



Systems Neurophysiology Seminar/

Ochanomizu Neuroscience Association Seminar

Organization of internal copy neural circuits for skilled forelimb movement

演者

Hermina Nedeleescu, M. S., Ph. D.

Research associate, Salk Institute

日時

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会場

M&D タワー 15階 共用セミナー室5

講演要旨

Clarifying the organization and functional logic of internal copy circuits will advance our understanding of how motor systems control skilled movement, and will provide insight into how excitatory and inhibitory copy circuits convey rapid feedback information throughout the nervous system. In addition, the cerebellum has a well-established role in motor coordination, and damage to cerebellar circuits results in motor dysfunction. Clarifying the fine-grained organization of cerebellar pathways will provide insight into the neural basis of these motor disorders, and should provide a more solid foundation for better diagnosis and treatment.

References:

Nedeleescu H, Chowdhury TG, Wable GS, Arbuthnott G, Aoki C. Cerebellar subdivisions differ in exercise-induced plasticity of noradrenergic axons and in their association with resilience to activity-based anorexia. *Brain Struct Funct.* 2017 Jan;222(1):317-339.

Nedeleescu H, Abdelhack M. Comparative morphology of dendritic arbors in populations of Purkinje cells in mouse sulcus and apex. *Neural Plast.* 2013;2013:948587.

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連絡先：システム神経生理学分野 杉原 泉 内線 5152/5153