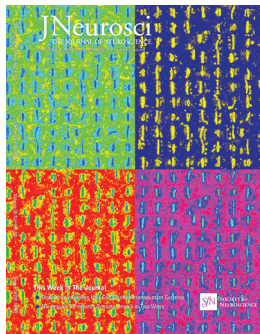


JNeurosci

THE JOURNAL OF NEUROSCIENCE

December 16, 2015 • Volume 35 Number 50 • www.jneurosci.org



Cover legend: These synapses in mouse somatosensory cortex were stained with ethanolic phosphotungstic acid for electron microscopy. Synapses were identified using a machine-learning algorithm to enable a high-throughput analysis of experience-dependent changes in synapse properties across the cortical column. For this image, candidate synapses were selected from electron micrographs and aligned, then pseudocolored for contrast. Image credit: Saket Navlakha and Alison Barth. Image credit: Saket Navlakha and Alison L. Barth. For more information, see the article by Chandrasekaran et al. (pages 16450–16462).

i This Week in The Journal

Journal Club

- 16297 Global and Specific Motor Inhibitory Mechanisms during Action Preparation**
Caroline Quoilin and Gerard Derosiere
- 16300 The Neural Mechanisms of Bayesian Belief Updating**
Daniel Bennett

Brief Communications

- 16398 The Occipital Face Area Is Causally Involved in Facial Viewpoint Perception**
Tim C. Kietzmann, Sonia Poltoratski, Peter König, Randolph Blake, Frank Tong, and Sam Ling
- 16516 Causal Role of Motor Simulation in Turn-Taking Behavior**
Lauren V. Hadley, Giacomo Novembre, Peter E. Keller, and Martin J. Pickering

Articles

CELLULAR/MOLECULAR

- 16377 A Novel Mechanism of pH Buffering in *C. elegans* Glia: Bicarbonate Transport via the Voltage-Gated ClC Cl⁻ Channel CLH-1**
Jeff Grant, Cristina Matthewman, and Laura Bianchi
- 16404 Differential Regulation of Action Potential Shape and Burst-Frequency Firing by BK and Kv2 Channels in Substantia Nigra Dopaminergic Neurons**
Tilia Kimm, Zayd M. Khaliq, and Bruce P. Bean
- 16494 Dopamine Modulates the Activity of Sensory Hair Cells**
Cecilia Toro, Josef G. Trapani, Italia Pacentine, Reo Maeda, Lavinia Sheets, Weike Mo, and Teresa Nicolson

DEVELOPMENT/PLASTICITY/REPAIR

- 16431 Role of IL-10 in Resolution of Inflammation and Functional Recovery after Peripheral Nerve Injury**
Bruno Siqueira Mietto, Antje Kroner, Elizabeth I. Girolami, Eva Santos-Nogueira, Ji Zhang, and Samuel David

- 16450 **Unbiased, High-Throughput Electron Microscopy Analysis of Experience-Dependent Synaptic Changes in the Neocortex**
Santosh Chandrasekaran, Saket Navlakha, Nicholas J. Audette, Dylan D. McCreary, Joe Suhan, Ziv Bar-Joseph, and Alison L. Barth
- 16479 **Bidirectional Signaling of Neuregulin-2 Mediates Formation of GABAergic Synapses and Maturation of Glutamatergic Synapses in Newborn Granule Cells of Postnatal Hippocampus**
Kyu-Hee Lee, Hyunsu Lee, Che Ho Yang, Jeong-Soon Ko, Chang-Hwan Park, Ran-Sook Woo, Joo Yeon Kim, Woong Sun, Joung-Hun Kim, Won-Kyung Ho, and Suk-Ho Lee
- 16531 **Lin28B and Let-7 in the Control of Sympathetic Neurogenesis and Neuroblastoma Development**
Melanie Hennchen, Jutta Stubbusch, Ikram Abarchan-El Makhfi, Marco Kramer, Thomas Deller, Cécile Pierre-Eugene, Isabelle Janoueix-Lerosey, Olivier Delattre, Uwe Ernsterberger, Johannes B. Schulte, and Hermann Rohrer

SYSTEMS/CIRCUITS

- 16303 **Heading Tuning in Macaque Area V6**
Reuben H. Fan, Sheng Liu, Gregory C. DeAngelis, and Dora E. Angelaki
- 16315 **Acetylcholine from Visual Circuits Modulates the Activity of Arousal Neurons in *Drosophila***
Nara I. Muraro and M. Fernanda Ceriani

BEHAVIORAL/COGNITIVE

- 16328 **Intertrial Variability in the Premotor Cortex Accounts for Individual Differences in Peripersonal Space**
Francesca Ferri, Marcello Costantini, Zirui Huang, Mauro Gianni Perrucci, Antonio Ferretti, Gian Luca Romani, and Georg Northoff
- 16362 **Sex Differences in Nucleus Accumbens Transcriptome Profiles Associated with Susceptibility versus Resilience to Subchronic Variable Stress**
Georgia E. Hodes, Madeline L. Pfau, Immanuel Purushothaman, H. Francisca Ahn, Sam A. Golden, Daniel J. Christoffel, Jane Magida, Anna Brancato, Aki Takahashi, Meghan E. Flanigan, Caroline Ménard, Hossein Aleyasin, Ja Wook Koo, Zachary S. Lorsch, Jian Feng, Mitra Heshmati, Minghui Wang, Gustavo Turecki, Rachel Neve, Bin Zhang, Li Shen, Eric J. Nestler, and Scott J. Russo
- 16521 **Neural Estimates of Imagined Outcomes in Basolateral Amygdala Depend on Orbitofrontal Cortex**
Federica Lucantonio, Matthew P.H. Gardner, Aaron Mirenski, Laura E. Newman, Yuji K. Takahashi, and Geoffrey Schoenbaum
- 16545 **Fbxo3-Dependent Fbxl2 Ubiquitination Mediates Neuropathic Allodynia through the TRAF2/TNIK/GluR1 Cascade**
Tzer-Bin Lin, Ming-Chun Hsieh, Cheng-Yuan Lai, Jen-Kun Cheng, Yat-Pang Chau, Ting Ruan, Gin-Den Chen, and Hsien-Yu Peng

NEUROBIOLOGY OF DISEASE

- 16340 **Corticostriatal Divergent Function in Determining the Temporal and Spatial Properties of Motor Tics**
Michal Israelashvili and Izhar Bar-Gad
- 16352 **Perceptual Integration Deficits in Autism Spectrum Disorders Are Associated with Reduced Interhemispheric Gamma-Band Coherence**
Ina Peiker, Nicole David, Till R. Schneider, Guido Nolte, Daniel Schöttle, and Andreas K. Engel

- 16418** **Cholinergic Neurotransmission in the Posterior Insular Cortex Is Altered in Preclinical Models of Neuropathic Pain: Key Role of Muscarinic M2 Receptors in Donepezil-Induced Antinociception**
Jérémy Ferrier, Mathilde Bayet-Robert, Romain Dalmann, Abderrahim El Guerrab, Youssef Aissouni, Danielle Graveron-Demilly, Maryse Chalus, Jérémy Pinguet, Alain Eschalier, Damien Richard, Laurence Daulhac, Fabien Marchand, and David Balayssac
- 16443** **Long Noncoding RNA FosDT Promotes Ischemic Brain Injury by Interacting with REST-Associated Chromatin-Modifying Proteins**
Suresh L. Mehta, TaeHee Kim, and Raghu Vemuganti
- 16463** **Selective VIP Receptor Agonists Facilitate Immune Transformation for Dopaminergic Neuroprotection in MPTP-Intoxicated Mice**
Katherine E. Olson, Lisa M. Kosloski-Bilek, Kristi M. Anderson, Breha J. Diggs, Barbara E. Clark, John M. Gledhill Jr, Scott J. Shandler, R. Lee Mosley, and Howard E. Gendelman
- 16504** **miR-155-3p Drives the Development of Autoimmune Demyelination by Regulation of Heat Shock Protein 40**
Marcin P. Mycko, Maria Cichalewska, Hanna Cwiklinska, and Krzysztof W. Selmaj
- 16561** **Correction:** The article “Engagement of the GABA to KCC2 Signaling Pathway Contributes to the Analgesic Effects of A₃AR Agonists in Neuropathic Pain”, by Amanda Ford, Annie Castonguay, Martin Cottet, Joshua W. Little, Zhoumou Chen, Ashley M. Symons-Liguori, Timothy Doyle, Terrance M. Egan, Todd W. Vanderah, Yves De Koninck, Dilip K. Tosh, Kenneth A. Jacobson, and Daniela Salvemini, appeared on pages 6057–6067 of the April 15, 2015 issue. A correction for this article appears on page 16561.
-

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.

Brief Communications Instructions for Authors are available via Internet (http://www.jneurosci.org/misc/ifa_bc.shtml).

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.