BRAIN

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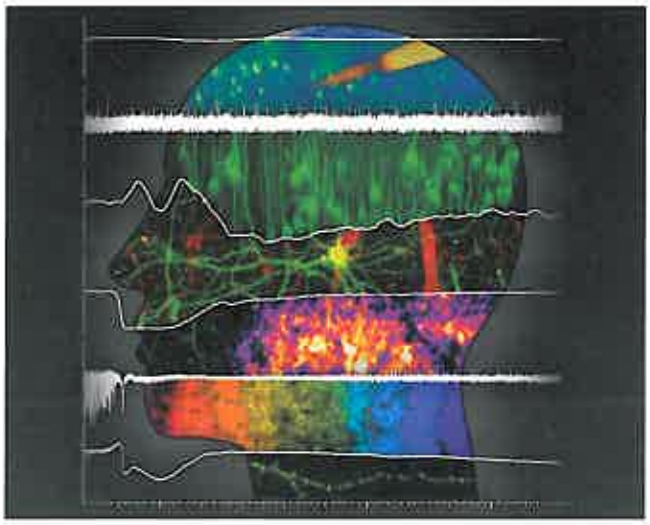

Cover image: Cortical spreading depolarization (CSD) waves underlie migraine aura and cause lesion expansion after stroke. Two-photon laser scanning fluorescence microscopy *in vivo* coupled with brain electrophysiology reveals rapid, reversible and recurrent neuronal endoplasmic reticulum fission during somatosensory stimulation and during CSD in mice. Inhibition of endoplasmic reticulum fission during CSD correlates with improved brain functional recovery. From Kucharz *et al.* CaMKII-dependent endoplasmic reticulum fission by whisker stimulation and during cortical spreading depolarization. Pp. 1049–1062.

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