Symposium 25: Environment and synaptic function

In association with The Physiological Society

Theme: The neurobiology of stress

Wednesday 12th April, 9:00 – 10:40

Environmental stressors have very potent effects both on synaptic function and on cognitive processes. Recently we have been able to recognise how both stressful events and glucocorticoid hormones can modify glutamate receptor function and synaptic plasticity, while novel molecular studies have begun to show how both genomic and non-genomic responses can modify synaptic chemistry and structure. This symposium goes from the most basic dynamic control of glucocorticoid responsive genes (Dr Conway-Campbell) through glutamate receptor trafficking (Dr Gary Whitehead) and into mental illness Dr Joung-Hun Kim and finally into aspect of brain ageing.

Chair: Professor Kei Cho (University of Bristol)

Speaker 1: Dr Becky Conway-Campbell (University of Bristol)

'Importance of glucocorticoid dynamics for synaptic function'

Speaker 2: Dr Garry Whitehead (University of Bristol)

'Stress, glutamate receptor trafficking and synaptic plasticity'

Speaker 3: Dr Joung-Hun Kim (Pohang University of Science and Technology, Korea)

'Stress, the Amygdala and mental illness'

Speaker 4: Professor Michael Rowan (Trinity College, Dublin)

'Stress and brain ageing'