



Clinical Electrophysiology of the Somatosensory Cortex: A Combined Study Using Electrocorticography, Scalp-EEG, and Magnetoencephalography

Christoph Baumgartner

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The functional anatomy of human somatosensory cortex is of both scientific and clinical interest. Scientifically, it provides insights in information processing in the human brain. Clinically, it helps to avoid neurological deficits by sparing essential brain regions during neurosurgical procedures adjacent to central fissure. In the present study the functional organization of the human somatosensory cortex was investigated with electrophysiological techniques using a combined approach of cortical stimulations and somatosensory evoked responses on electrocorticography, scalp-EEG, and magnetoencephalography. The spatiotemporal structure of the evoked response was studied with biophysical modeling techniques which allowed identification of the three-dimensional intracerebral location, time activity, and interaction of the neuronal sources activated following peripheral somatosensory stimulation. Furthermore, the somatotopic organization of hand and lip somatosensory cortex was investigated. The relative value of invasive (cortical stimulations and electrocorticography) and non-invasive (scalp-EEG and magnetoencephalography) was assessed. The combined use of scalp-EEG and magnetoencephalography was useful to increase non-invasive localization accuracy. I want to thank several people who significantly contributed in completion of the present work. Univ.-Prof Dr. Luder Deecke, Chairman of the Neurological University Clinic, Vienna, Austria, supported me throughout my career at the Neurological University Clinic in Vienna since 1985. Dr. William W Sutherling, Associate Professor at the University of California, Los Angeles, who was my advisor during my stay from 1987-1989 at the Department of Neurology, University of California, Los Angeles where most of the present work was done.

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