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Bridging the Gap between Basic and Clinical Neuroscience: How Behavioral, Molecular and Computational Research Can Promote Care of Mental and Neurological Disorders

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Message from the Guest Editors

The etiology of mental and neurological disorders including, for instance, syndromes from the affective or schizophrenic spectra, dementias, movement disturbances, and inflammatory diseases of the CNS remains largely unknown in spite of decades of progress in behavioral, genetic, biochemical, immunological, and computational research. Ultra-specialization within these various subfields of neuroscience has created remarkable knowledge and skills but also increasingly challenged multidisciplinary integration. Even when causality seems to be evident, such as in post-stroke aphasia, the neurocognitive mechanisms of recovery and rehabilitation strategies often remain controversial among experts. At the same time, pioneering technologies such as computational modeling have found widespread use in the treatment of mental and neurological disorders. The present Special Issue seeks to channel innovative advances at the intersection between established fields of neuroscience into actual or potential applications that attempt to improve patient care in clinical practice.