

**Cover legend:** This 3D-reconstructed confocal image shows GFAP+ CA1 hippocampal astrocytes in a mouse that exhibited spontaneous unprovoked recurrent seizures after repetitive diffuse mild traumatic brain injury. The seizures were associated with early and sustained loss of glutamate transporter 1 expression in atypical astrocytes. For more details, see the article by Shandra et al. (pages 1944–1963).

1767 This Week in The Journal

### Journal Club

1768 **Transcranial Direct Current Stimulation Modulates GABA Levels Beyond the Stimulated Region: Perspectives for Stroke Rehabilitation**  
Takahiro Inoue and Kenji Taneda

### Research Articles

#### CELLULAR/MOLECULAR

1771 **Characterization of Dmrt3-Derived Neurons Suggest a Role within Locomotor Circuits**  
Sharn Perry, Martin Larhammar, Jennifer Vieillard, Chetan Nagaraja, Markus M. Hilscher, Atieh Tafreshiha, Fadi Rofo, Fabio V. Caixeta, and Klas Kullander

#### DEVELOPMENT/PLASTICITY/REPAIR

1783 **Temporoammonic Stimulation Depotentiates Schaffer Collateral LTP via p38 MAPK Downstream of Adenosine A1 Receptors**  
Yukitoshi Izumi and Charles F. Zorumski

#### SYSTEMS/CIRCUITS

1793 **Signaling Incentive and Drive in the Primate Ventral Pallidum for Motivational Control of Goal-Directed Action**  
Atsushi Fujimoto, Yukiko Hori, Yuji Nagai, Erika Kikuchi, Kei Oyama, Tetsuya Suhara, and Takafumi Minamimoto

1805 **Amplification and Suppression of Traveling Waves along the Mouse Organ of Corti: Evidence for Spatial Variation in the Longitudinal Coupling of Outer Hair Cell-Generated Forces**  
James B. Dewey, Brian E. Applegate, and John S. Oghalai

#### BEHAVIORAL/COGNITIVE

1817 **Grey Matter Volume Differences Associated with Extremely Low Levels of Cannabis Use in Adolescence**  
Catherine Orr, Philip Spechler, Zhipeng Cao, Matthew Albaugh, Bader Chaarani, Scott Mackey, Deepak D'Souza, Nicholas Allgaier, Tobias Banaschewski, Arun L.W. Bokde, Uli Bromberg, Christian Büchel, Erin Burke Quinlan, Patricia Conrod, Sylvane Desrivières, Herta Flor, Vincent Frouin, Penny Gowland, Andreas Heinz, Bernd Ittermann, Jean-Luc Martinot, Marie-Laure Paillère Martinot, Frauke Nees, Dimitri Papadopoulos Orfanos, Tomáš Paus, Luise Poustka, Sabina Millenet, Juliane H. Fröhner, Rajiv Radhakrishnan, Michael N. Smolka, Henrik Walter, Robert Whelan, Gunter Schumann, Alexandra Potter, and Hugh Garavan

- 1828 **PKM $\zeta$  Inhibition Disrupts Reconsolidation and Erases Object Recognition Memory**  
Janine I. Rossato, Maria Carolina Gonzalez, Andressa Radiske, Gênedey Apolinário, Sergio Conde-Ocazionez, Lia R. Bevilaqua, and Martín Cammarota
- 1842 **Prior Exposure to Salient Win-Paired Cues in a Rat Gambling Task Increases Sensitivity to Cocaine Self-Administration and Suppresses Dopamine Efflux in Nucleus Accumbens: Support for the Reward Deficiency Hypothesis of Addiction**  
Jacqueline-Marie N. Ferland, Tristan J. Hynes, Celine D. Hounjet, David Lindenbach, Wendy K. Adams, Anthony G. Phillips, and Catharine A. Winstanley
- 1855 **Alpha Oscillations Modulate Preparatory Activity in Marmoset Area 8Ad**  
Kevin Johnston, Liya Ma, Lauren Schaeffer, and Stefan Everling

#### NEUROBIOLOGY OF DISEASE

- 1867 **Non-Trigeminal Nociceptive Innervation of the Posterior Dura: Implications to Occipital Headache**  
Rodrigo Nosedá, Agustin Melo-Carrillo, Rony-Reuven Nir, Andrew M. Strassman, and Rami Burstein
- 1881 **Mild Intraocular Pressure Elevation in Mice Reveals Distinct Retinal Ganglion Cell Functional Thresholds and Pressure-Dependent Properties**  
Xiaofeng Tao, Jasdeep Sabharwal, Robert L. Seilheimer, Samuel M. Wu, and Benjamin J. Frankfort
- 1892 **Loss-of-Huntingtin in Medial and Lateral Ganglionic Lineages Differentially Disrupts Regional Interneuron and Projection Neuron Subtypes and Promotes Huntington's Disease-Associated Behavioral, Cellular, and Pathological Hallmarks**  
Mark F. Mehler, Jenna R. Petronglo, Eduardo E. Arteaga-Bracho, Maria E. Gulinello, Michael L. Winchester, Nandini Pichamoorthy, Stephen K. Young, Christopher D. DeJesus, Hifza Ishtiaq, Solen Gokhan, and Aldrin E. Molero
- 1910 **Pyk2 Signaling through Graft1 and RhoA GTPase Is Required for Amyloid- $\beta$  Oligomer-Triggered Synapse Loss**  
Suho Lee, Santiago V. Salazar, Timothy O. Cox, and Stephen M. Strittmatter
- 1930 **Cardiolipin-Dependent Mitophagy Guides Outcome after Traumatic Brain Injury**  
Honglu Chao, Chao Lin, Qiang Zuo, Yinlong Liu, Mengqing Xiao, Xiupeng Xu, Zheng Li, Zhongyuan Bao, Huimei Chen, Yongping You, Patrick M. Kochanek, Huiyong Yin, Ning Liu, Valerian E. Kagan, Hülya Bayır, and Jing Ji
- 1944 **Repetitive Diffuse Mild Traumatic Brain Injury Causes an Atypical Astrocyte Response and Spontaneous Recurrent Seizures**  
Oleksii Shandra, Alexander R. Winemiller, Benjamin P. Heithoff, Carmen Munoz-Ballester, Kijana K. George, Michael J. Benko, Ivan A. Zuidhoek, Michelle N. Besser, Dallece E. Curley, G. Franklin Edwards III, Anroux Mey, Alexis N. Harrington, Jeremy P. Kitchen, and Stefanie Robel

**1964** *Erratum:* The article “p130<sup>CAS</sup> Is Required for Netrin Signaling and Commissural Axon Guidance,” by Guofa Liu, Weiquan Li, Xue Gao, Xiaoling Li, Claudia Jürgensen, Hwan-Tae Park, Nah-Young Shin, Jian Yu, Ming-Liang He, Steven K. Hanks, Jane Y. Wu, Kun-Liang Guan, and Yi Rao, appeared on pages 957–968 of the January 24, 2007 issue. An erratum for this article appears on p. 1964.

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