



Cover legend: This image shows the distribution of voltage-gated sodium channels (green) in the brain of a *Drosophila* 3rd instar larvae. Endogenous tagging of the only voltage gated sodium channel in *Drosophila*, paralytic (*para*), shows that voltage-gated sodium channels have a nonuniform distribution and are enriched in distal axonal segments. For more information, see the article by Ravenscroft et al. (pages 7999–8024). Cover Image: Thomas Ravenscroft.

7995 This Week in The Journal

Journal Club

- 7996 **Chronic Pain Releases Parabrachial Activity from Central Amygdala Inhibition**
Pia-Kelsey O'Neill and Jozsef Meszaros

Research Articles

CELLULAR/MOLECULAR

- 7999 ***Drosophila* Voltage-Gated Sodium Channels Are Only Expressed in Active Neurons and Are Localized to Distal Axonal Initial Segment-like Domains**
Thomas A. Ravenscroft, Jasper Janssens, Pei-Tseng Lee, Burak Tepe, Paul C. Marcogliese, Samira Makhzami, Todd C. Holmes, Stein Aerts, and Hugo J. Bellen
- 8025 **Activity-Dependent Global Downscaling of Evoked Neurotransmitter Release across Glutamatergic Inputs in *Drosophila***
Shanker Karunanithi, Yong Qi Lin, G. Lorenzo Odierna, Hareesh Menon, Juan Mena Gonzalez, G. Gregory Neely, Peter G. Noakes, Nickolas A. Lavidis, Andrew J. Moorhouse, and Bruno van Swinderen
- 8042 **The Rab5–Rab11 Endosomal Pathway is Required for BDNF-Induced CREB Transcriptional Regulation in Hippocampal Neurons**
Andrés G. González, Oscar M. Lazo, and Francisca C. Bronfman
- 8055 **Biological Role of Arrestin-1 Oligomerization**
Srimal Samaranyake, Sergey A. Vishnivetskiy, Camilla R. Shores, Kimberly C. Thibeault, Seunghyi Kook, Jeannie Chen, Marie E. Burns, Eugenia V. Gurevich, and Vsevolod V. Gurevich
- 8070 **BDNF Activates Postsynaptic TrkB Receptors to Induce Endocannabinoid Release and Inhibit Presynaptic Calcium Influx at a Calyx-Type Synapse**
Yichen Wu, Qingzhuo Liu, Bin Guo, Fangfei Ye, Jianlong Ge, and Lei Xue
- 8088 **SPARCL1 Promotes Excitatory But Not Inhibitory Synapse Formation and Function Independent of Neurexins and Neuroligins**
Kathlyn J. Gan and Thomas C. Südhof

DEVELOPMENT/PLASTICITY/REPAIR

- 8103 **The GTPase Arl8B Plays a Principle Role in the Positioning of Interstitial Axon Branches by Spatially Controlling Autophagosome and Lysosome Location**
Gee Adnan, Aine Rubikaite, Moqadisa Khan, Michael Reber, Philip Suetterlin, Robert Hindges, and Uwe Drescher

SYSTEMS/CIRCUITS

- 8119** **Parallel Processing of Facial Expression and Head Orientation in the Macaque Brain**
Jessica Taubert, Shruti Japee, Aidan P. Murphy, Clarissa T. Tardiff, Elissa A. Koele, Susheel Kumar, David A. Leopold, and Leslie G. Ungerleider
- 8132** **Analysis of Parvocellular and Magnocellular Visual Pathways in Human Retina**
Rania A. Masri, Ulrike Grünert, and Paul R. Martin

BEHAVIORAL/COGNITIVE

- 8149** **Regional Myo-Inositol, Creatine, and Choline Levels Are Higher at Older Age and Scale Negatively with Visuospatial Working Memory: A Cross-Sectional Proton MR Spectroscopy Study at 7 Tesla on Normal Cognitive Ageing**
Anna Lind, Carl-Johan Boraxbekk, Esben Thade Petersen, Olaf Bjarne Paulson, Hartwig Roman Siebner, and Anouk Marsman

NEUROBIOLOGY OF DISEASE

- 8160** **tPA Deficiency Underlies Neurovascular Coupling Dysfunction by Amyloid- β**
Laibaik Park, Joan Zhou, Kenzo Koizumi, Gang Wang, Antoine Anfray, Sung Ji Ahn, James Seo, Ping Zhou, Lingzhi Zhao, Steven Paul, Josef Anrather, and Costantino Iadecola
- 8174** **Phosphorylation of eIF2 α Promotes Schwann Cell Differentiation and Myelination in CMT1B Mice with Activated UPR**
Cristina Scapin, Cinzia Ferri, Emanuela Pettinato, Francesca Bianchi, Ubaldo Del Carro, M. Laura Feltri, Randal J. Kaufman, Lawrence Wrabetz, and Maurizio D'Antonio
- 8188** **14,15-Epoxyeicosatrienoic Acid Alleviates Pathology in a Mouse Model of Alzheimer's Disease**
Wenjun Chen, Mengyao Wang, Minzhen Zhu, Wenchao Xiong, Xihe Qin, and Xinhong Zhu
- 8204** **Erratum:** The article "Alzheimer's Disease-Like Pathology Induced by Amyloid- β Oligomers in Nonhuman Primates," by Leticia Forny-Germano, Natalia M. Lyra e Silva, André F. Batista, Jordano Brito-Moreira, Matthias Gralle, Susan E. Boehnke, Brian C. Coe, Ann Lablans, Suelen A. Marques, Ana Maria B. Martinez, William L. Klein, Jean-Christophe Houzel, Sergio T. Ferreira, Douglas P. Munoz, and Fernanda G. De Felice appeared on pages 13629–13643 of the October 8, 2014 issue. An erratum for this article appears on page 8204.
- 8205** **Erratum:** The article "Myocardial Infarction Causes Transient Cholinergic Transdifferentiation of Cardiac Sympathetic Nerves via gp130," by Antoinette Olivas, Ryan T. Gardner, Lianguo Wang, Crystal M. Ripplinger, William R. Woodward, and Beth A. Habecker appeared on pages 479–488 of the January 13, 2016 issue. An erratum for this article appears on page 8205.

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