Dexterity of the human hand: Neural and biomechanical features in health and movement disorders

Dr Michelle Marneweck will cover her latest research on motor control processes that allow humans to interact dexterously with their environment, as well as the effects of damage to such processes. She has studied these processes from multimodal perspectives that bridge biomechanics, neurophysiology, and neuroimaging.

This seminar will discuss a biomarker of dexterity in children with cerebral palsy using a combination of TMS, EMG, and behavioural measures of hand function.

Dr Marneweck will also delve into dexterity in health. She will focus on the biomechanics and neural circuitry of a key component of dexterous manipulation, which involves matching forces and torques to key properties of objects.

View on Zoom at monash.zoom.us/j/611675966
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