



**Cover legend:** This image shows the morphology of mouse glia 24 hours after four serial systemic injections of endotoxin. Circumventricular organs were immunostained for microglia/macrophages (Iba1, red), astrocytes (GFAP, green) and nuclei (DRAQ5, blue). Serial systemic endotoxin injections elicit neuroprotective spinal cord microglia through interleukin-1-dependent cross-talk with endothelial cells. For more information, see the article by Freria et al. (pages 9103–9120). Cover Image: Faith H. Brennan.

8975 This Week in The Journal

## Research Articles

### CELLULAR/MOLECULAR

- 8976 Piezo2 Mediates Low-Threshold Mechanically Evoked Pain in the Cornea**  
Jorge Fernández-Trillo, Danny Florez-Paz, Almudena Íñigo-Portugués, Omar González-González, Ana Gómez del Campo, Alejandro González, Félix Viana, Carlos Belmonte, and Ana Gomis
- 8994 Astrocytes in the Ventrolateral Preoptic Area Promote Sleep**  
Jae-Hong Kim, In-Sun Choi, Ji-Young Jeong, Il-Sung Jang, Maan-Gee Lee, and Kyoungsoo Suk

### DEVELOPMENT/PLASTICITY/REPAIR

- 9012 Suppression of DNA Double-Strand Break Formation by DNA Polymerase  $\beta$  in Active DNA Demethylation Is Required for Development of Hippocampal Pyramidal Neurons**  
Akiko Uyeda, Kohei Onishi, Teruyoshi Hirayama, Satoko Hattori, Tsuyoshi Miyakawa, Takeshi Yagi, Nobuhiko Yamamoto, and Noriyuki Sugo

### SYSTEMS/CIRCUITS

- 9028 Localized Prediction of Glutamate from Whole-Brain Functional Connectivity of the Pregenual Anterior Cingulate Cortex**  
Louise Martens, Nils B. Kroemer, Vanessa Teckentrup, Lejla Colic, Nicola Palomero-Gallagher, Meng Li, and Martin Walter
- 9043 A Central Amygdala-Globus Pallidus Circuit Conveys Unconditioned Stimulus-Related Information and Controls Fear Learning**  
Jacqueline Giovannello, Kai Yu, Alessandro Furlan, Gregory Thomas Nachtrab, Radhashree Sharma, Xiaoke Chen, and Bo Li

### BEHAVIORAL/COGNITIVE

- 9055 The Hippocampus and Dorsolateral Striatum Integrate Distinct Types of Memories through Time and Space, Respectively**  
Janina Ferbinteanu
- 9066 Regulation of Olfactory Associative Memory by the Circadian Clock Output Signal Pigment-Dispersing Factor (PDF)**  
Johanna G. Flyer-Adams, Emmanuel J. Rivera-Rodriguez, Junwei Yu, Jacob D. Mardovin, Martha L. Reed, and Leslie C. Griffith
- 9078 Temporal Dynamics of the Neural Representation of Social Relationships**  
Sarah L. Dziura and James C. Thompson

- 9088 **No Evidence for a Role of Spatially Modulated  $\alpha$ -Band Activity in Tactile Remapping and Short-Latency, Overt Orienting Behavior**  
José P. Ossandón, Peter König, and Tobias Heed

#### NEUROBIOLOGY OF DISEASE

- 9103 **Serial Systemic Injections of Endotoxin (LPS) Elicit Neuroprotective Spinal Cord Microglia through IL-1-Dependent Cross Talk with Endothelial Cells**  
Camila M. Freria, Faith H. Brennan, David R. Sweet, Zhen Guan, Jodie C. Hall, Kristina A. Kigerl, Daniel P. Nemeth, Xiaoyu Liu, Steve Lacroix, Ning Quan, and Phillip G. Popovich
- 9121 **Deletion of the Gene Encoding the NMDA Receptor GluN1 Subunit in Schwann Cells Causes Ultrastructural Changes in Remak Bundles and Hypersensitivity in Pain Processing**  
Coralie Brifault, Haylie Romero, Alicia Van-Enoo, Don Pizzo, Pardis Azmoon, HyoJun Kwon, Chanond Nasamran, Steven L. Gonias, and Wendy M. Campana
- 9137 **Neutral Lipid Cacostasis Contributes to Disease Pathogenesis in Amyotrophic Lateral Sclerosis**  
James C. Dodge, Elizabeth H. Jensen, Jinlong Yu, S. Pablo Sardi, Allison R. Bialas, Tatyana V. Taksir, Dinesh S. Bangari, and Lamy S. Shihabuddin
- 9148 **Excitation-Inhibition Imbalance Leads to Alteration of Neuronal Coherence and Neurovascular Coupling under Acute Stress**  
Kayoung Han, Myunghee Lee, Hyun-Kyoung Lim, Minwoo Wendy Jang, Jea Kwon, C. Justin Lee, Seong-Gi Kim, and Minah Suh
- 9163 **Erratum:** The article "Platelet-Derived Growth Factor B Chain Is a Novel Target Gene of Cocaine-Mediated Notch1 Signaling: Implications for HIV-Associated Neurological Disorders," by Honghong Yao, Ming Duan, Guoku Hu, and Shilpa Buch, appeared on pages 12449–12454 of the August 31, 2011 issue. An erratum for this article appear on page 9163.

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