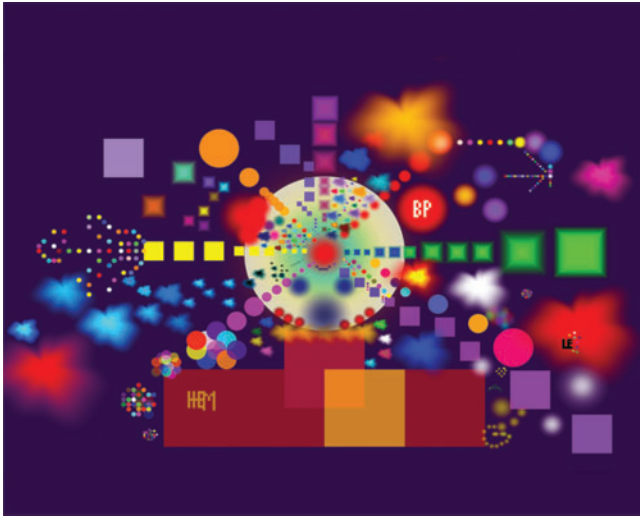


BRAIN

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Cover image: Painting by a patient in the locked-in state due to amyotrophic lateral sclerosis. The painting is produced using the P300 Brain-Computer Interface linked to the Brain Painting application. From Kübler. Brain-computer interfacing: science fiction has come true. Addendum. p. 2005. Copyright Hhem, Leipzig, Germany.

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The right hemisphere supports but does not replace left hemisphere auditory function in patients with persisting aphasia

S. Teki, G. R. Barnes, W. D. Penny, P. Iverson, Z. V. J. Woodhead, T. D. Griffiths and A. P. Leff
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A. Nair, J. M. Treiber, D. K. Shukla, P. Shih and R.-A. Müller
1942

Increased gyrification, but comparable surface area in adolescents with autism spectrum disorders

G. L. Wallace, B. Robustelli, N. Dankner, L. Kenworthy, J. N. Giedd and A. Martin
1956

Trust versus paranoia: abnormal response to social reward in psychotic illness

P. M. Gromann, D. J. Heslenfeld, A.-K. Fett, D. W. Joyce, S. S. Shergill and L. Krabbendam
1968

Occasional Paper

Shell shock at Queen Square: Lewis Yealland 100 years on

S. C. Linden, E. Jones and A. J. Lees
1976

Original Article

Brain communication in the locked-in state

D. De Massari, C. A. Ruf, A. Furdea, T. Matuz, L. van der Heiden, S. Halder, S. Silvoni and N. Birbaumer
1989

Book Review

Brain-computer interfacing: science fiction has come true

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Addendum

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