

# JNeurosci

THE JOURNAL OF NEUROSCIENCE

April 12, 2017 • Volume 37 Number 15 • www.jneurosci.org



**Cover legend:** Glycoprotein M6a (green) is localized to the leading edge of growth cones, which are here labeled with fluorescently tagged actin (red). GPM6a is involved in the formation of lipid-rafts and contributes to the determination of neuronal polarity. For more information, see the article by Honda et al. (pages 4046 – 4064).

## i This Week in The Journal

### Journal Club

- 3989 **GABAergic Networks in the Prefrontal Cortex and Working Memory**  
Cristina Bañuelos and Marta Urszula Wołoszynowska-Fraser
- 3992 **Flexible Adaptation of Brain Networks during Stress**  
Matthew A. Scult

### Research Articles

#### CELLULAR/MOLECULAR

- 4074 **Reduction of Ether-Type Glycerophospholipids, Plasmalogens, by NF- $\kappa$ B Signal Leading to Microglial Activation**  
Md. Shamim Hossain, Yuichi Abe, Fatma Ali, Mohammed Youssef, Masanori Honsho, Yukio Fujiki, and Toshihiko Katafuchi
- 4093 **A Rare Variant Identified Within the GluN2B C-Terminus in a Patient with Autism Affects NMDA Receptor Surface Expression and Spine Density**  
Shuxi Liu, Liang Zhou, Hongjie Yuan, Marta Vieira, Antonio Sanz-Clemente, John D. Badger II, Wei Lu, Stephen F. Traynelis, and Katherine W. Roche
- 4128 **Gene Expression Profiling with Cre-Conditional Pseudorabies Virus Reveals a Subset of Midbrain Neurons That Participate in Reward Circuitry**  
Lisa E. Pomeranz, Mats I. Ekstrand, Kaamashri N. Latcha, Gregory A. Smith, Lynn W. Enquist, and Jeffrey M. Friedman
- 4181 **Characterization of a Human Point Mutation of VGLUT3 (p.A211V) in the Rodent Brain Suggests a Nonuniform Distribution of the Transporter in Synaptic Vesicles**  
Lauriane Ramet, Johannes Zimmermann, Tiphaine Bersot, Odile Poirel, Stéphanie De Gois, Katlin Silm, Diana Yae Sakae, Nina Mansouri-Guilani, Marie-Josée Bourque, Louis-Eric Trudeau, Nicolas Pietrancosta, Stéphanie Daumas, Véronique Bernard, Christian Rosenmund, and Salah El Mestikawy
- 4213 **The Phosphorylation State of the *Drosophila* TRP Channel Modulates the Frequency Response to Oscillating Light *In Vivo***  
Olaf Voolstra, Elisheva Rhodes-Mordov, Ben Katz, Jonas-Peter Bartels, Claudia Oberegelsbacher, Susanne Katharina Schotthöfer, Bushra Yasin, Hanan Tzadok, Armin Huber, and Baruch Minke

#### DEVELOPMENT/PLASTICITY/REPAIR

- 4046 Extracellular Signals Induce Glycoprotein M6a Clustering of Lipid Rafts and Associated Signaling Molecules**  
Atsuko Honda, Yasuyuki Ito, Kazuko Takahashi-Niki, Natsuki Matsushita, Motohiro Nozumi, Hidenori Tabata, Kosei Takeuchi, and Michihiro Igarashi

#### SYSTEMS/CIRCUITS

- 4007 GABA Cells in the Central Nucleus of the Amygdala Promote Cataplexy**  
Matthew B. Snow, Jimmy J. Fraise, Gabrielle Thibault-Messier, Victoria L. Chuen, Aren Thomasian, Richard L. Horner, and John Peever
- 4032 Functional Organization of Vestibulo-Ocular Responses in Abducens Motoneurons**  
Haike Dietrich, Stefan Glasauer, and Hans Straka

#### BEHAVIORAL/COGNITIVE

- 3995 GABAergic Neurons of the Central Amygdala Promote Cataplexy**  
Carrie E. Mahoney, Lindsay J. Agostinelli, Jessica N.K. Brooks, Bradford B. Lowell, and Thomas E. Scammell
- 4065 tDCS-Induced Modulation of GABA Levels and Resting-State Functional Connectivity in Older Adults**  
Daria Antonenko, Florian Schubert, Florian Bohm, Bernd Ittermann, Semiha Aydin, Dayana Hayek, Ulrike Grittner, and Agnes Flöel
- 4103 Functional Connectivity of Multiple Brain Regions Required for the Consolidation of Social Recognition Memory**  
Toshiyuki Tanimizu, Justin W. Kenney, Emiko Okano, Kazune Kadoma, Paul W. Frankland, and Satoshi Kida
- 4117 FEF-Controlled Alpha Delay Activity Precedes Stimulus-Induced Gamma-Band Activity in Visual Cortex**  
Tzvetan Popov, Sabine Kastner, and Ole Jensen
- 4200 Depressive-Like Behaviors Are Regulated by NOX1/NADPH Oxidase by Redox Modification of NMDA Receptor 1**  
Masakazu Ibi, Junjie Liu, Noriaki Arakawa, Shiho Kitaoka, Ai Kawaji, Ken-ichi Matsuda, Kazumi Iwata, Misaki Matsumoto, Masato Katsuyama, Kai Zhu, Satoshi Teramukai, Tomoyuki Furuyashiki, and Chihiro Yabe-Nishimura

#### NEUROBIOLOGY OF DISEASE

- 4023 Astrocytic LRP1 Mediates Brain A $\beta$  Clearance and Impacts Amyloid Deposition**  
Chia-Chen Liu, Jin Hu, Na Zhao, Jian Wang, Na Wang, John R. Cirrito, Takahisa Kanekiyo, David M. Holtzman, and Guojun Bu
- 4145 Adult Hippocampal Neurogenesis along the Dorsoventral Axis Contributes Differentially to Environmental Enrichment Combined with Voluntary Exercise in Alleviating Chronic Inflammatory Pain in Mice**  
Jie Zheng, Ying-Ying Jiang, Ling-Chi Xu, Long-Yu Ma, Feng-Yu Liu, Shuang Cui, Jie Cai, Fei-Fei Liao, You Wan, and Ming Yi

4158 **Alteration of Neuronal Excitability and Short-Term Synaptic Plasticity in the Prefrontal Cortex of a Mouse Model of Mental Illness**

Gregg W. Crabtree, Ziyi Sun, Mirna Kvajo, Jantine A.C. Broek, Karine Fénelon, Heather McKellar, Lan Xiao, Bin Xu, Sabine Bahn, James M. O'Donnell, and Joseph A. Gogos

---

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/content/information-authors>. Authors should refer to these Instructions online for recent changes that are made periodically.

Submissions should be submitted online using the following url: <http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; e-mail, [jn@sfn.org](mailto:jn@sfn.org).