

Michael Merzenich - Brain Plasticity-Based Therapeutics

Abstract: With a growing understanding of the fundamental nature of neuro-plasticity, we have been applying it with increasing effectiveness, in clinical populations. A general therapeutic goal, for more advanced applications, is to improve or restore both neurological and behavioral function and integrity via targeted forms of intensive training. With a focus on the broadly reversible nature of plasticity processes, we shall review the state of development and validation of the application of these tools applied to slow the progression and delay the onset of neuropathological disorders, and contributing to the recovery of patients suffering from a broad variety of psychiatric and neurological disorders.