



# Neuroanatomy for Imagers

**Thursday 3 February 2022**

**ONLINE - MS TEAMS**

The course has been designed for people working in imaging but with no neuroanatomical background.

It will be ideal for statisticians, physicists, chemists, radiographers, mathematicians, computer scientists, psychologists and research fellows/PhD students. Based upon 180 slides but of a highly interactive nature, the course aims to further imaging and neuroscience research by enhancing neuroanatomical knowledge among participants.

## WHAT DOES THE COURSE COVER?

- The basics: (Re)sources; definitions; finding your way; surroundings; cell types
- Tissue types: Grey / white matter; cerebrospinal fluid
- Blood supply and drainage
- Development
- Parts of the brain: Overview of structure and function; frontal / parietal / occipital / temporal lobes; limbic system; diencephalon; basal ganglia; brainstem and cerebellum
- Chemoarchitecture / neurotransmitters
- How to tell right from left; find brain landmarks yourself; brain atlases

Upon completion of this course, participants will be able to:

- Understand naming rationale & apply conventions correctly
- Understand the gross anatomy of the human CNS, its parts and major connective principles
- Describe the vascular supply of the brain, and CSF production and circulation
- Name the major functions of the different constituents / cell types of the brain
- Understand some basic developmental principles to help memorise brain structure
- Find help and devise ways to identify and name parts of the brain or define regions of interest (ROIs)

## WHO WILL TEACH ON THE COURSE?

**Alexander Hammers** Professor of Imaging & Neuroscience  
Head of PET Imaging Centre, School of Biomedical Engineering & Imaging Sciences, King's College London

## FIND OUT MORE

**Administrator** Jas Bains [teachingadmin-imaging@kcl.ac.uk](mailto:teachingadmin-imaging@kcl.ac.uk)

Further information, fees and application

<https://tinyurl.com/kingsneurofeb2022>