



医歯学総合研究科大学院特別講義／お茶の水ニューロサイエンスセミナー
(医歯学先端研究特論) (生命理工学先端研究特論)
(医歯理工先端研究特論)

Monoamines and consolidation in cerebellum-dependent learning

演者

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日時

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会場

共用講義室 2 M&D タワー2 階

講演要旨

Cerebellum-dependent motor learning is thought to depend upon an association between mossy/parallel fibre and climbing fibre inputs at the cortical Purkinje cell. Theoretical and empirical evidence suggests that a third, consolidation signal from monoaminergic afferents may also be important.

Reversible inactivations reveal that cerebellum-dependent, nictitating membrane (NM) blink classical conditioning in the rabbit depends upon an intracortical consolidation mechanism. The selective noradrenergic $\beta 1$ agonist atenolol prevents cortical consolidation and anatomical studies of cortical noradrenergic afferents suggest that they may distribute to a single microzone.

Noradrenaline provides an important consolidation signal for cerebellum-dependent learning, Noradrenergic afferents may target limited cortical territories and the essential mechanism involves $\beta 1$ -adrenoceptors on Purkinje cells.

多数の皆様の御来聴をお願い申し上げます。

連絡先：システム神経生理学分野・杉原 泉 内線 5152/5153