

# Four year MRes/PhD programme in Developmental Neurobiology

## 2012 intake

Outstanding research training will be provided at the internationally recognised MRC Centre for Developmental Neurobiology, utilising state-of-the-art techniques in various model systems. Applications are welcomed from a wide range of academic backgrounds; from molecular and cellular biology, embryology to developmental biology, electrophysiology and computational neuroscience to the physical and mathematical sciences.

- Year 1 - MRes: three lab rotations, a taught course, seminars and workshops run by leading experts
- Year 2-4 - PhD: an original research project, transferable skills, seminars and conferences

### Projects are available with the following group leaders:

<b>Laura Andrae</b>	Synaptogenesis and neurodevelopmental disorders
<b>Esther Bell</b>	Molecular mechanisms of neural induction
<b>Eric Blanc</b>	Co-expression in <i>Drosophila melanogaster</i>
<b>Juan Burrone</b>	Synaptic physiology and plasticity
<b>QueeLim Ch'ng</b>	Neuroendocrine regulation of <i>C. elegans</i> physiology
<b>David Chambers</b>	Patterning and specification of cranial motor neurons
<b>Jon Clarke</b>	Morphogenesis and neurogenesis in the zebrafish CNS
<b>Uwe Drescher</b>	Guidance and synaptogenesis in the vertebrate visual system
<b>Manolis Fanto</b>	Neuron-glia interactions in neurodegeneration in <i>Drosophila</i>
<b>Caroline Formstone</b>	Neuron migration and Planar Cell Polarity signalling
<b>Phillip Gordon-Weeks</b>	Cytoskeletal dynamics and growth cone pathfinding
<b>Anthony Graham</b>	The neural crest and neurogenic placodes
<b>Matthew Grubb</b>	Activity-dependent maturation in the olfactory bulb
<b>Sarah Guthrie</b>	Axon guidance of cranial motor neurons
<b>Robert Hindges</b>	Stem cells and connectivity in the vertebrate visual system
<b>Corinne Houart</b>	Signalling centres in control of forebrain complexity
<b>Tara Keck</b>	Mechanisms of structural plasticity
<b>Clemens Kiecker</b>	Specification and neurogenesis in the vertebrate forebrain
<b>Camilla Larsen</b>	Patterning of sub-regions in the <i>drosophila</i> brain
<b>Ivo Lieberam</b>	ES cell-based models of neuromuscular circuits
<b>Andrew Lumsden</b>	Molecular control of neural patterning
<b>Ivor Mason</b>	Signalling mechanisms in brain development
<b>Martin Meyer</b>	Development and function of the zebrafish visual system
<b>Setsuko Sahara</b>	Controls of brain size and neural circuits during development
<b>Guy Tear</b>	Molecular mechanisms of axon guidance in <i>Drosophila</i>
<b>Ian Thompson</b>	Development of the mammalian visual system
<b>Darren Williams</b>	Dendrite development in <i>Drosophila</i>
<b>Richard Wingate</b>	Neuron migration and evolution of the cerebellum

For more details go to [www.kcl.ac.uk/depsta/biomedical/mrc/phd.php](http://www.kcl.ac.uk/depsta/biomedical/mrc/phd.php)

Candidates should have or expect at least an upper second class degree. Closing date for applications is 6th January 2012. To apply send a full CV, the names and contact details of two academic referees and personal statement of your interest in this programme to Ms Stefania Boscolo, Postgraduate Administrator, MRC Centre for Developmental Neurobiology, New Hunt's House, King's College London, Guy's Campus, London SE1 1UL.

Queries should be emailed to [stefania.boscolo@kcl.ac.uk](mailto:stefania.boscolo@kcl.ac.uk)

MRC eligibility criteria can be found at [www.mrc.ac.uk/Fundingopportunities/Applicanthandbook/Studentships/Eligibility/index.htm](http://www.mrc.ac.uk/Fundingopportunities/Applicanthandbook/Studentships/Eligibility/index.htm)