



**Cover image:** Predicting progression to Alzheimer's disease using neural stem cells – illustration of a crystal ball containing neural stem cells created with Craiyon V2 AI image generator. Based on Thuret et al, Predicting progression to Alzheimer's disease with human hippocampal progenitors exposed to serum. Pp. 2045–58.

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1804

### NMDA-receptor-Fc-fusion constructs neutralize anti-NMDA receptor antibodies

S. Steinke, T. Kirmann, E. A. Loi, J. Nerlich, I. Weichard, P. Kuhn, T. Bullmann, A. Ritzau-Jost, F. S. Rizalar, H. Prüss, V. Haucke, C. Geis, M. Hust and S. Hallermann

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### Parallel in-depth analysis of repeat expansions in ataxia patients by long-read sequencing

H. Erdmann, F. Schöberl, M. Giurgiu, R. M. Leal Silva, V. Scholz, F. Scharf, M. Wendlandt, S. Kleinle, M. Deschauer, G. Nübling, W. Heide, S. S. Babacan, C. Schneider, T. Neumann, K. Hahn, B. Schoser, E. Holinski-Feder, D. A. Wolf and A. Abicht

1831

### Imbalance of NRG1-ERBB2/3 signalling underlies altered myelination in Charcot-Marie-Tooth disease 4H

L. El-Bazzal, A. Ghata, C. Estève, J. Gadacha, P. Quintana, C. Castro, N. Roeckel-Trévisiol, F. Lembo, N. Lenfant, A. Mégarbané, J.-P. Borg, N. Lévy, M. Bartoli, Y. Poitelon, P. L. Roubertoux, V. Delague and N. Bernard-Marissal

1844

### GALC variants affect galactosylceramidase enzymatic activity and risk of Parkinson's disease

K. Senkevich, C. E. Zorca, A. Dworkind, U. Rudakou, E. Somerville, E. Yu, A. Ermolaev, D. Nikanorova, J. Ahmad, J. A. Ruskey, F. Asayesh, D. Spiegelman, S. Fahn, C. Waters, O. Monchi, Y. Dauvilliers, N. Dupré, L. Greenbaum, S. Hassin-Baer, F. P. Grenn, M. S. R. Chiang, S. P. Sardi, B. Vanderperre, C. Blauwendraat, J.-F. Trempe, E. A. Fon, T. M. Durcan, R. N. Alcalay and Z. Gan-Or

1859

### Association between the LRP1B and APOE loci and the development of Parkinson's disease dementia

R. Real, A. Martinez-Carrasco, R. H. Reynolds, M. A. Lawton, M. M. X. Tan, M. Shoai, J.-C. Corvol, M. Ryten, C. Bresner, L. Hubbard, A. Brice, S. Lesage, J. Faouzi, A. Elbaz, F. Artaud, N. Williams, M. T. M. Hu, Y. Ben-Shlomo, D. G. Grosset, J. Hardy and H. R. Morris

1873

### Glycolysis regulates neuronal excitability via lactate receptor, HCA<sub>1</sub>R

D. Skwarzynska, H. Sun, J. Williamson, I. Kasprzak and J. Kapur

1888

### Interictal discharges in the human brain are travelling waves arising from an epileptogenic source

J. M. Diamond, C. P. Withers, J. I. Chapeton, S. Rahman, S. K. Inati and K. A. Zaghloul

1903

### Non-invasive mapping of epileptogenic networks predicts surgical outcome

L. Corona, E. Tamilia, M. S. Perry, J. R. Madsen, J. Bolton, S. S. D. Stone, S. M. Stufflebeam, P. L. Pearl and C. Papadelis

1916

### Anti-pan-neurofascin antibodies induce subclass-related complement activation and nodo-paranodal damage

L. Appeltshauser, H. Junghof, J. Messinger, J. Linke, A. Haarmann, I. Ayzenberg, P. Baka, J. Dorst, A. L. Fisse, T. Grüter, V. Hauschildt, A. Jörk, F. Leyboldt, M. Mäurer, E. Meini, S. Michels, J. Motte, K. Pitarokoili, M. Stettner, C. Villmann, M. Weihrauch, G. S. Welte, I. Zerr, K. G. Heinze, C. Sommer and K. Doppler

1932

### Using *in vivo* functional and structural connectivity to predict chronic stroke aphasia deficits

Y. Zhao, C. R. Cox, M. A. Lambon Ralph and A. D. Halai

1950

### Latent disconnectome prediction of long-term cognitive-behavioural symptoms in stroke

L. Talozzi, S. J. Forkel, V. Pacella, V. Nozais, E. Allart, C. Piscicelli, D. Pérennou, D. Tranel, A. Boes, M. Corbetta, P. Nachev and M. Thiebaut de Schotten

1963

### Cerebrospinal fluid immunoglobulins in primary progressive multiple sclerosis are pathogenic

J. K. Wong, J. Lin, N. J. Kung, A. L. Tse, S. J. E. Shimshak, A. K. Roselle, F. M. Cali, J. Huang, J. M. Beaty, T. M. Shue and S. A. Sadiq

1979

### Siblings reduce multiple sclerosis risk by preventing delayed primary Epstein-Barr virus infection

K. Rostgaard, N. M. Nielsen, M. Melbye, M. Frisch and H. Hjalgrim

1993

### The clinical and molecular spectrum of ZFYVE26-associated hereditary spastic paraparesis: SPG15

A. Saffari, M. Kellner, C. Jordan, H. Rosengarten, A. Mo, B. Zhang, O. Strelko, S. Neuser, M. Y. Davis, N. Yoshikura, N. Futamura, T. Takeuchi, S. Nabatame, H. Ishiura, S. Tsuji, H. S. Aldeen, E. Cali, C. Rocca, H. Houlden, S. Efthymiou, B. Assmann, G. Yoon, B. A. Trombetta, P. Kivisäkk, F. Eichler, H. Nan, Y. Takiyama, A. Tessa, F. M. Santorelli, M. Sahin, C. Blackstone, E. Yang, R. Schüle and D. Ebrahimi-Fakhari

2003

**Promoting regeneration while blocking cell death preserves motor neuron function in a model of ALS**

J. J. Wlaschin, C. Donahue, J. Gluski, J. F. Osborne, L. M. Ramos, H. Silberberg and C. E. Le Pichon

2016

**Predicting amyloid PET and tau PET stages with plasma biomarkers**

C. R. Jack Jr, H. J. Wiste, A. Algeciras-Schimrich, D. J. Figdore, C. G. Schwarz, V. J. Lowe, V. K. Ramanan, P. Vemuri, M. M. Mielke, D. S. Knopman, J. Graff-Radford, B. F. Boeve, K. Kantarci, P. M. Cogswell, M. L. Senjem, J. L. Gunter, T. M. Therneau and R. C. Petersen

2029

**Predicting progression to Alzheimer's disease with human hippocampal progenitors exposed to serum**

A. Maruszak, E. Silajdžić, H. Lee, T. Murphy, B. Liu, L. Shi, C. de Lucia, A. Douiri, E. Salta, A. J. Nevado, C. E. Teunissen, P. J. Visser, J. Price, H. Zetterberg, S. Lovestone and S. Thuret

2045

**Educational attainment, structural brain reserve and Alzheimer's disease: a Mendelian randomization analysis**

A. Seyedsalehi, V. Warrier, R. A. I. Bethlehem, B. I. Perry, S. Burgess and G. K. Murray

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**Cholinergic white matter pathways along the Alzheimer's disease continuum**

M. Nemy, M. Dyrba, F. Brosseron, K. Buerger, P. Dechant, L. Dobisch, M. Ewers, K. Fließbach, W. Glanz, D. Goerss, M. T. Heneka, S. Hetzer, E. I. Incesoy, D. Janowitz, I. Kilimann, C. Laske, F. Maier, M. H. Munk, R. Perneczky, O. Peters, L. Preis, J. Priller, B.-S. Rauchmann, S. Röske, N. Roy, K. Scheffler, A. Schneider, B. H. Schott, A. Spottke, E. J. Spruth, M. Wagner, J. Wiltfang, R. Yakupov, M. Eriksdotter, E. Westman, O. Stepankova, L. Vyslouzilova, E. Düzel, F. Jessen, S. J. Teipel and D. Ferreira

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**Transthyretin attenuates TDP-43 proteinopathy by autophagy activation via ATF4 in FTLD-TDP**

Y.-P. Chu, L.-W. Jin, L.-C. Wang, P.-C. Ho, W.-Y. Wei and K.-J. Tsai

2089

**Brain region-specific synaptic function of FUS underlies the FTLD-linked behavioural disinhibition**

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**Reply: Biallelic variants in the COQ7 gene cause distal hereditary motor neuropathy in two Chinese families**

A. Jacquier, J. Theuriet, S. Ribault, N. Lacoste, A. Pegat, P. Latour and L. Schaeffer

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**Correction**

**Correction to: Variants in the SK2 channel gene (KCNN2) lead to dominant neurodevelopmental movement disorders**

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