

RICHARD MOONEY

CV

SPEAKER AT:

HOW MIND EMERGES FROM BRAIN: A VIEW INTO THE FUTURE

**July, 12th-13th, 2012, Barcelona****Richard Mooney**, Ph.D. [Duke University](#), North Carolina, USA

Richard Mooney Ph.D., is the George Barth Geller Professor of Neurobiology at the Duke University School of Medicine. His broad research goal is to understand the neural mechanisms by which sensory experience guides behavioral learning. To achieve this goal, the Mooney lab explores the structure and function of sensorimotor circuits important to learned vocal communication in songbirds and auditory and vocal motor systems in the mouse. In the course of these explorations, his research group has developed a wide range of technical expertise using both avian and mouse models, including in vivo multiphoton neuronal imaging, chronic recording of neural activity in freely behaving animals, in vivo and in vitro intracellular recordings from identified neurons, and manipulation of neuronal activity using either electrical microstimulation or optogenetic methods. His group also has extensive experience with viral transgenic methods and with behavioral analysis, especially in quantifying acoustic features of vocalizations. Together, these methods provide a broad technical approach to understanding how the brain harnesses sensory information to adaptively modify behavior.

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