

IGSN - SYMPOSIUM

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Deeper underground: opportunities and challenges of noninvasive or minimally invasive deep brain stimulation techniques

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Minimally-invasive deep brain stimulation using nanomaterials

The field of neuromodulation is active, growing and innovative. It has revolutionized the treatment of various neurologic and psychiatric disorders within the past three decades. In particular, neural macrocircuitries that play a role in various disorders are being targeted by experimental neuromodulatory approaches. Here, we aim to provide an update on latest developments in the field of nanomaterials-mediated neuromodulation that could be used widely in translational models to enhance our knowledge of the brain's microcircuitries in normal and disease states. As with the development of deep brain stimulation for patients with Parkinson's disease for example, this new knowledge could spur the progress of future therapies for patients with brain disorders.

Host:

VUK MARKOVIC

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