



TAKING THE CEREBELLUM SERIOUSLY: EXPLORING THE NEW FRONTIER WITH ON-SCALP MAGNETOENCEPHALOG APHY

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Abstract


Despite having almost 80% of the neurons of the brain and being densely connected with both sub-cortical and cortical structures, the cerebellum has attracted little attention in cognitive neuroscience.

I will here present several of my studies highlighting that cerebellar activity can be measured using magnetoencephalography, and that the cerebellum has an important role in building sensory expectations that can inform motor behaviour. I will also present an ongoing study suggesting that cerebellum may also be implicated in Parkinson's disease. Following these studies, I will present my upcoming 4-year project where the objective is to make apparent that the understudied cerebellum is fully integrated in cognition together with sub-cortical structures. I propose that dysfunction of the cerebellum may underlie some of the symptoms we see in neurodegenerative diseases such as Parkinson's disease and essential tremor.

All in all, I hope to convince you that we cannot ignore the cerebellum any longer.



Hosted by: **Jordi Costa**
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Faculty of Psychology 
Campus Mundet | Aula Sala de Graus