

PARTICIPANT FORM for the SUMMER SCHOOL

Constructivism and Enaction

A new paradigm for Cognitive Science

FIRSTNAME : Rüdiger

NAME : Land



I. – SITUATION

Status : University teacher Research scientist Thesis student Post-doc Other :

University/ Laboratory : Department of Neurophysiology and Pathophysiology, University Medical Center
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Website labo/perso : <http://www.uke.uni-hamburg.de/institute/neurophysiologie>

Special information(s) (article, scientific responsibility, participation to research projects, other...) :

III. – RESEARCH THEME

Currently, I am doing experiments with multi-electrodes in the visual cortex of mice, investigating neural oscillation and synchronization phenomena related to visual stimulation. I am interested in the differences of neural responses to visual stimuli between wild-type mice and genetically altered mice, which exhibit increased neural excitability, resulting in epilepsy-like seizures. Further, in behavioral experiments I record from chronically implanted electrodes in V1 of these mice, while they are performing a visual discrimination task.

Key words: Neurophysiology, animal behaviour, behaviourism, minimalism, comparative neuroanatomy

III. – VIDEOS AND EXPERIMENTAL MATERIAL

Moments of relaxation might be the occasion to share and show original scientific video documents (not too long) or experimental material (which could be used by all the participants). A video party and an experimental demonstration session have been planned. Could you indicate video or experimental material you would like to present.

Videos :

Experimental demonstration :