

Séminaire NEURO : Sotaro Shimada

07 Juillet 2015, 13:30 – 15:00

Titre du séminaire et orateur

Neural basis of the time window for subjective motor-auditory integration.

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Date et lieu

Mardi 7 juillet 2015, 13h30.

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Abstract

Temporal contiguity between an action and its auditory feedback is crucial to perceive self-generated sound. However, neural mechanism for motor-auditory temporal integration has remained largely unknown. Here, we employed four experiments to uncover specific event-related potentials (ERPs) elicited by delayed auditory feedback of self-generated action with an oddball experimental paradigm. Our results clearly demonstrate that different neural mechanisms are employed for the processing of temporally-deviant and pitch-deviant auditory feedbacks and that the time window for subjective motor-auditory integration is likely about 200 ms, manifested in these auditory ERP components.