
MANJU KURIAN

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PARTICIPANT AT:

CONNECTING THE GROWING BRAIN UNDERSTANDING NEUROPAEDIATRIC DISEASES THROUGH SYNAPTIC COMMUNICATION

**November, 26th-27th, 2015, Barcelona**

Manju Kurian, Paediatric Neurologist, Department of Neurology, Movement Disorders Unit, Great Ormond Street Hospital, London, UK

Dr Manju Kurian is a Wellcome Trust Intermediate Clinical Fellow at UCL-Institute of Child Health. Her research encompasses gene discovery, molecular neuroscience (including the use of patient-derived induced pluripotent cell models) and novel therapeutics for childhood neurological disorders. She is an honorary Consultant Paediatric Neurologist at Great Ormond Street Hospital with expertise in childhood movement disorders.

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ABSTRACT

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Synaptic Determinants of Movement Disorders in Children

Childhood movement disorders comprise a heterogenous group of conditions, including both hyperkinetic and hypokinetic phenotypes. A number of mechanisms underpin the pathophysiological basis of movement disorders, and include a number of proteins at the synaptic interface of networks within the basal ganglia and its connections to the thalamus, cortex and cerebellum. Determining the genetic basis of childhood movement disorders provides great insight into important mechanisms involved in motor control. In this talk, I will focus on childhood movement disorders and discuss how elucidating the genetic basis allows us to understand synaptic receptors, membrane channels/transporters and proteins involved in vesicle formation and recycling.

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