

# BRAIN

A JOURNAL OF NEUROLOGY

Volume 143 Part 7 July 2020

## Editorial

1963 Editorial. D. M. Kullmann

## Scientific Commentaries

1964 Gene therapy for global brain diseases: one small step for mice, one giant leap for humans. A. A. Rahim and P. Gissen

1966 Indirect connectome-based prediction of post-stroke deficits: prospects and limitations. R. Umarova and G. Thomalla

1970 Making neurogenetics a global endeavour. H. R. Morris

1973 Mapping the hyper-direct circuitry of impulsivity. A. Dagher

## Review Article

1975 Neurofilaments: neurobiological foundations for biomarker applications. A. R. Gafson, N. R. Barthélemy, P. Bomont, et al.

## Update

1999 Anterior visual system imaging to investigate energy failure in multiple sclerosis. I. Kleerekooper, A. Petzold and S. A. Trip

## Original Articles

2009 Molecular and cellular correlates of human nerve regeneration: ADCYAP1/PACAP enhance nerve outgrowth. G. Baskozos, O. Sandy-Hindmarch, A. J. Clark, et al.

2027 Synonymous variants in holoprosencephaly alter codon usage and impact the Sonic Hedgehog protein. A. Kim, J. Le Douce, F. Diab, et al.

2039 Modelling and treating GRIN2A developmental and epileptic encephalopathy in mice. A. Amador, C. D. Bostick, H. Olson, et al.

2058 Global CNS correction in a large brain model of human alpha-mannosidosis by intravascular gene therapy. S. Y. Yoon, J. E. Hunter, S. Chawla, et al.

2073 Molecular signature of slowly expanding lesions in progressive multiple sclerosis. K. Jäckle, T. Zeis, N. Schaeren-Wiemers, et al.

2089 Multiple sclerosis lesions in motor tracts from brain to cervical cord: spatial distribution and correlation with disability. A. Kerbrat, C. Gros, A. Badji, et al.

2106 Epilepsy subtype-specific copy number burden observed in a genome-wide study of 17 458 subjects. L.-M. Niestroj, E. Perez-Palma, D. P. Howrigan, et al.

2119 Epilepsy-causing STX1B mutations translate altered protein functions into distinct phenotypes in mouse neurons. G. Vardar, F. Gerth, X. J. Schmitt, et al.

2139 Polyadenylation of mRNA as a novel regulatory mechanism of gene expression in temporal lobe epilepsy. A. Parras, L. de Diego-Garcia, M. Alves, et al.

2154 Habituation of auditory startle reflex is a new sign of minimally conscious state. B. Hermann, A. B. Salah, V. Perlberg, et al.

2173 Post-stroke deficit prediction from lesion and indirect structural and functional disconnection. A. Salvalaggio, M. De Filippo De Grazia, M. Zorzi, et al.

2189 Bringing proportional recovery into proportion: Bayesian modelling of post-stroke motor impairment. A. K. Bonkhoff, T. Hope, D. Bzdok, et al.

2207 Pathogenic SREK1 decrease in Huntington's disease lowers TAF1 mimicking X-linked dystonia parkinsonism. I. H. Hernández, J. R. Cabrera, M. Santos-Galindo, et al.

2220 The role of genetics in Parkinson's disease: a large cohort study in Chinese mainland population. Y. Zhao, L. Qin, H. Pan, et al.

2235 The structural connectivity of subthalamic deep brain stimulation correlates with impulsivity in Parkinson's disease. P. E. Mosley, S. Paliwal, K. Robinson, et al.

2255 A role of the frontotemporal lobar degeneration risk factor TMEM106B in myelination. T. Feng, R. R. Sheng, S. Solé-Domènech, et al.

2272 Sex-dependent autosomal effects on clinical progression of Alzheimer's disease. C. C. Fan, S. J. Banks, W. K. Thompson, et al.

2281 Longitudinal neuroimaging biomarkers differ across Alzheimer's disease phenotypes. I. Sintini, J. Graff-Radford, M. L. Senjem, et al.

2295 ATN status in amnesic and non-amnesic Alzheimer's disease and frontotemporal lobar degeneration. K. A. Q. Cousins, D. J. Irwin, D. A. Wolk, et al.

2312 MRI signatures of brain age and disease over the lifespan based on a deep brain network and 14 468 individuals worldwide. V. M. Bashyam, G. Erus, J. Doshi, et al.

## Dorsal Column

### Book Review

2325 *La Folie des Grandeurs*. A.J. Lees

### Letters to the Editor

e54 NAD(P)HX dehydratase protein-truncating mutations are associated with neurodevelopmental disorder exacerbated by acute illness. N. N. Borna, Y. Kishita, J. Abe, et al.

e55 Reply: NAD(P)HX dehydratase protein-truncating mutations are associated with neurodevelopmental disorder exacerbated by acute illness. N. J. Van Bergen, C. L. Linster and J. Christodoulou

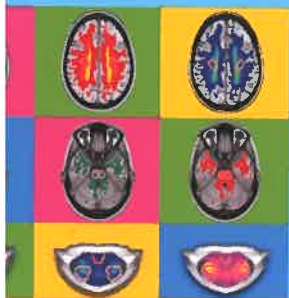
e56 Essential tremor as the early symptom of NOTCH2NLC gene-related repeat expansion disorder. H. Chen, L. Lu, B. Wang, et al.

e57 GGC repeat expansion in NOTCH2NLC is rare in European patients with essential tremor. W. Y. Yau, E. O'Connor, Z. Chen, et al.

e58 Heterogeneity of the circle of Willis and its implication in hippocampal perfusion. J. Gutierrez

e59 Reply: Heterogeneity of the circle of Willis and its implication in hippocampal perfusion. V. Perosa, E. Düzel and S. Schreiber

e60 Corrigenda



OXFORD  
UNIVERSITY PRESS