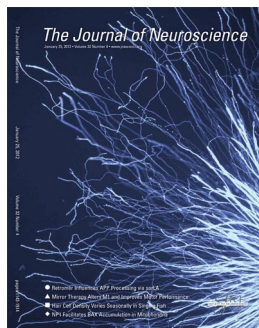


The Journal of Neuroscience

January 25, 2012 • Volume 32 Number 4 • www.jneurosci.org



Cover legend: Explant culture from mouse superior mesenteric ganglion grown on a collagen gel in the presence of nerve growth factor and interleukin 17A. Extending axons are revealed by β_3 -tubulin immunoreactivity. For more information, see the article by Chisholm et al. in this issue (pages 1146–1155).

i This Week in The Journal

Journal Club

- 1143 **Examining the Expectation Deficit in Normal Aging**
Hannah L. Pincham, Clare Killikelly, Laura Vuillier, and Alan J. Power

Brief Communications

- 1360 **Phosphorylation of CRMP2 (Collapsin Response Mediator Protein 2) Is Involved in Proper Dendritic Field Organization**
Naoya Yamashita, Toshio Ohshima, Fumio Nakamura, Papachan Kolattukudy, Jérôme Honnorat, Katsuhiko Mikoshiba, and Yoshio Goshima
- 1377 **Early Exposure to Alcohol Leads to Permanent Impairment of Dendritic Excitability in Neocortical Pyramidal Neurons**
Alberto Granato, Lucy M. Palmer, Andrea De Giorgio, Daniela Taviani, and Matthew E. Larkum
- 1408 **The Head of the Table: Marking the “Front” of An Object Is Tightly Linked with Selection**
Yangqing Xu and Steven L. Franconeri
- 1447 **Novelty Detection in the Human Auditory Brainstem**
Lavinia Slabu, Sabine Grimm, and Carles Escera
- 1507 **The Frequency of Visually Induced Gamma-Band Oscillations Depends on the Size of Early Human Visual Cortex**
D. Samuel Schwarzkopf, David J. Robertson, Chen Song, Gareth R. Barnes, and Geraint Rees

Articles

CELLULAR/MOLECULAR

- 1233 **Cytosolic Calcium Coordinates Mitochondrial Energy Metabolism with Presynaptic Activity**
Amit K. Chouhan, Maxim V. Ivannikov, Zhongmin Lu, Mutsuyuki Sugimori, Rodolfo R. Llinas, and Gregory T. Macleod
- 1253 **Calcium Binding by Synaptotagmin’s C₂A Domain is an Essential Element of the Electrostatic Switch That Triggers Synchronous Synaptic Transmission**
Amelia R. Striegel, Laurie M. Biela, Chantell S. Evans, Zhao Wang, Jillian B. Delehoy, R. Bryan Sutton, Edwin R. Chapman, and Noreen E. Reist
- 1261 **Similar Intracellular Ca²⁺ Requirements for Inactivation and Facilitation of Voltage-Gated Ca²⁺ Channels in a Glutamatergic Mammalian Nerve Terminal**
Kun-Han Lin, Emilio Erazo-Fischer, and Holger Taschenberger

- 1301 **Kainate Receptor-Induced Retrograde Inhibition of Glutamatergic Transmission in Vasopressin Neurons**
Valérie D. J. Bonfardin, Dionysia T. Theodosis, Arthur Konnerth, and Stéphane H. R. Oliet
- 1311 **Ca_v2.1 in Cerebellar Purkinje Cells Regulates Competitive Excitatory Synaptic Wiring, Cell Survival, and Cerebellar Biochemical Compartmentalization**
Taisuke Miyazaki, Miwako Yamasaki, Kouichi Hashimoto, Maya Yamazaki, Manabu Abe, Hiroshi Usui, Masanobu Kano, Kenji Sakimura, and Masahiko Watanabe
- 1336 **The α 1K276E Startle Disease Mutation Reveals Multiple Intermediate States in the Gating of Glycine Receptors**
Remigijus Lape, Andrew J. R. Plested, Mirko Moroni, David Colquhoun, and Lucia G. Sivillotti
- 1383 **Time of Day Regulates Subcellular Trafficking, Tripartite Synaptic Localization, and Polyadenylation of the Astrocytic Fabp7 mRNA**
Jason R. Gerstner, William M. Vanderheyden, Timothy LaVaute, Cara J. Westmark, Labib Rouhana, Allan I. Pack, Marv Wickens, and Charles F. Landry
- 1429 **Gustatory Receptors Required for Avoiding the Insecticide L-Canavanine**
Youngseok Lee, Min Jung Kang, Jaewon Shim, Chae Uk Cheong, Seok Jun Moon, and Craig Montell
- 1467 **Retromer Binds the FANSHY Sorting Motif in SorLA to Regulate Amyloid Precursor Protein Sorting and Processing**
Anja W. Fjorback, Matthew Seaman, Camilla Gustafsen, Arnela Mehmedbasic, Suzanne Gokool, Chengbiao Wu, Daniel Miltz, Vanessa Schmidt, Peder Madsen, Jens R. Nyengaard, Thomas E. Willnow, Erik Ilsø Christensen, William B. Mobley, Anders Nykjær, and Olav M. Andersen
- 1496 **Concentration-Dependent Requirement for Local Protein Synthesis in Motor Neuron Subtype-Specific Response to Axon Guidance Cues**
Stéphane Nédelec, Mirza Peljto, Peng Shi, Mackenzie W. Amoroso, Lance C. Kam, and Hynek Wichterle

DEVELOPMENT/PLASTICITY/REPAIR

- 1146 **Interleukin-17A Increases Neurite Outgrowth from Adult Postganglionic Sympathetic Neurons**
Susan P. Chisholm, Andrea L. Cervi, Simrin Nagpal, and Alan E. Lomax
- 1156 **Renshaw Cells and Ia Inhibitory Interneurons Are Generated at Different Times from p1 Progenitors and Differentiate Shortly after Exiting the Cell Cycle**
Ana Benito-Gonzalez and Francisco J. Alvarez
- 1183 **Increased Excitatory Synaptic Input to Granule Cells from Hilar and CA3 Regions in a Rat Model of Temporal Lobe Epilepsy**
Wei Zhang, John R. Huguenard, and Paul S. Buckmaster
- 1197 **Defective Retinal Vascular Endothelial Cell Development As a Consequence of Impaired Integrin α V β 8-Mediated Activation of Transforming Growth Factor- β**
Thomas D. Arnold, Gina M. Ferrero, Haiyan Qiu, Isabella T. Phan, Rosemary J. Akhurst, Eric J. Huang, and Louis F. Reichardt
- 1207 **α 4* Nicotinic Acetylcholine Receptors Modulate Experience-Based Cortical Depression in the Adult Mouse Somatosensory Cortex**
Craig E. Brown, Danielle Sweetnam, Maddie Beange, Patrick C. Nahirney, and Raad Nashmi

- 1293 **Human Motor Plasticity Induced by Mirror Visual Feedback**
Ippei Nojima, Tatsuya Mima, Satoko Koganemaru, Mohamed Nasreldin Thabit, Hidenao Fukuyama, and Toshio Kawamata
- 1436 **Wandering Neuronal Migration in the Postnatal Vertebrate Forebrain**
Benjamin B. Scott, Timothy Gardner, Ni Ji, Michale S. Fee, and Carlos Lois

BEHAVIORAL/SYSTEMS/COGNITIVE

- 1171 **Looming Signals Reveal Synergistic Principles of Multisensory Integration**
Céline Cappe, Antonia Thelen, Vincenzo Romei, Gregor Thut, and Micah M. Murray
- 1220 **Encoding of Coordinated Reach and Grasp Trajectories in Primary Motor Cortex**
Maryam Saleh, Kazutaka Takahashi, and Nicholas G. Hatsopoulos
- 1244 **Distinct Roles for Specific Leptin Receptor Signals in the Development of Hypothalamic Feeding Circuits**
Sebastien G. Bouret, Sarah H. Bates, Stephen Chen, Martin G. Myers Jr, and Richard B. Simerly
- 1284 **Causal Interactions in Attention Networks Predict Behavioral Performance**
Xiaotong Wen, Li Yao, Yijun Liu, and Mingzhou Ding
- 1329 **Modulation of Frontostriatal Interaction Aligns with Reduced Primary Reward Processing under Serotonergic Drugs**
Birgit Abler, Georg Grön, Antonie Hartmann, Coraline Metzger, and Martin Walter
- 1366 **Saccular-Specific Hair Cell Addition Correlates with Reproductive State-Dependent Changes in the Auditory Saccular Sensitivity of a Vocal Fish**
Allison B. Coffin, Robert A. Mohr, and Joseph A. Sisneros
- 1395 **The Amplitude and Timing of the BOLD Signal Reflects the Relationship between Local Field Potential Power at Different Frequencies**
Cesare Magri, Ulrich Schridde, Yusuke Murayama, Stefano Panzeri, and Nikos K. Logothetis
- 1413 **Single Neuron Firing Properties Impact Correlation-Based Population Coding**
Sungho Hong, Stéphanie Ratté, Steven A. Prescott, and Erik De Schutter
- 1481 **Event-Related Nociceptive Arousal Enhances Memory Consolidation for Neutral Scenes**
Ulrike Schwarze, Ulrike Bingel, and Tobias Sommer
- 1488 **Stress-Induced Activation of the Dynorphin/ κ -Opioid Receptor System in the Amygdala Potentiates Nicotine Conditioned Place Preference**
Jeffrey S. Smith, Abigail G. Schindler, Emma Martinelli, Richard M. Gustin, Michael R. Bruchas, and Charles Chavkin

NEUROBIOLOGY OF DISEASE

- 1273 **Transgenic Expression of Intraneuronal $A\beta_{42}$ But Not $A\beta_{40}$ Leads to Cellular $A\beta$ Lesions, Degeneration, and Functional Impairment without Typical Alzheimer's Disease Pathology**
Dorothee Abramowski, Sabine Rabe, Ajeet Rijal Upadhaya, Julia Reichwald, Simone Danner, Dieter Staab, Estibaliz Capetillo-Zarate, Haruyasu Yamaguchi, Takaomi C. Saido, Karl-Heinz Wiederhold, Dietmar Rudolf Thal, and Matthias Staufenbiel

- 1353 **Higher Binding of the Dopamine D₃ Receptor-Preferring Ligand [¹¹C]-(+)-Propyl-Hexahydro-Naphtho-Oxazin in Methamphetamine Polydrug Users: A Positron Emission Tomography Study**
Isabelle Boileau, Doris Payer, Sylvain Houle, Arian Behzadi, Pablo M. Rusjan, Junchao Tong, Diana Wilkins, Peter Selby, Tony P. George, Martin Zack, Yoshiaki Furukawa, Tina McCluskey, Alan A. Wilson, and Stephen J. Kish
- 1453 **NP1 Regulates Neuronal Activity-Dependent Accumulation of BAX in Mitochondria and Mitochondrial Dynamics**
Kevin B. Clayton, Petar Podlesniy, Joana Figueiro-Silva, Guillermo López-Doménech, Lluís Benítez, Marta Enguita, Maria A. Abad, Eduardo Soriano, and Ramon Trullas
- 1513 **Correction:** The article “Inhibition of Notch Activity Promotes Nonmitotic Regeneration of Hair Cells in the Adult Mouse Utricles” by Vincent Lin, Justin S. Golub, Tot Bui Nguyen, Clifford R. Hume, Elizabeth C. Oesterle, and Jennifer S. Stone originally appeared on pages 15329–15339 of the October 26, 2011 issue. A correction to that article appears on page 1513.

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.