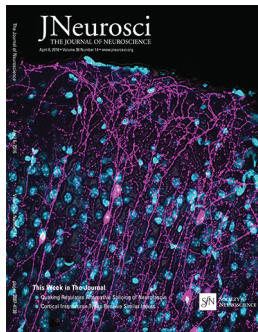


# JNeurosci

THE JOURNAL OF NEUROSCIENCE

April 6, 2016 • Volume 36 Number 14 • www.jneurosci.org



**Cover legend:** These vasoactive intestinal peptide (VIP)-expressing interneurons in mouse somatosensory cortex were targeted with a modified rabies virus system to label their brain-wide monosynaptic inputs. Many VIP-expressing interneurons exhibit a striking bipolar morphology, with primary neurites that run perpendicular to the cortical surface. For more information, see the article by Wall et al. (pages 4000–4009).

## i This Week in The Journal

### Journal Club

- 3887 **The Tortuous Routes of Migrating Neurons in the Folding Neocortex**  
Marta Florio, Takashi Namba, and Katherine Long

### Articles

#### CELLULAR/MOLECULAR

- 3962 **Adenosine A<sub>1</sub> Receptor Protects Against Cisplatin Ototoxicity by Suppressing the NOX3/STAT1 Inflammatory Pathway in the Cochlea**  
Tejbeer Kaur, Vikrant Borse, Sandeep Sheth, Kelly Sheehan, Sumana Ghosh, Srinivasan Tupal, Sarvesh Jajoo, Debashree Mukherjea, Leonard P. Rybak, and Vickram Ramkumar
- 4010 **Counting Vesicular Release Events Reveals Binomial Release Statistics at Single Glutamatergic Synapses**  
Gerardo Malagon, Takafumi Miki, Isabel Llano, Erwin Neher, and Alain Marty
- 4026 **Dopaminergic Neurons Exhibit an Age-Dependent Decline in Electrophysiological Parameters in the MitoPark Mouse Model of Parkinson's Disease**  
Sarah Y. Branch, Cang Chen, Ramaswamy Sharma, James D. Lechleiter, Senlin Li, and Michael J. Beckstead
- 4106 **Quaking Regulates *Neurofascin 155* Expression for Myelin and Axoglial Junction Maintenance**  
Lama Darbelli, Gillian Vogel, Guillermina Almazan, and Stéphane Richard

#### DEVELOPMENT/PLASTICITY/REPAIR

- 3890 **Promotion of Functional Nerve Regeneration by Inhibition of Microtubule Detyrosination**  
Philipp Gobrecht, Anastasia Andreadaki, Heike Diekmann, Annemarie Heskamp, Marco Leibinger, and Dietmar Fischer
- 4080 **Re-Establishment of Cortical Motor Output Maps and Spontaneous Functional Recovery via Spared Dorsolaterally Projecting Corticospinal Neurons after Dorsal Column Spinal Cord Injury in Adult Mice**  
Brett J. Hilton, Eitan Anenberg, Thomas C. Harrison, Jamie D. Boyd, Timothy H. Murphy, and Wolfram Tetzlaff

#### SYSTEMS/CIRCUITS

- 3903 **A Motion-from-Form Mechanism Contributes to Extracting Pattern Motion from Plaids**  
Christian Quaia, Lance M. Optican, and Bruce G. Cumming

- 3925 **Synaptic Correlates of Low-Level Perception in V1**  
Florian Gerard-Mercier, Pedro V. Carelli, Marc Pananceau, Xoana G. Troncoso, and Yves Frégnac
- 3988 **Extracellular Molecular Markers and Soma Size of Inhibitory Neurons: Evidence for Four Subtypes of GABAergic Cells in the Inferior Colliculus**  
Nichole L. Beebe, Jesse W. Young, Jeffrey G. Mellott, and Brett R. Schofield
- 4000 **Brain-Wide Maps of Synaptic Input to Cortical Interneurons**  
Nicholas R. Wall, Mauricio De La Parra, Jordan M. Sorokin, Hiroki Taniguchi, Z. Josh Huang, and Edward M. Callaway
- 4121 **Inferring Cortical Variability from Local Field Potentials**  
Yuwei Cui, Liu D. Liu, James M. McFarland, Christopher C. Pack, and Daniel A. Butts

#### BEHAVIORAL/COGNITIVE

- 3919 **Compensatory Neural Activity in Response to Cognitive Fatigue**  
Chao Wang, Amy Trongnetrpunya, Immanuel Babu Henry Samuel, Mingzhou Ding, and Benzi M. Kluger
- 3978 **Brain Signal Variability Differentially Affects Cognitive Flexibility and Cognitive Stability**  
Diana J. N. Armbruster-Genç, Kai Ueltzhöffer, and Christian J. Fiebach
- 4038 **Individual Differences in Cognitive Control Circuit Anatomy Link Sensation Seeking, Impulsivity, and Substance Use**  
Avram J. Holmes, Marisa O. Hollinshead, Joshua L. Roffman, Jordan W. Smoller, and Randy L. Buckner
- 4050 **Toward Semantics in the Wild: Activation to Manipulable Nouns in Naturalistic Reading**  
Rutvik H. Desai, Wonil Choi, Vicky T. Lai, and John M. Henderson
- 4056 **Dynamics of the Human Structural Connectome Underlying Working Memory Training**  
Karen Caeyenberghs, Claudia Metzler-Baddeley, Sonya Foley, and Derek K. Jones
- 4067 **Monkey Prefrontal Neurons Reflect Logical Operations for Cognitive Control in a Variant of the AX Continuous Performance Task (AX-CPT)**  
Rachael K. Blackman, David A. Crowe, Adele L. DeNicola, Sofia Sakellaridi, Angus W. MacDonald, III, and Matthew V. Chafee

#### NEUROBIOLOGY OF DISEASE

- 3943 **Partial Raphe Dysfunction in Neurotransmission Is Sufficient to Increase Mortality after Anoxic Exposures in Mice at a Critical Period in Postnatal Development**  
Karlene T. Barrett, Ryan T. Dosumu-Johnson, J. Andrew Daubenspeck, Rachael D. Brust, Vasileios Kreouzis, Jun Chul Kim, Aihua Li, Susan M. Dymecki, and Eugene E. Nattie
- 3954 **BAZ1B in Nucleus Accumbens Regulates Reward-Related Behaviors in Response to Distinct Emotional Stimuli**  
HaoSheng Sun, Jennifer A. Martin, Craig T. Werner, Zi-Jun Wang, Diane M. Damez-Werno, Kimberly N. Scobie, Ning-Yi Shao, Caroline Dias, Jacqui Rabkin, Ja Wook Koo, Amy M. Gancarz, Ezekiel A. Mouzon, Rachael L. Neve, Li Shen, David M. Dietz, and Eric J. Nestler

- 4093 **Episodic Social Stress-Escalated Cocaine Self-Administration: Role of Phasic and Tonic Corticotropin Releasing Factor in the Anterior and Posterior Ventral Tegmental Area**  
Elizabeth N. Holly, Christopher O. Boyson, Sandra Montagud-Romero, Dirson J. Stein, Kyle L. Gobrogge, Joseph F. DeBold, and Klaus A. Miczek
- 4136 **Correction:** The article “Neuronal Transgene Expression in Dominant-Negative SNARE Mice” by Takumi Fujita, Michael J. Chen, Baoman Li, Nathan A. Smith, Weiguo Peng, Wei Sun, Michael J. Toner, Benjamin T. Kress, Linhui Wang, Abdellatif Benraiss, Takahiro Takano, Su Wang, and Maiken Nedergaard, appeared on pages 16594–16604 of the December 10, 2014 issue. A correction for this article appears on pages 4136–4137.
- 4138 **Retraction:** The article “SIRT1 Protects against  $\alpha$ -Synuclein Aggregation by Activating Molecular Chaperones” by Gizem Donmez, Anirudh Arun, Chee-Yeun Chung, Pamela J. McLean, Susan Lindquist, and Leonard Guarente, which appeared on pages 124–132 of the January 4, 2012 issue. A retraction for this article appears on page 4138.
- 

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/misc/itoa.shtml>. 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; fax, 202-962-4945; e-mail, [jn@sfn.org](mailto:jn@sfn.org).