



Neuromodulation: From Theories to Therapies

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Message from the Guest Editor

Dear Colleagues,

Neuromodulation is the alteration of neuronal and synaptic properties by neurons, neuronal substances, or via the targeted delivery of an electromagnetic or chemical stimulus, etc., to specific neurological sites in the body to normalize or modulate nervous tissue function. Neuromodulation, whether electrical or magnetic, at the brain- or at the spinal cord-level, employs the body's natural biological response by stimulating nerve cell activity that can influence populations of nerves by releasing transmitters or other chemical messengers that can modulate the excitability and firing patterns of neural circuits. The end effect is a "normalization" and/or "modulation" of neural network function from its perturbed state. Neuromodulation is an increasingly accepted treatment for neurological and psychiatric disorders, and its significance in the field of neurorehabilitation is growing and evolving.

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Guest Editor





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Message from the Editor-in-Chief

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