DRAFT PROGRAMME

Neuroradiology & Functional Neuroanatomy:

Correlating Anatomical, Brain Imaging and Clinical Studies

(Organized by Prof Naidich, Prof Yeo and Prof Yousry)

Monday 15 April – Thursday 18 April 2013
Lecture Theatre, 33 Queen Square. London

Anatomical localisation of function is a fundamental principle in the neurosciences. This four day course will correlate gross anatomy with neuroimaging and functional MRI to illustrate normal neurological function, the alterations that attend disease, and the bases for the clinical features seen in patients.

Monday 15 April 2013

08.30 – 08.35	Welcome address and Overview	*Prof T. Yousry*
08.35 – 09.20	Imaging the developing brain	*Prof P. Griffiths*
09.20 – 10.05	Surface anatomy of the brain on MRI	*Prof T. Naidich*

Coffee - Tea Break (25 minutes)

10.30 – 11.30	Architectonic organisation of the telencephalon: insights from phylogeny and neuroimaging	*Prof A. Valavanis*
11.30 – 12.00	Pre- and postnatal development of the white matter	*Prof P. Griffiths*
12.00 – 12.45	Connectivity-based parcellation of the brain	*Dr S. Jbabdi*

Lunch (45 minutes)

13.45 – 15.15 "Hands on" Anatomy Laboratory
Anatomic demonstration: 30minutes, then specimen reviews & dissections
Prof M. Braun, Dr P. Johns, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry.

Break

15.45 – 16.30	Cytoarchitectonic organization of the cerebral cortex	*Prof K. Amunts*
16.30 – 17.15	Molecular organization of the cerebral cortex	*Prof K. Zilles*

17.15 **Welcome Reception**
Foyer, 33 Queen Square.

Tuesday 16 April 2013

09.00 – 09.45	Structure and function of descending motor cortex	*Prof R. Lemon*
09.45 – 10.30	Identification methods for the central region	*Prof T. Yousry*
Coffee – Tea Break (30 minutes)		
11.00 – 11.45	Spatial organisation of outputs from the motor cortex	*Prof R. Lemon*
11.45 – 12.30	MR of the basal ganglia	*Prof T. Naidich*
Lunch (1 hour)		
13.30 – 14.15	Basal ganglia: connectivity, chemical architecture and function	*Prof S. Davies*
14.15 – 15.00	Functional anatomy of cerebellum	*Prof C. Yeo*
Coffee – Tea Break (15 minutes)		
15.30 – 17.15	"Hands on" anatomy laboratory Anatomic demonstration: 30 minutes, then specimen reviews & dissections *Prof M. Braun, Dr P. Johns, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry.*	

Wednesday 17 April 2013

09.00 – 10.45	"Hands on" PACS workstations: Identification of brain structures *Prof M. Braun, Dr P. Johns, (Dr S. Shah tbc), Prof T Naidich, Prof T. Yousry.*	
Coffee – Tea Break (30 minutes)		
11.15 – 12.00	White matter tracts in the brainstem at 9.4T	*Prof T. Naidich*
12.00 – 12.45	Anatomy of the venous system	*Prof M Braun*
Lunch (45 minutes)		
13.30 – 14.15	Cytoarchitectonics of the cortex related to language	*Prof K. Amunts*
14.15 – 15.00	Chemoarchitectonics of the cortex related to language	*Prof K. Zilles*
Coffee – Tea Break (30 minutes)		
15.30– 16.15	The anatomic basis of DTI tractography/ Cortical anatomy of language	*Prof T. Naidich*
16.15 – 16.45	Perfusion territories and their links with feeding arteries	*Prof X. Golay*
16.45 – 17.30	DTI tractography of the language system	*Dr M. Catani*

Thursday 18 April 2013

09.00 – 10.45	"Hands on" PACS workstations: Identification of anatomic structures *Prof M. Braun, Dr P. Johns, (Dr S. Shah tbc), Prof. T Naidich, Prof T. Yousry.*	
Coffee – Tea Break (30 minutes)		
11.15 – 12.00	Introduction to the Neuroanatomy of Language	*Prof R. Wise*
12.00 – 12.45	Neural systems supporting Speech Comprehension	*Prof S. Scott*
Lunch (1 hour)		
13.45 – 14.30	Neural systems supporting Reading	*Dr J. Devlin*
14.30 – 15.15	Lesions impairing speech production	*Prof C. Price*
15.15 – 16.00	Reading impairment post stroke: diagnosis, Functional neuro-imaging and management	*Dr A. Leff*

End of Course – closing remarks from The Organisers: Prof Yousry, Prof Yeo, Prof Naidich

16.15 **Farewell Reception**
Foyer, 33 Queen Square.

Prof K Amunts
Institute of Neuroscience and Medicine
INM-1, Research Centre Juelich
GERMANY. 52425

Prof M Braun
Neuroradiology Department
University Hospital
Nancy 54000 FRANCE

Dr M Catani
NATBRAINLAB
Department of Forensic & Neurodevelopmental Sciences
Institute of Psychiatry PO50
King's College London
De Crespigny Park
LONDON. SE5 8AF

Prof S Davies
Department of Cell and Developmental Biology
University College London
Gower Street
LONDON. WC1 6BT

Dr J Devlin
Cognitive, Perceptual & Brain Sciences
University College London
LONDON. WC1N 1EH

Prof X Golay
Department of Brain Repair & Rehabilitation
UCL Institute of Neurology
Queen Square
LONDON. WC1N 3BG

Prof P Griffiths
Academic Unit of Radiology
University of Sheffield
Royal Hallamshire Hospital
SHEFFIELD. S10 2JF

Dr S Jbabdi
FMRIB Centre
University of Oxford
John Radcliffe Hospital
Oxford. OX3 9DU

Dr P Johns
St George's Healthcare NHS Trust &
St George's University of London
Department of Cellular Pathology
Blackshaw Road
LONDON. SW17 0QT

Dr A Leff
UCL Institute of Cognitive Neuroscience
17 Queen Square
LONDON. WC1N 3AR

Prof R N Lemon
UCL Institute of Neurology
Queen Square
LONDON. WC1N 3BG

Prof T Naidich
Mount Sinai School of Medicine
One Gustave Levy Place
NEW YORK. 10029-6574

Prof C J Price
Wellcome Trust Centre for Neuroimaging
12 Queen Square
LONDON. WC1N 3BG

Prof S Scott
UCL Institute of Cognitive Neuroscience
17 Queen Square
LONDON. WC1N 3AR

(Dr S Shah tbc)
Lysholm Department of Neuroradiology
The National Hospital for Neurology & Neurosurgery
LONDON. WC1N 3BG

Prof A Valavanis
University Hospital of Zurich
CH-8091 Zurich
SWITZERLAND

Prof R Wise
Division of Neuroscience & Mental Health
Hammersmith Hospital
Du Cane Road
LONDON. W12 0NN

Prof C Yeo
Department of Neuroscience, Physiology and Pharmacology
University College London
LONDON. WC1E 6BT

Prof T Yousry
Department of Brain Repair & Rehabilitation
UCL Institute of Neurology
Queen Square
LONDON. WC1N 3BG

Prof K Zilles
Institute of Neuroscience and Medicine
Research Centre Juelich
GERMANY. 52425