

Editorial

1 Editorial. *J. Rowe*

Scientific Commentaries

- 2 Resolution of pathogenic R-loops rescues motor neuron degeneration in spinal muscular atrophy. *N. Hensel, N. T. Detering, L. M. Walter, et al.*
- 5 Essential phenotypes of *NOTCH2NLC*-related repeat expansion disorder. *A. Westendorp and C. Klein*
- 8 Growing evidence links air pollution exposure to risk of Alzheimer's disease and related dementia. *M. C. Power*
- 10 Does early cognitive decline require the presence of both tau and amyloid- β ? *M. Schöll and A. Maass*

Review Articles

- 14 Freezing of gait: understanding the complexity of an enigmatic phenomenon. *D. Weiss, A. Schoellmann, M. D. Fox, et al.*
- 31 Cognitive fluctuations in Lewy body dementia: towards a pathophysiological framework. *E. Matar, J. M. Shine, G. M. Halliday, et al.*

Report

- 47 Postoperative delirium is associated with increased plasma neurofilament light. *C. P. Casey, H. Lindroth, R. Mohanty, et al.*

Original Articles

- 55 MNI C-terminal truncation syndrome is a novel neurodevelopmental and craniofacial disorder with partial rhombencephalosynapsis. *C. C. Y. Mak, D. Doherty, A. E. Lin, et al.*
- 69 ZPR1 prevents R-loop accumulation, upregulates *SMN2* expression and rescues spinal muscular atrophy. *A. Kannan, X. Jiang, L. He, et al.*

- 94 Choline transporter-like 1 deficiency causes a new type of childhood-onset neurodegeneration. *C. R. Fagerberg, A. Taylor, F. Distelmaier, et al.*
- 112 Deficiencies in vesicular transport mediated by *TRAPPC4* are associated with severe syndromic intellectual disability. *N. J. Van Bergen, Y. Guo, N. Al-Deri, et al.*
- 131 The coding and non-coding transcriptional landscape of subependymal giant cell astrocytomas. *A. Bongaarts, J. van Scheppingen, A. Korotkov, et al.*
- 150 Long-range connections are more severely damaged and relevant for cognition in multiple sclerosis. *K. A. Meijer, M. D. Steenwijk, L. Douw, et al.*
- 161 Adult loss of *Cacna1a* in mice recapitulates childhood absence epilepsy by distinct thalamic bursting mechanisms. *Q.-L. Miao, S. Herlitze, M. D. Mark, et al.*
- 175 Disrupted basal ganglia–thalamocortical loops in focal to bilateral tonic-clonic seizures. *X. He, G. Chaitanya, B. Asma, et al.*
- 191 Alzheimer-like amyloid and tau alterations associated with cognitive deficit in temporal lobe epilepsy. *S. Gourmaud, H. Shou, D. J. Irwin, et al.*
- 210 The role of haematological traits in risk of ischaemic stroke and its subtypes. *E. L. Harshfield, M. C. Sims, M. Traylor, et al.*
- 222 Expansion of GGC repeat in the human-specific *NOTCH2NLC* gene is associated with essential tremor. *Q.-Y. Sun, Q. Xu, Y. Tian, et al.*
- 234 Genetic modifiers of risk and age at onset in *GBA* associated Parkinson's disease and Lewy body dementia. *C. Blauwendraat, X. Reed, L. Krohn, et al.*
- 249 α -Synuclein BAC transgenic mice exhibit RBD-like behaviour and hyposmia: a prodromal Parkinson's disease model. *T. Taguchi, M. Ikuno, M. Hondo, et al.*
- 266 Microglial depletion prevents extracellular matrix changes and striatal volume reduction in a model of Huntington's disease. *J. D. Crapser, J. Ochaba, N. Soni, et al.*

- 289 Particulate matter and episodic memory decline mediated by early neuroanatomic biomarkers of Alzheimer's disease. *D. Younan, A. J. Petkus, K. F. Widaman, et al.*
- 303 Homozygous *GRN* mutations: new phenotypes and new insights into pathological and molecular mechanisms. *V. Huin, M. Barbier, A. Bottani, et al.*
- 320 Amyloid and tau imaging biomarkers explain cognitive decline from late middle-age. *T. J. Betthauser, R. L. Kosciak, E. M. Jonaitis, et al.*
- 336 Peripherally derived angiotensin converting enzyme-enhanced macrophages alleviate Alzheimer-related disease. *M. Koronyo-Hamaoui, J. Sheyn, E. Y. Hayden, et al.*
- 359 Regional differences in Alzheimer's disease pathology confound behavioural rescue after amyloid- β attenuation. *C. D. Morrone, P. Bazzigaluppi, T. L. Beckett, et al.*

Dorsal Column

Grey Matter

- 374 Etymology and the neuron(e). *A. R. Mehta, P. R. Mehta, S. P. Anderson, et al.*

Letters to the Editor

- e1 Osteoclast imbalance in primary familial brain calcification: evidence for its role in brain calcification. *C. Schiemenz, A. Westendorp, K. Tanzer, et al.*
- e2 Reply: Osteoclast imbalance in primary familial brain calcification: evidence for its role in brain calcification. *A. Keller and Y. Zarb*
- e3 Pathophysiology of gait disorders induced by bilateral globus pallidus interna stimulation in dystonia. *Z. Kosutka, S. Rivaud-Pechoux, P. Pouget, et al.*
- e4 Reply: Pathophysiology of gait disorders induced by bilateral globus pallidus interna stimulation in dystonia. *P. Mahlknecht, D. Kaski, D. Georgiev, et al.*
- e5 OnabotulinumtoxinA should be considered in medication overuse withdrawal in patients with chronic migraine. *D. Dressler*
- e6 Reply: OnabotulinumtoxinA should be considered in medication overuse withdrawal in patients with chronic migraine. *J. A. Pijpers, M. D. Ferrari and G. M. Terwindt*
- e7 Corrigendum

