

Research Funding by the Hamburg Ministry of Science and Research:

“Mechanisms of excitation and inhibition in the brain: physiology and pathophysiology of synapses, neural networks and cognitive functions”

Coordinator: Matthias Kneussel, ZMNH

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Projects at ZMNH

ANALYSIS OF THE NEURONAL TRANSLATOME IN A MOUSE MODEL OF AUTISM

Hans-Jürgen Kreienkamp, UKE Institute of Human Genetics and *Jan Broder Engler*, ZMNH Institute of Neuroimmunology and Multiple Sclerosis

DOUBLE-INNERVATED DENDRITIC SPINES WITH EXCITATORY AND INHIBITORY INPUT

Prof. Dr. Matthias Kneussel and *Dr. Torben Hausrat*, ZMNH Institute of Molecular Neurogenetics

INTERNEURONS – THE CYTOSKELETON OF EXCITATORY AND INHIBITORY SYNAPSES

Dr. Marina Mikhaylova, ZMNH Research Group Neuronal Protein Transport and *Kay Grünewald*, HPI and CSSB, Research Group Structural Cell Biology of Viruses, Hamburg

DENDRITIC COMPUTING UNITS IN THE BALANCE OF EXCITATION AND INHIBITION

Dr. Christine Gee and *Prof. Dr. Thomas Oertner*, ZMNH Institute of Synaptic Physiology

THE ADJUSTMENT OF THE BALANCE BETWEEN EXCITATION AND INHIBITION IN DEVELOPING CORTICAL NETWORKS

Prof. Dr. Ileana Hanganu-Opatz, ZMNH Research Group Developmental Neurophysiology