

The 123rd RCKC Colloquium

Rhythms and the brain :

Studies of neural dynamics of beat perception



Speaker **Dr. John R. Iversen, Ph.D.**

University of California, San Diego
Swartz Center for Computational Neuroscience
Institute for Neural Computation

Date June 22, 2015 (Mon.) 13:30 - 14:30

Venue Meeting room for Joint Research 1
on the 3rd floor of ULIS bldg. in Kasuga Area

Abstract

Rhythm and dance are a fundamental forms of human interaction. The ability to perceive rhythmic regularity and organize our movements around it is quite rare in the animal world, and provides a rich area in which to ask questions about the origins of music, and how our perceptions of the world are actively shaped in our brain. Music has turned out to be a powerful tool to study fundamental brain processes, such as how our perceptions of the world are jointly shaped by external stimuli and internal interpretation.

In this talk I will present an overview of several studies that have examined different aspects of rhythm perception and production in humans, including the impact of culture on rhythm perception, comparison of rhythm perception in hearing and Deaf individuals, and the neurobiology of rhythm perception, leading to the ASAP (Action stimulation for auditory perception) hypothesis positing the importance of the motor system for auditory perception. We will also discuss the relevance of this work for education and health.

※The seminar will be presented in English.

Anyone is welcome. **No charge to participate and No reservation is needed.**

Research Center for Knowledge Communities, University of Tsukuba

<http://www.kc.tsukuba.ac.jp/index.html>

Email: kc-office@ml.cc.tsukuba.ac.jp Tel: 029-859-1524 (Ext. : 81524)