Special Issue

Advances in Restorative Neurotherapeutic Technologies

Message from the Guest Editors

From Ramon y Cajal and Golgi's histological techniques to single-cell RNA sequencing, technological innovations have long driven progress in the neurosciences. We are entering an era in which new technologies have the power not only to help us understand the inner workings of the brain or to treat the symptoms of the diseases that plague it but also to restore function to those affected by disorders of the central nervous system. From individualized network-based neuromodulatory therapies for neurologic and psychiatric disease to the brain–computer interfaces to restore movement in quadriplegics and to restore vision for the blind, cognitive prosthetics for dementia and learning disabilities, seizure-detecting responsive neurostimulators, augmented reality headsets to help neurosurgeons locate brain tumors and wearable electric field-generating devices to help limit their growth and many more. This Special Issue explores some of the technologies, including the potential not only to restore but to augment nervous system function and improve the quality of life for patients who have exhausted traditional therapies.

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