

## Motor Control Signatures of Dystonia

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The dystonias are a varied set of movement disorders in which a primary abnormality of postural control prevails. In this talk I will overview three subtypes: task-specific dystonia, cervical dystonia and a genetic generalised dystonia (DYT-TOR1A). I will discuss the features of the abnormal skill network which appear to underwrite task-specific dystonia, review how the pathophysiology of cervical dystonia may relate to a brainstem neural integrator and present new work examining the neural control of holding in a generalised genetic dystonia. To date the treatment of dystonia has largely been empirical as we lack clear biomarkers. By viewing each dystonia subtype through a distinct lens I will argue that we can move to a more scientific based exploration of therapeutic interventions.

