

Special Issue

Cognition and the Hearing Brain: Neural Plasticity, Perception and Rehabilitation

Message from the Guest Editors

Hearing loss affects over 1.5 billion people worldwide and has emerged as a significant modifiable risk factor for cognitive decline. Yet the neural mechanisms linking auditory and cognitive function remain incompletely understood. This Special Issue brings together research on auditory neuroscience, cognitive neuroscience, and hearing rehabilitation to advance understanding of how the brain processes sound, adapts to hearing loss, and responds to intervention. We invite original research, reviews, and theoretical perspectives addressing topics including the cognitive consequences of hearing loss; neural plasticity following auditory deprivation and restoration; speech and music perception in listeners with normal and impaired hearing; cognitive predictors of cochlear implant outcomes; auditory training and cognitive rehabilitation approaches; and neuroimaging investigations of the hearing brain. Submissions using behavioral, electrophysiological, or neuroimaging methods, and those bridging basic science and clinical applications, are welcome. This collection fosters interdisciplinary dialog to accelerate translating neuroscience findings into improved hearing loss care.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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