A retenir

Our results demonstrate a new functional role for synaptic short-term plasticity; namely, supplying a robust source of nonlinearity for networks operating in the presence of strong spatiotemporal irregularity, as local circuits in the cortex appear to be.

Balance d'excitation et d'inhibition et plasticité synaptique: a court terme: un nouveau paradigme pour la mémoire du travail

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Perspectives

The extension of this novel theoretical framework to discrete items WM and related learning issues, the effects of non-random synaptic connectivity and the experimental search for signatures of STP-dependent multi-stability in patterns of neuronal activity during WM tasks.

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