

Elizabeth A. Disbrow, M.S., Ph.D.

Clinical Interests	Dr. Disbrow's primary research interest is in the organization and function of higher-order somatosensory cortex. Additionally, in conjunction with colleagues, she has developed a model for functional magnetic resonance imaging (fMRI), magnetoencephalography (MEG) and diffusion-tensor imaging (DTI). Dr. Disbrow has begun comparing imaging results to data collected using invasive “gold standard” methods such as electrophysiological recording and neuroanatomical tracer injections. Further, she recently has begun to study higher-order somato-motor function in Parkinson’s disease. Dr. Disbrow is using fMRI and MEG to measure cortical and subcortical responses to a task hierarchy designed to examine cognitive functions such as motor planning and inhibition, cognitive switching, and memory.
Title	Associate Adjunct Professor
Specialty	Neurology
Department	Neurology
Division	Neurology
Center/Program Affiliation	Center for Neuroscience
Education	Ph.D., UC Davis, Davis, California, 1996 M.S., California State University, Sacramento, Sacramento, California, 1990 B.S., UC Davis, Davis, California, 1988
Professional Memberships	Society for Neuroscience
Select Recent Publications	E. A. Disbrow, Hinkley, L. B. N., Roberts, T. P. L. Ipsilateral representation of oral structures in human anterior parietal somatosensory cortex and integration of inputs across the midline. <i>Journal of Comparative Neurology</i> 467(4): 487-495, 2003. E. Disbrow, Litinas, E., Recanzone, G.H., Padberg, J., Krubitzer, L. Cortical connections of the second somatosensory area and the parietal ventral area in macaque monkeys. <i>Journal of Comparative Neurology</i> 462:382-399, 2003. L. Krubitzer, Huffman, K. J., Disbrow, E., Recanzone, G. The organization of area 3a in macaque monkeys: Contributions to the cortical phenotype. <i>Journal of Comparative Neurology</i> , 471(1): 97-111, 2003. E.A. Disbrow, Litinas, E., Recanzone, G.H., Slutsky, E., Krubitzed, L. Thalamocortical connections

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of the parietal ventral area (PV) and the second somatosensory area (S2) in macaque monkeys. *Thalamus and Related Systems*, 1(4):289-302, 2002.

E.A. Disbrow, Roberts, T.P.L., Poeppel, D. and Krubitzer, L. Evidence for interhemispheric processing of inputs from the hands in human S2 and PV. *Journal of Neurophysiology*, 85(5): 2236-2244, 2001.

Roberts, T.P.L., E.A. Disbrow, Roberts, H.C., Rowley, H.A. Quantification and reproducibility of tracking cortical extent of activation by use of functional MR imaging and magnetoencephalography. *American Journal of Neuroradiology*, 21(8):1377-1387, 2000.

E.A Disbrow, Roberts, T.P.L., and Krubitzer, L. The somatotopic organization of the lateral sulcus areas in Homo Sapiens: Evidence for SII and PV. *Journal of Comparative Neurology*, 418(N1):1-21, 2000.

E.A Disbrow, Slutsky, D, Roberts, TPL, Krubitzer, L. Functional MRI at 1.5 tesla: A comparison of the blood oxygenation level-dependent signal and electrophysiology. *Proceedings of the National Academy of Sciences, USA*, 97(17):9718-9723, 2000.

Baron, R, Baron, Y, E.A. Disbrow, Roberts, TPL. Activation of the somatosensory cortex during A beta-fiber mediated hyperalgesia – a MSI study. *Brain Research*, 871(1):75-82, 2000.

Baron, R., Y. Baron, E.A. Disbrow and T.P.L. Roberts. Brain processing of capsaicin-induced secondary hyperalgesia: a functional MRI study. *Neurology* 53:548-557, 1999.

E.A. Disbrow, T.P.L. Roberts, D. Slutsky and L. Krubitzer. The use of fMRI for determining the topographic organization of cortical fields in human and nonhuman primates. *Brain Research* 829: 167-173, 1999.

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