

**Programme 6 – Clinical Neuroscience – based at King’s College Hospital**

Reference: 2122/KCL/06

<b>Type of programme</b>  Research	
<b>Employing trust:</b>  King's College Hospital NHS Foundation Trust	<b>Academic placement based at:</b>  King’s College Hospital
<b>Brief outline of department</b>  The Department of Basic and Clinical Neuroscience at the Maurice Wohl Clinical Neuroscience Institute, King’s College London, includes internationally recognised clinician scientist leaders in epilepsy, movement disorders, brain injury, demyelinating disease and neurodegeneration, including Alzheimer’s disease and motor neuron disease (amyotrophic lateral sclerosis). Past projects include next generation sequencing projects in motor neuron disease, an RNA expression study in Alzheimer's disease, a study of pain in neurodegenerative diseases, neurophysiological studies of nerve transmission in models of epilepsy, and follow-up genetic studies of a genome-wide association study in Parkinson's Plus Syndromes.	
<b>Structure of academic project/what expected</b>  During the research attachment, trainees will be able to choose a supervisor from principal investigators (PIs) in the Maurice Wohl Clinical Neuroscience Institute. Areas of activity include Mendelian and complex genetics, molecular cell biology, cellular electrophysiology, neuroimaging, protein chemistry and proteomics, and bioinformatics in relation to neurodegenerative disorders (dementia, Parkinson's disease, motor neuron disorders). During the academic rotation, trainees are encouraged to attend research seminars and other activities organised by the Centre for Neurodegeneration Research, as well as the Clinical Grand Round at King’s College Hospital. The post-holder is expected to teach a Masterclass seminar on the MSc in Clinical Neuroscience, two hours a week, in conjunction with the F2A in Neurology. A list of principal investigators with brief outlines of their areas of research and likely projects is available at the start of the academic year. Trainees are encouraged to make contact with a range of PIs so that they can select a PI and project at least 3 months prior to starting the research rotation.  The associated F2 clinical attachments will be in Neurology (King’s College Hospital is the largest regional neuroscience centre in the country) and A&E.	
<b>Clinical commitments during academic placement</b>  The trainee is expected to attend the Neurology Grand Round, and to present a weekly seminar to the Clinical Neurosciences MSc students. Teaching on the MSc is an important component of the post.	

***Departmental academic teaching programme (if applicable)***

There is a programme of research presentations from the department, a programme of visiting lecturers, and weekly journal clubs and seminars in various research topics. The post-holder is also welcome to attend lectures and seminars from the MSc in Neuroscience, MSc in Clinical Neuroscience, and MSc in Neuroimaging.

***Academic Lead***

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