR N. BROWN

Adhesion and junctions (Three lectures, 19, 21, 24 Nov.)

DR R. J. ADAMS

Cytoskeleton and cell movement (Three lectures, 26, 28 Nov., 1 Dec.)

DR N. BROWN

Adhesion and junctions (One journal club, 27 Nov.)

DR H. BAYLIS AND DR N. BROWN

Integrative finale (One lecture, 3 Dec.)

DR R. J. ADAMS

Cytoskeleton and cell movement (One journal club, 4 Dec.)

Module N9: Research Skills in Neuroscience

W. 3, Th. 3

Module Organiser: Dr A. C. Roberts (acr4@cam.ac.uk)

Venue: TBA

DR A. C. ROBERTS

Introduction to module (One lecture, 9 Oct.)

DR G. M. W. COOK AND PROF. A. BRAND

Workshop 1: Wiring the brain: how growing axons find their targets (Two workshops, 15, 16 Oct.)

DR G. M. W. COOK AND PROF. A. BRAND

Journal club/Supervision for workshop 1 (One workshop, 22 Oct.)

DR D. J. PARKER AND PROF. W. A. HARRIS

Workshop 2: Network formation and function (Two workshops, 5, 6 Nov.)

DR D. J. PARKER AND PROF. W. A. HARRIS

Journal club/Supervision for workshop 2 (One workshop, 12 Nov.)

DR D. J. TOLHURST AND DR S. A. EDGLEY

Workshop 3: Spike coding (Two workshops, 26, 27 Nov.)

Module N9: Research Skills in Neuroscience

Tu. 3, W. 3

Module Organiser: Dr A. C. Roberts

(acr4@cam.ac.uk)

Venue: TBA

DR D. J. TOLHURST AND DR S. A. EDGLEY

Journal club/Supervision for workshop 3 (One workshop, 14 Jan.)

DR A. C. ROBERTS AND PROF. W. SCHULTZ

Workshop 4: The cognitive brain (Two workshops, 27, 28 Jan.)

DR A. C. ROBERTS AND PROF. W. SCHULTZ

Journal club/Supervision for workshop 4 (One workshop, 3 Feb.)

DR H. F. CLARKE AND M.-S. MAN

Workshop 5: Neurochemistry of the mind (Two workshops, 3, 4 Mar.)

DR H. F. CLARKE AND M.-S. MAN

Journal club/Supervision for workshop 5 (One workshop, 10 Mar.)

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

PLANT SCIENCES

BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR SUBJECT PLANT SCIENCES

Course Organiser: Dr John Carr (email: jpc1005@cam.ac.uk)

Module Organisers appear below. email: firstname.surname@plantsci.cam.ac.uk unless otherwise specified

Course Website: www.plantsci.cam.ac.uk/teaching/psii/

All lectures take place in *the Seminar Room, Department of Plant Sciences* unless otherwise stated.

The Biological and Biomedical Sciences (Major Subject Plant Sciences) course consists of lectures from the modules below. Students can offer either Cellular Plant Sciences (modules M1, M4, L1 and L4), or Ecological Plant Sciences (modules M3 and either M1 or Zoology M3; and L2, Zoology L2).

Module M1: Frontiers in Plant-Microbe Interactions

Module organiser: Dr John Carr

DR H. ZIEBELL, DR J. P. CARR, PROF. D. J. BAULCOMBE AND
PROF. J. BROON

M. W. F. 12 (Twenty-four lectures, 10 Oct.–3 Dec.)

Module M2: Plant Metabolism

Module organiser: Prof. John Gray

DR J. M. HIBBERD, PROF. J. NAPIER, DR P. DUPREE, PROF. J. C.
GRAY AND DR A. N. OTHER

M. W. F. 10 (Twenty-four lectures, 10 Oct.–3 Dec.)

Module M3: Dynamics, History and Future of Vegetation

Module organiser: Prof. Howard Griffiths

PROF. H. GRIFFITHS, DR D. A. COOMES, DR E. V. J. TANNER
AND PROF. O. RACKHAM

M. F. 9 Tu. 10 (Twenty-four lectures, 10 Oct.–2 Dec.)

Module M4: Plant Signalling Networks

Module organiser: Dr Alex Webb

DR J. M. DAVIES, DR D. E. HANKE AND DR A. A. R. WEBB

Tu. W. Th. 9 (Twenty-four lectures, 9 Oct.–3 Dec.)

Module L1: Development of Plants and Fungi

Module organiser: Dr Jim Haseloff

DR J. HASELOFF, PROF. L. DOLAN, DR D. E. HANKE
AND A. N. OTHERM. W. F. 9 (Twenty-four lectures, 16 Jan.–11
Mar.)**Module L2: Plant Responses to the Environment**

Module organiser: Dr Ed Tanner

DR E. V. J. TANNER, PROF. H. GRIFFITHS, DR J. M.
HIBBERD AND DR D. PURVESM. W. F. 10 (Twenty-four lectures, 16 Jan.–11
Mar.)**Module L3: Plant Genes and Organelles**

Module organiser: Prof. John Gray

DR A. N. OTHER, DR C. HOWE, PROF. J. C. GRAY, DR
K. LILLEY AND DR P. DUPREETu. Th. 10, W 11 (Twenty-four lectures, 15
Jan.–11 Mar.)**Module L4: Frontiers in Microbial Physiology and Ecology**

Module organiser: Prof. Howard Griffiths

DR K. JOHNSTONE, DR J. BALK, PROF. H.
GRIFFITHS AND DR B. SCHARB-RIDLEYM. W. F. 12 (Twenty-four lectures, 16 Jan.–11
Mar.)

The modules below may also be offered in Part II Plant Sciences (Part II Zoology modules). All lectures to take place in the Main Lecture Theatre.

Aquatic Ecology*Interdepartmental Module*

Module organiser: Dr D. Aldridge

DR D. ALDRIDGE, DR M. BROOKE, DR R. BARNES AND PROF.
A. CLARKE

M. W. F. 11 (Twenty-four lectures, 10 Oct.–3 Dec.)

Population Biology*Interdepartmental Module*

Module organiser: Dr A. Manica

DR A. MANICA, DR C. RUSSELL, DR D. SMITH, DR D. COOMES,
DR W. AMOS AND DR R. JOHNSTONE

M. W. F. 5 (Twenty-four lectures, 10 Oct.–3 Dec.)

Conservation Biology*Interdepartmental Module*

Module organiser: Prof. A. Balmford

DR M. BROOKE, DR I. HODGE, DR W. AMOS, DR R.
GREEN, DR E. TANNER, DR J. O'SULLIVAN
AND PROF. A. BALMFORDM. W. F. 4 (Twenty-four lectures, 16 Jan.–11
Mar.)**Behavioural Ecology***Department of Zoology*

Module organiser: Dr R. A. Johnstone

PROF. N. B. DAVIES, DR R. JOHNSTONE, DR R.
KILNER, PROF. T. H. CLUTTON-BROCK AND
DR W. FOSTERTu. Th. Sa. 10 (Twenty-four lectures, 16
Jan.–11 Mar.)

The following non-examined module is compulsory in Part II Plant Sciences:

Statistics for Part II Biologists

DR B. J. MCCABE

(6 Oct.) M. 9 and 2, M. Tu. W. Th. F. 2 (Ten lectures,
6–16 Oct.) *Main Lecture Theatre, Department of
Zoology*

Please note early start of course.

Practical work(Ten classes) M. W. F. 10–12 or 3–5 (6, 8, 10 Oct.); M.W.
F. 3–5 (13, 15, 17, 20 Oct.) *The Titan Teaching
Rooms, New Museums Site*

Please note early start of course.

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2007

LENT 2008

EASTER 2008

PSYCHOLOGY

BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR SUBJECT PSYCHOLOGY

Course Organiser: Professor A. Dickinson (email: ad15@cam.ac.uk)

Lectures will be held in the *Lecture Theatre, Department of Experimental Psychology* unless otherwise stated.

PROF. T. W. ROBBINS

General Introduction. Th. 5 (One lecture, 9 Oct.)

DR M. R. F. AITKEN

Statistics. W. F. 2 (Six lectures, 15–31 Oct.)

Practical Classes. M. 2–4 (Three classes, 20 Oct.–3 Nov.),

Physiology Lecture Theatre 3

Analysis of Variance. M. F. 2 (Four lectures, 21 Nov.–1 Dec.)

Practical Classes. W. 2–4 (Two classes, 26 Nov., 3 Dec.)

*Physiology Lecture Theatre 3***Module A1: Visual Perception and Cognition**

DR G. J. DAVIS

M. 9 (Eight lectures, 13 Oct.–1 Dec.)

PROF. J. D. MOLLON

Tu. 5 (Eight lectures, 14 Oct.–2 Dec.)

Module A2: Auditory and Speech Perception

PROF. B. C. J. MOORE

W. Th. 9 (Sixteen lectures, 15 Oct.–4 Dec.)

Module A3: Comparative Psychology of Learning and Cognition

PROF. N. S. CLAYTON

M. Th. 12, F. 9 (Thirteen lectures, 10 Oct.–1 Dec.)

PROF. A. DICKINSON

Th. 12, F. 9 (Eleven lectures, 16 Oct.–4 Dec.)

Module B1: Motivation and Psychopathology

PROF. B. J. EVERITT AND PROF. T. W. ROBBINS

M. 10, W. 11 (Fourteen lectures, 13 Oct.–1 Dec.)

Module C1: Developmental Psychology

PROF. D. BOWLER

F. 10 (Eight lectures, 10 Oct.–28 Nov.)

Module C2: Atypical Psychology

DR K. C. PLAISTED

W. 10 (Four lectures, 15 Oct.–5 Nov.)

DR G. FAIRCHILD

F. 12 (Four lectures, 14 Nov.–5 Dec.)

PROF. S. BARON-COHEN

Tu. 12 (Eight lectures, 14 Oct.–2 Dec.)

DR L. BROSNAN

W. 5 (Four lectures, 12 Nov.–3 Dec.)

Module C4: Individual Differences

PROF. N. J. MACKINTOSH

Tu. Th. 10 (Ten lectures, 14 Oct.–18 Nov.)

DR K. C. PLAISTED

M. 11 (Four lectures, 13 Oct.–3 Nov.)

DR L. CLARK

M. 11 (Four lectures, 10 Nov.–1 Dec.)

PROF. M. P. HAGGARD

Data Analysis and Interpretation. Th. 2 (Two classes, 15–22 Jan.)

PROF. M. P. HAGGARD

Qualitative Methods and their Application. Tu. 4 (Four classes, 13 Jan.–3 Feb.)

DR M. R. F. AITKEN

Experimental Design. Th. 2–4 (One class, 12 Mar.)

Module A1: Visual Perception and Cognition

PROF. J. D. MOLLON

M. 9 (Eight lectures, 12 Jan.–2 Feb., 16 Feb.–9 Mar.)

Module A2: auditory and speech perception

DR J. I. ALCÁNTARA

W. 9 (Eight lectures, 14 Jan.–4 Feb., 18 Feb.–11 Mar.)

Module A4: Human Memory and Decisions

DR M. R. F. AITKEN ET AL.

M. W. 11, Tu. 12 (Twenty-four lectures, 12 Jan.–4 Feb., 16 Feb.–11 Mar.)

Module B1: Motivation and Psychopathology

PROF. B. J. EVERITT

W. 10 (Six lectures, 21 Jan.–4 Feb., 18 Feb.–4 Mar.)

DR P. FLETCHER

Th. 5 (Four lectures, 19 Feb.–12 Mar.)

Module B2: Memory and Higher Functions

DR C. ROMBERG ET AL.

M. Tu. F. 10 (Twenty-four lectures, 16 Jan.–10 Mar.) *Physiology Main Lecture Theatre***Modules B1 and B2**

PROF. T. W. ROBBINS AND PROF. A. DICKINSON

Tu. 2–4 (Eight seminars, 20 Jan.–10 Mar.)

Module B3: Language

DR M. MIOZZO ET AL.

M. 12, 5, Th. 9 (Twenty Three lectures, 12 Jan.–5 Feb., 16 Feb.–5 Mar.)

Module C1: Developmental Psychology, Social Psychology and Individual Differences

DR J. STEVENSON-HINDE AND PROF. R. HINDE

Tu. W. 5 (Eight lectures, 13 Jan.–4 Feb.)

DR I. DUMONTHEIL

F. 11 (Eight lectures, 16 Jan.–6 Feb., 20 Feb.–13 Mar.)

Module C2: Atypical Psychology

DR E. WEISBLATT

Tu. 5 (Four seminars, 17 Feb.–10 Mar.)

Module C4: Individual Differences

PROF. J. D. MOLLON

F. 9 (Four lectures, 16 Jan.–6 Feb.)

Attention is drawn to lectures organised by the Faculty of Social and Political Sciences for the Paper Psy 1 (Social Psychology) given for Parts IIA and IIB of the Social and Political Sciences Tripos, Tu. 2 and W. 12 throughout the Michaelmas Term; and M. 2 and W. 12 throughout the Lent Term.

NATURAL SCIENCES TRIPOS, PART II (continued)

MICHAELMAS 2008

LENT 2009

EASTER 2009

ZOOLOGY

BIOLOGICAL AND BIOMEDICAL SCIENCES: MAJOR SUBJECT ZOOLOGY

Course Organiser: Dr N. Mundy (email: nim21@cam.ac.uk)
 Course Website: www.zoo.cam.ac.uk/degree/2zoology/index.html

Lectures will be given in the *Department of Zoology, Part II Lecture Theatre* unless otherwise stated.

M1 Topics in Vertebrate Evolution

Module organiser: Prof. J. A. Clack
 PROF. J. CLACK, DR R. SANSOM, DR Z. JOHANSON, DR A. R.
 MILNER, DR L. NOË, PROF. S. E. EVANS, DR R. BUTLER
 AND DR D. M. UNWIN
 M. W. F. 10 (Twenty-four lectures, beginning 10 Oct.)

M2 Aquatic Ecology

Module organiser: Dr D. Aldridge
 DR D. ALDRIDGE, DR M. BROOKE, DR R. BARNES AND PROF.
 A. CLARKE
 M. W. F. 11 (Twenty-four lectures, beginning 10 Oct.)

M3 Population Biology

Module organiser: Dr A. Manica
 DR A. MANICA, DR C. RUSSELL, PROF. D. SMITH, DR D.
 COOMES, PROF. W. AMOS AND DR R. JOHNSTONE
 M. W. F. 5 (Twenty-four lectures, beginning 10 Oct.)

M4 Neural Mechanisms of Behaviour

Module organiser: Dr S. Rogers
 PROF. M. BURROWS, PROF. S. B. LAUGHLIN, DR S. ROGERS, DR
 B. MCCABE, PROF. E. B. KEVERNE AND PROF. C. M.
 BATE
 Tu. Th. Sa. 11 (Twenty-four lectures, beginning 9 Oct.)

M5 Behaviour

Module organiser: Prof. E. B. Keverne
 DR B. MCCABE, PROF. E. B. KEVERNE, DR N. EMERY, DR N.
 MUNDY AND PROF. P. BATESON
 Tu. Th. 9, Sa. 10 (Twenty-four lectures, beginning 9 Oct.)

M6 Cell Assembly and Interactions

(*Interdepartmental course with PDN*)
 Module organisers: Dr H. Baylis and Dr N. Brown
 DR H. BAYLIS, DR N. BROWN, PROF. M. ROBINSON, PROF. P.
 LUZIO, DR R. WHITE, DR J-P. VINCENT AND DR R.
 ADAMS
 M. W. F. 4 (Twenty-four lectures plus six journal clubs
 beginning 10 Oct.)

M7 Control of Cell Growth and Genome Stability

Module organiser: Prof. S. P. Jackson
 DR J. PINES, PROF. S. P. JACKSON, DR K. DRY, DR J. RAFF, DR
 M. JACKMAN, DR T. KRUDE, DR G. DE LA CUEVA
 MÉNDEZ, DR A. KAIDI, DR S. POLO AND DR T.
 LITTLEWOOD
 M. W. F. 9 (Twenty-four lectures, beginning 10 Oct.)

M8 Development: Patterning an embryo

(*Interdepartmental course with PDN*)
 Module organisers: Dr I. Palacios and Dr R. Adams
 DR R. WHITE, DR N. BROWN, PROF. P. SIMPSON, DR H.
 SKAER, DR R. ADAMS, DR B. SANSON, DR I. PALACIOS,
 DR H. BAYLIS, DR M. ZERNICKA-GOETZ, PROF. J. SMITH
 AND DR R. KEYNES
 M. 11, Tu. 12, F. 11 (Twenty-four lectures, with six
 seminars beginning 10 Oct.)

L1 Mammalian Evolution and Faunal History

Module organiser: Dr R. Asher
 DR R. C. PREECE, DR T. KEMP, DR R. ASHER AND
 DR E. WESTON
 M. W. F. 10 (Twenty-four lectures, beginning
 16 Jan.)

L2 Conservation Biology

Module organiser: Prof. A. Balmford
 DR M. BROOKE, DR I. HODGE, PROF. W. AMOS,
 PROF. W. SUTHERLAND, DR A. ROGERS, DR
 D. COOMES, DR R. GREEN, DR E. TANNER,
 DR J. O'SULLIVAN AND PROF. A. BALMFORD
 M. W. F. 4 (Twenty-four lectures, beginning
 16 Jan.)
 All lectures to take place in the Main Lecture
 Theatre.

L3 Behavioural Ecology

Module organiser: Dr R. A. Johnstone
 PROF. N. B. DAVIES, DR R. JOHNSTONE, DR R.
 KILNER, PROF. T. H. CLUTTON-BROCK AND
 DR W. FOSTER
 Tu. Th. Sa. 10 (Twenty-four lectures,
 beginning 15 Jan.)
 All lectures to take place in the Main Lecture
 Theatre.

L5 Genes, Genomes and Animal Evolution

Module organiser: Prof. M. Akam
 PROF. W. AMOS, DR G. WALKER, DR N. MUNDY, DR
 J. JAEGER, PROF. P. SIMPSON AND DR C.
 JIGGINS
 M. W. F. 11 (Twenty-four lectures, beginning
 16 Jan.)

L6 Development: Cell differentiation and organogenesis

(*Interdepartmental course with PDN*)
 Module organisers: Dr H. Baylis and Dr N.
 Brown
 DR H. BAYLIS, DR N. BROWN, DR S. BRAY, PROF.
 A. SURANI, DR K. ROEPER, DR P.
 SCHOFIELD, DR B. DENHOLM, DR M.
 AGATHOCLEOUS AND PROF. W. HARRIS
 M. W. F. 5
 (Twenty-four lectures plus six journal clubs
 beginning 16 Jan.)

L7 Control of Gene Expression

Module organiser: Dr T. Krude
 DR T. KRUDE, DR A. KIRMIZIS, DR A.
 BANNISTER, DR P. HURD, DR J. MATA, DR D.
 SCADDEN, DR H. BAYLIS, PROF. C. SMITH,
 DR I. PALACIOS AND DR N. STANDART
 M. W. F. 9 (Twenty-four lectures, beginning
 16 Jan.)
 First nine lectures in the *Department of
 Zoology*; the following fifteen lectures
 take place in the *Department of
 Biochemistry*

Human Biology

Module organiser: Prof. T. H. Clutton-Brock
 PROF. R. FOLEY, PROF. W. SUTHERLAND, PROF.
 A. P. BALMFORD, DR N. MUNDY, DR R.
 JOHNSTONE AND DR R. ASHER
 M. W. F. 10 (Six lectures, beginning 24 Apr.)