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| **Neuroradiology & Functional Neuroanatomy:**  **Correlating Anatomical, Brain Imaging and Clinical Studies** |  |
| Organised by Prof T Yousry, Prof C Yeo and Prof T Naidich |
| **Monday 28 March – Thursday 31 March 2022** |
| Lecture Theatre, 33 Queen Square, London  Draft 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 28 March 2022**

09.00 – 09.05 Welcome address and Overview *Prof T. Yousry*

09.05 – 09.50 Surface anatomy of the brain on MRI *Prof T. Naidich*

09.50 – 10.30 Imaging the developing brain *Prof* *P. Griffiths*

10.30 – 11.00**Break**

11.00 – 11.45 Developmental and acquired brain pathology in the fetus *Prof* *P. Griffiths*

11.45 – 12.30 Phylogenetic evolution of the brain in humanoids *Prof M. Braun*

12.30 – 13.30**Lunch Break**

13.30 Assembly at the 33 Queen Square Foyer for the Anatomy workshop

14.00-15.30 “Hands on” anatomy laboratory

Anatomic demonstration: 30 minutes, then specimen reviews & dissections

*Prof M Braun,* *Prof T. Naidich, Prof C. Yeo, Prof T. Yousry*

15.30 – 16.00**Break**

16.00 – 16.45 Motor Cortex and Descending Motor Pathways *Prof R. Lemon*

16.45 – 17.30 Functional anatomy of the cerebellum *Prof C. Yeo*

17.30 – 18.00 Arteries and veins of the brain *Prof M Braun*

Welcome Reception

Queen Square

**Tuesday 29 March 2022**

09.00 – 09.45 Methods of Identification of the central sulcus *Prof T. Yousry*

09.45 – 10.30 MR of the basal ganglia *Prof T. Naidich*

10.30 – 11.00**Break**

11.00 – 11.45 Cytoarchitecture and brain mapping *Prof K. Amunts*

11.45 – 12.30 White matter tracts in the brainstem at 9.4T  *Prof T. Naidich*

12.30 – 13.15 Myeloarchitecture, receptorarchitecture und multimodality *Prof K. Amunts*

13.15 – 14.15**Lunch Break**

14.15 – 15.45 “Hands on” PACS workstations: Identification of brain structures

Prof M. Braun, *Dr C. Hoskote, Dr S. Shah, Prof T. Naidich,*

*Prof T. Yousry*

15.45 – 16.15 **Break**

16.15 – 16.45 Embryology, anatomy and phylogeny of the *Prof T. Naidich*  anterior, hippocampal and great commissures

16.45 – 17.30 Association pathways *Prof M Catani*

**Wednesday 30 March 2022**

09.00 – 10.30 “Hands on” anatomy laboratory

Anatomic demonstration: 30 minutes, then specimen reviews & dissections

*Prof M. Braun, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry.*

10.30 – 11.00**Break**

11.00 – 11.45 Language areas: cyto- and receptorarchitecture *Prof K. Amunts*

11.45 – 12.30 Language networks and their myths *Prof C Price*

12.30 – 13.45 **Group photo and Lunch** **Break**

13.45 – 15.15 “Hands on” PACS workstations: Identification of brain structures

*Prof M. Braun, Dr C. Hoskote, Prof T. Naidich, Dr S. Shah,*

*Prof T. Yousry*

15.15 – 15.45**Break**

15.45 – 16.30 Effect of damage to the language network *Prof C Price*

16.30 – 17.15 Preoperative use of fMRI and tractography *Prof T. Yousry*

17.15 – 17.45 Gross anatomy of the hippocampal formation *Prof T. Naidich*

17.45 Farewell Reception

Queen Square

**Thursday 31 March 2022**

09.00 – 09.45 MR imaging anatomy of the basal forebrain *Prof T. Naidich*

09.45 – 10.30 Functional anatomy of the corpus callosum *Prof T. Yousry*

10.30 – 11.00 **Break**

11.00 – 11.45 Microstructure Imaging Using MRI *Prof N Weiskopf*

11.45 – 12.30 Toward a better understanding of Hydrocephalus *Prof T. Naidich*

12.30 – 13.30**Lunch Break**

13.30 – 14.00 Insights into the anatomy and function of VR-spaces *Prof R. Weller*

14.00 – 14.45 The Emotional Brain- Anatomic Bases *Prof T. Naidich*

14.45 – 15.30 The adolescent brain *Prof S. Blakemore*

15.30 *End of Course – closing remarks from the organisers: Prof Yousry, Prof Yeo,*

*and* *Prof Naidich*

*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 M Catani (United Kingdom)*

*Prof P Griffiths (United Kingdom)*

*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 R Weller (United Kingdom)*

*Prof C Yeo (United Kingdom)*

*Prof T Yousry (United Kingdom)*