

Fully funded 4-year PhD studentship at the Centre for Developmental Neurobiology

Title	Neuronal activity in circuit development
To start	1 st October 2020
Award(s)	Fully funded 4-year PhD studentship
Project	<p>Mutations in synaptic genes are strongly associated with neurodevelopmental disorders. This project will focus on the role of NMDA receptors, many subunits of which have been implicated in autism and epilepsy.</p> <p>Using a combination of conditional transgenic mouse lines and circuit-targeted <i>in vivo</i> delivery of viral / expression constructs, different NMDA receptor subunits will be manipulated in specific circuits. The impact on functional and structural circuit development, as well as neuronal excitability, will be addressed using electrophysiology, functional imaging, connectivity mapping and 3D imaging of cleared brain samples. The student will acquire expertise in many cutting edge techniques, and become part of the Centre for Developmental Neurobiology, a world leading department for developmental neuroscience, as well as an exceptionally supportive and collaborative environment.</p>
Supervisors	Dr Laura Andrae
Entry requirements	Standard PhD entry requirements: Applicants should have a Bachelors degree with 2:1 honours (or Overseas equivalent). A 2:2 degree may be considered only where applicants also offer a Masters with Merit.
Award types and eligibility	<p>The fully funded studentships cover the following:</p> <ul style="list-style-type: none"> • Course fees (Home/EU rate) • Stipend (approx. £21,450 per year) • Contribution towards research costs, training and conference attendance.
Further information	<p>Centre for Developmental Neurobiology: https://devneuro.org/cdn/ Centre for Neurodevelopmental Disorders: https://devneuro.org/cnnd/ Andrae lab webpage: https://devneuro.org/cdn/group-overview.php?groupID=84</p>
How to apply	<p>Please use the copy shown in the example below and make the slight edits necessary for your project, e.g. the keyword in the research degrees search should be the department the studentship will be based in</p> <p>Applicants must complete and submit an online admissions application, via the admissions portal by midnight (23:59 GMT), 7th February 2020.</p> <p>On the 'Choosing a programme' page, please select 'Research degrees' and enter the keyword 'Neurobiology', then select 'MRC Centre for Developmental Neurobiology Research MPhil/PhD (Full-time)'. In your application, you will be asked to include:</p> <ul style="list-style-type: none"> • Academic Transcripts – where applicable, academic transcripts must be submitted with the online admissions application • Details of your qualifications (you will need to attach copies) • Details of previous employment

Fully funded 4-year PhD studentship at the Centre for Developmental Neurobiology

	<ul style="list-style-type: none">• A personal statement describing your interests and why you wish to apply for this project. Please include this as an attachment rather than using the text box.• Academic References –admission applications require 1 reference, but 2 references are preferable. To add an additional reference, once you have submitted your application, please message your 2nd referee's details to admission via King's Apply Portal. <p>In the Funding section, please tick box 5 and include the following reference: LA-CDN-2020</p> <p>Please note there is no need to complete the Research Proposal section in your application as the project has already been set.</p> <p>You are welcome to email laura.andreae@kcl.ac.uk (supervisor) for more information regarding the project and studentship.</p> <p>If you have any queries regarding the application process, please contact Eve Berry, Postgraduate Research Administrative Assistant.</p> <p>Only shortlisted applicants will be contacted.</p>
Closing Date	7th February 2020
Interviews	Late February 2020