

City University of Hong Kong
Department of Biomedical Sciences
presents a seminar



“Functional Organization and Plasticity of the Auditory System in Humans and Nonhuman Primates”

by

Prof. Josef Rauschecker
Professor, Department of Physiology and Biophysics
Georgetown Institute for Cognitive and Computational Sciences
Director, Laboratory for Integrative Neuroscience and Cognition

Date : 5 Oct 2016

Time: 11.30am to 13.00pm

Venue: Room 3500, 3/F, Academic 2 Building, CityU

About the speaker

Dr. Rauschecker's research interests are functional organization and plasticity in the central nervous system. His research aims to explicate the brain's means of implementation for auditory perception and language. His laboratory is one of only a handful in the country engaged in the neurophysiology of auditory cortex in nonhuman primates. In parallel studies, he is using functional magnetic resonance imaging (fMRI) in humans for the study of the neural bases of language, music and other higher auditory processing. This work should lead to a deeper understanding of brain function in autism, dyslexia, aphasia, agnosia and tinnitus, and more intelligently designed hearing aids and neural prostheses. In this context his laboratory is also interested in the effects of sensory deprivation during brain development, relating to the question of how the brain of individuals with early blindness or deafness gets reorganized. These studies of brain plasticity have relevance for the understanding of degenerative diseases of the brain, such as Alzheimer's disease.

Contact

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All are welcome