



ISLE-NCCR-B&C

Joint Colloquium



TUESDAY, March 7, 2023 | 12:15-13:15

Sonia Kotz

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« Cortico-subcortico-cortical circuitry and the timing of action, perception and cognition »

Campus Biotech, Room H8-01-D
9, chemin des Mines 1202 Genève
& on Zoom :

<https://unige.zoom.us/j/62694444617?pwd=T2wzQWNMMk9DTEVXZFhwRW94RXEwQT09>

Meeting ID: 626 9444 4617

Passcode: 617330



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Abstract : While the role of forward models that predict the sensory consequences of an action highlight the role of the cerebellum, less is known about its contributions to the perception of complex dynamic signals. Considering temporo-cerebellar-thalamo- cortical circuitry and its respective connectivity patterns, cerebellar contributions should be further explored across domains as they (i) simulate cortical information processing and (ii) compare expected and actual outcomes of stimulations, leading to adaptation in cortical target areas. I will discuss frameworks and present empirical evidence encompassing action, perception, and cognition in support of this idea.