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 16 April 2018**

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

**Coffee/Tea Break**

11.00 – 11.45  Pre- and postnatal development of the white matter  
Prof P. Griffiths

11.45 – 12.30  Functional anatomy of the cerebellum  
Prof C. Yeo

**Lunch**

13.30 – 15.00  “Hands on” Anatomy Laboratory  
Anatomic demonstration: 30minutes, then specimen reviews & dissections  
Prof M. Braun, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry

**Coffee/Tea Break**

15.45 – 16.30  Cytoarchitectonic organization of the cerebral cortex  
Prof K. Amunts

16.30 – 17.15  Transmitter and receptor distributions in the cerebral cortex  
Prof K. Zilles

17.30  
**Welcome Reception**  
Foyer, 33 Queen Square
**Tuesday 17 April 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>09.00 – 09.45</td>
<td>Phylogenetic evolution of the brain in humanoids</td>
<td>Prof M. Braun</td>
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<tr>
<td>09.45 – 10.30</td>
<td>Methods of Identification of the central sulcus</td>
<td>Prof T. Yousry</td>
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<td><strong>Coffee/Tea Break</strong></td>
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<tr>
<td>11.00 – 11.45</td>
<td>Myeloarchitecture of the cerebral cortex and MRI</td>
<td>Prof K. Zilles</td>
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<tr>
<td>11.45 – 12.30</td>
<td>Association pathways</td>
<td>Dr M. Catani</td>
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<td>12.30 – 13.15</td>
<td>Motor Cortex and Descending Motor Pathways</td>
<td>Prof R. Lemon</td>
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<tr>
<td><strong>Lunch</strong></td>
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<tr>
<td>14.15 – 15.30</td>
<td>“Hands on” anatomy laboratory</td>
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<td>Anatomic demonstration: 30 minutes, then specimen reviews &amp; dissections</td>
<td>Prof M. Braun, Prof T. Naidich, Prof C. Yeo, Prof T. Yousry</td>
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<td>16.15 – 17.00</td>
<td>MR of the basal ganglia</td>
<td>Prof T. Naidich</td>
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<tr>
<td>17.00 – 17.45</td>
<td>Basal ganglia: connectivity, chemical architecture and function</td>
<td>Prof S. Davies</td>
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</tbody>
</table>
Wednesday 18 April 2018

09.00 – 10.30 "Hands on" PACS workstations: Identification of brain structures  
   Dr H. Chandrashekar, Prof T. Naidich, Dr S. Shah, Prof T. Yousry, Dr M. White

Coffee/Tea Break

11.00 – 11.30 Anatomy of the Nucleus basalis of Meynert and the pedunculopontine region: The cholinergic system and Alzheimer's disease  
   Prof K. Zilles

11.30 – 12.00 MR imaging anatomy of the basal forebrain  
   Prof T. Naidich

12.00 – 12.45 The cholinergic system in the basal ganglia and PD  
   Prof K. Zilles

Lunch

13.45 – 14.30 Insights into the anatomy and function of VR-spaces  
   Prof R. Weller

14.30 – 15.15 Toward a better understanding of Hydrocephalus  
   Prof T. Naidich

Coffee/Tea Break

15.45 – 16.30 Protein homeostasis as critical in neurodegenerative disease: genetic evidence  
   Prof J. Hardy

16.30 – 17.00 Deep brain stimulation of the cholinergic nuclei- PPN & NBM  
   Dr T. Foltynie

17.00 – 17.30 Clinical and imaging features of Huntington’s disease  
   Dr Rachael Scahill

17.30  
   Farewell Reception
   Foyer, 33 Queen Square
### Thursday 19 April 2018

<table>
<thead>
<tr>
<th>Time</th>
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<td><em>Dr H. Chandrashekar, Prof T. Naidich, Dr S. Shah, Prof T. Yousry, Dr M. White</em></td>
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<td>11.00 – 11.45</td>
<td>Cyto- and chemoarchitectonics of the entorhinal cortex</td>
<td><em>Prof K. Zilles</em></td>
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<td>11.45 – 12.30</td>
<td>Gross anatomy of the hippocampal formation</td>
<td><em>Prof T. Naidich</em></td>
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<td><strong>Lunch</strong></td>
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<tr>
<td>13.15 – 14.00</td>
<td>The adolescent brain</td>
<td><em>Prof S. Blakemore</em></td>
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<tr>
<td>14.00 – 14.45</td>
<td>Embryology, anatomy and phylogeny of the anterior, hippocampal and great commissures</td>
<td><em>Prof T. Naidich</em></td>
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<tr>
<td>14.45 – 15.30</td>
<td>Functional anatomy of the corpus callosum</td>
<td><em>Prof T. Yousry</em></td>
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*End of Course – closing remarks from The Organisers: Prof Yousry, Prof Yeo, Prof Naidich*

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<tr>
<td>15.30</td>
<td>Goodbye Drinks</td>
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</table>
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