



# Auditory Temporal Processing and its Disorders

By Jos J. Eggermont

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## Auditory Temporal Processing and its Disorders By Jos J. Eggermont

'Auditory temporal processing' determines our understanding of speech, our appreciation of music, our ability to localize a sound source, and even to listen to a person in a noisy crowd.

Sound is dynamic and as such has temporal and spectral content. In disorders such as auditory neuropathy and MS, problems can occur with these temporal representations of sound, leading to a mismatch between auditory sensitivity and speech discrimination. In dyslexia, specific language impairment, and auditory processing disorders, similar problems occur early in life and set up additional cognitive speech processing problems. It has also been found that in disorders such as autism, schizophrenia and epilepsy, temporal processing deficits can occur.

This book reviews comprehensively the mechanisms for temporal processing in the auditory system, looking at how these underlie specific clinical disorders, with implications for their treatment. Written by a prolific researcher in auditory neuroscience, this book is valuable for auditory neuroscientists, audiologists, neurologists, and speech language pathologists.

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### Editorial Review

#### Review

I strongly recommend this book to everyone working on the auditory system and related disorders Sabine Joseph, University College London, in 'Perception', Vol. 44 (12), 2015

#### About the Author

Jos J. Eggermont, *Professor Emeritus of Psychology and Physiology & Pharmacology, Department of Psychology, University of Calgary, Canada*

Jos Eggermont was born in The Netherlands, and was educated at Leiden University (MSc in 1967, PhD in 1972, both in Physics). In 1978 he became Professor in experimental physics at Nijmegen University. In 1986 he became Professor at the University of Calgary, Canada in the Department of Psychology. In 1997 he was named Campbell McLaurin Chair for Hearing Deficiencies and joined the Department of Physiology and Pharmacology. In 1989 he was elected in the Royal Netherlands Academy of Arts and Sciences, in 1998 he was elected Fellow of the Acoustical Society of America, and in 2014 he was elected Fellow of the Royal Society of Canada.

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