

Special Issue

Human Brain Responses and Functional Brain Networks across the Lifespan

Message from the Guest Editors

Life-long adaptation of human brain networks allows for responding to life-period-specific challenges. This enables increasingly complex cognitive functions during development and compensational processes during aging. Enhanced neuroplasticity occurs during development or is triggered by life-changing events and may have a sustained impact on the later stages of life. Recent studies increasingly mirror how brain development and function are influenced by social experiences. Human brain development further relates to risks of emerging mental health disorders or accelerated mental aging. These multifold aspects of adaptations in human brain networks through life can be characterized by event-related and oscillatory EEG or MEG measures. Their high temporal resolution specifically enables determining age-related changes in the temporal coordination of multiple neural activation patterns and their integration within functional neural networks. The aim of this Special Issue is to bring together a broad range of EEG/MEG studies to better understand the mechanisms and functions of brain changes through the lifespan.

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