

Neuroradiology & Functional Neuroanatomy:

Correlating Anatomical, Brain Imaging and Clinical Studies

Organised by Prof T Yousry, Prof C Yeo and Prof T Naidich

4 – 7 July 2022

Lecture Theatre, 33 Queen Square, London

Preliminary programme



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 4 July 2022

09.30 – 09.35	Welcome address and Overview	<i>Prof T. Yousry</i>
09.35 – 10.20	Surface anatomy of the brain on MRI	<i>Prof T. Naidich</i>
10.20 – 11.05	Imaging the immature brain: 1. Developmental pathology in the fetus	<i>Prof P. Griffiths</i>
11.05 – 11.50	Break	
11.50 – 12.35	Imaging the immature brain: 2. Acquired pathology in the fetus	<i>Prof P. Griffiths</i>
12.35 – 13.20	Myeloarchitecture, receptorarchitecture und multimodality	<i>Prof K. Amunts</i>
13.20 – 14.20	Lunch Break	
14.20	Assembly at the 33 Queen Square Foyer for the PACS workshop	
14.30-16.00	“Hands on” PACS workstations: Identification of brain structures <i>Prof R Hamdi, Dr C. Hoskote, Dr S. Shah, Prof T. Naidich, Prof T. Yousry</i>	
16.15 – 17.00	Language areas: cyto- and receptorarchitecture	<i>Prof K. Amunts</i>
17.00 – 17.45	Motor Cortex and Descending Motor Pathways	<i>Prof R. Lemon</i>
17.45	<i>Welcome Reception</i> Queen Square	

Tuesday 5 July 2022

09.00 – 09.45	Methods of Identification of the central sulcus	<i>Prof T. Yousry</i>
09.45 – 10.30	MR of the basal ganglia	<i>Prof T. Naidich</i>
10.30 – 11.00	Break	
11.00 – 11.45	Microstructure Imaging Using MRI	<i>Prof N Weiskopf</i>
11.45 – 12.30	White matter tracts in the brainstem at 9.4T	<i>Prof T. Naidich</i>
12.30 – 13.15	Functional anatomy of the cerebellum	<i>Prof C. Yeo</i>
13.15 – 14.15	Lunch Break	
14.15	Assembly at the 33 Queen Square Foyer for the Anatomy workshop	
14.30 – 16.00	“Hands on” anatomy laboratory Anatomic demonstration: 30 minutes, then specimen reviews & dissections <i>Prof R Hamdi, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry</i>	
16.15 – 17.00	Embryology, anatomy and phylogeny of the anterior, hippocampal and great commissures	<i>Prof T. Naidich</i>
17.00 – 17.45	Association pathways	<i>Prof M Catani</i>

Wednesday 6 July 2022

09.00 – 10.30	“Hands on” anatomy laboratory Anatomic demonstration: 30 minutes, then specimen reviews & dissections <i>Prof R Hamdi, Prof M. Braun, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry.</i>	
10.30 – 11.00	Break	
11.00 – 11.45	Language networks and their myths	<i>Prof C. Price</i>
11.45 – 12.30	Effect of damage to the language network	<i>Prof C. Price</i>
12.30 – 13.45	Group photo and Lunch Break	
13.45 – 15.15	“Hands on” PACS workstations: Identification of brain structures <i>Prof R Hamdi, Prof M. Braun, Dr C. Hoskote, Prof T. Naidich, Dr S. Shah, Prof T. Yousry</i>	
15.15 – 15.45	Break	
15.45 – 16.30	<i>Toward a better understanding of Hydrocephalus</i>	<i>Prof T. Naidich</i>
16.30 – 17.00	<i>Insights into the anatomy and function of VR-spaces</i>	<i>Prof R. Carare</i>

17.45

Farewell Reception

Queen Square

Thursday 7 July 2022

09.00 – 09.30	Central Processing of Olfaction	<i>Prof T. Naidich</i>
09.30 – 10.15	Preoperative use of fMRI and tractography	<i>Prof T. Yousry</i>
10.15 – 10.45	Break	
10.45 – 11.30	Arteries and veins of the brain	<i>Prof M. Braun</i>
11.30 – 12.15	Gross anatomy of the hippocampal formation	<i>Prof T. Naidich</i>
12.15 – 13.00	Phylogenetic evolution of the brain in humanoids	<i>Prof M. Braun</i>
13.00 – 14.00	Lunch Break	
14.00 – 14.45	The Emotional Brain- Anatomic Bases	<i>Prof T. Naidich</i>
14.45 – 15.15	The adolescent brain	<i>Prof S. Blakemore</i>
15.15	<i>End of Course – closing remarks from the organisers: Prof T Naidich, Prof C Yeo and Prof T Yousry.</i>	

N.B. Covid restrictions will be adhered to and thus the programme will be updated accordingly.

FACULTY

Prof K Amunts (Germany)
Prof S Blakemore (United Kingdom)
Prof M Braun (France)
Prof R Carare (United Kingdom)
Prof M Catani (United Kingdom)
Prof P Griffiths (United Kingdom)
Prof R Hamdi (Egypt)
Dr C Hoskote (United Kingdom)
Prof R Lemon (United Kingdom)
Prof T Naidich (United States)
Prof C Price (United Kingdom)
Dr S Shah (United Kingdom)
Prof N Weiskopf (Germany)
Prof C Yeo (United Kingdom)
Prof T Yousry (United Kingdom)