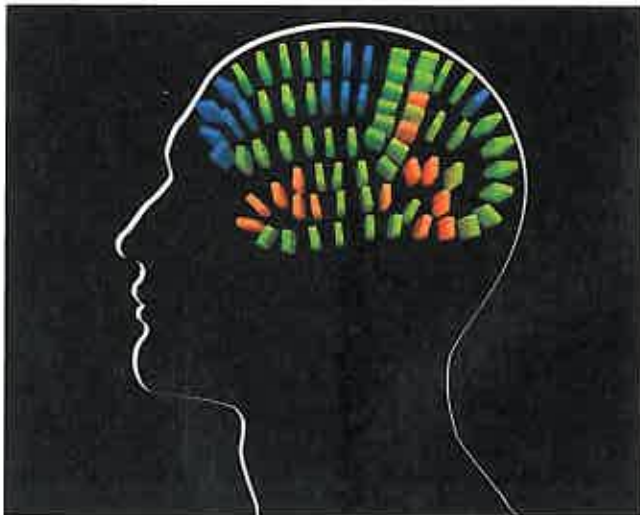


BRAIN

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Cover image: This cortico-cortical evoked potential study in focal epilepsy patients was able to demonstrate that ictal single photon emission computed tomography perfusion changes are not random, but supported by underlying neuronal connectivity. From Tousseyn *et al.*, 2017. Connectivity in ictal single photon emission computed tomography perfusion: a cortico-cortical evoked potential study. Pp. 1872–1884.

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L. Mao, P. Li, W. Zhu, W. Cai, Z. Liu, Y. Wang, W. Luo, R. A. Stetler, R. K. Leak, W. Yu, Y. Gao, J. Chen, G. Chen and X. Hu
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F. Geranmayeh, T. W. Chau, R. J. S. Wise, R. Leech and A. Hampshire
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S.-M. Fereshtehnejad, Y. Zeighami, A. Dagher and R. B. Postuma
1959

Tremor stability index: a new tool for differential diagnosis in tremor syndromes

L. di Biase, J.-S. Brittain, S. A. Shah, D. J. Pedrosa, H. Cagnan, A. Mathy, C. C. Chen, J. F. Martín-Rodríguez, P. Mir, L. Timmerman, P. Schwingschuh, K. Bhatia, V. Di Lazzaro and P. Brown
1977

Cerebrovascular resistance: effects on cognitive decline, cortical atrophy, and progression to dementia

B. Yew and D. A. Nation; for the Alzheimer's Disease Neuroimaging Initiative
1987

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P. Parbo, R. Ismail, K. V. Hansen, A. Amidi, F. H. Mårup, H. Gottrup, H. Brændgaard, B. O. Eriksson, S. F. Eskildsen, T. E. Lund, A. Tietze, P. Edison, N. Pavese, M. G. Stokholm, P. Borghammer, R. Hinz, J. Aanerud and D. J. Brooks
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The Alzheimer's disease transcriptome mimics the neuroprotective signature of IGF-1 receptor-deficient neurons

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