

**Cover legend:** This image shows a macaque retina immunostained for the voltage-gated potassium channel subunit,  $K_v2.2$  (green), red/green-cone opsin (red), and blue cone opsin (blue). The  $K_v2$  channel subunits interacts with the  $K_v8.2$  modifier subunit in photoreceptor inner segments where they underlie a potassium current important for normal photoreceptor function. For more information see the article by Gayet-Primo et al. (pages 3414–3427).

i This Week in The Journal

## Editorial

- 3375 Analytical Transparency and Reproducibility in Human Neuroimaging Studies

## Viewpoints

- 3377 Excreted Steroids in Vertebrate Social Communication  
Wayne I. Doyle and Julian P. Meeks

## Journal Club

- 3388 c-Jun in Schwann Cells: Stay Away from Extremes  
Gianluca Figlia
- 3391 A Dynamical System Framework for Theorizing Preparatory Inhibition  
Gerard Derosiere

## Research Articles

### CELLULAR/MOLECULAR

- 3394 Swedish Nerve Growth Factor Mutation ( $NGF^{R100W}$ ) Defines a Role for TrkA and p75<sup>NTR</sup> in Nociception  
Kijung Sung, Luiz F. Ferrari, Wanlin Yang, ChiHye Chung, Xiaobei Zhao, Yingli Gu, Suzhen Lin, Kai Zhang, Bianxiao Cui, Matthew L. Pearn, Michael T. Maloney, William C. Mobley, Jon D. Levine, and Chengbiao Wu
- 3466 Glutathione Conjugation at the Blood–CSF Barrier Efficiently Prevents Exposure of the Developing Brain Fluid Environment to Blood-Borne Reactive Electrophilic Substances  
Ingrid Kratzer, Nathalie Strazielle, Elodie Saudrais, Kati Mönkkönen, Céline Malleval, Sandrine Blondel, and Jean-François Ghersi-Egea
- 3480  $\beta$ -Secretase BACE1 Promotes Surface Expression and Function of Kv3.4 at Hippocampal Mossy Fiber Synapses  
Stephanie Hartmann, Fang Zheng, Michele C. Kyncl, Sandra Karch, Kerstin Voelkl, Benedikt Zott, Carla D'Avanzo, Selene Lomoio, Giuseppina Tesco, Doo Y. Kim, Christian Alzheimer, and Tobias Huth

- 3571 **Cereblon Maintains Synaptic and Cognitive Function by Regulating BK Channel**  
Tae-Yong Choi, Seung-Hyun Lee, Yoon-Jung Kim, Jae Ryul Bae, Kwang Min Lee, Youhwa Jo, Soo-Jeong Kim, A-Ram Lee, Sekyu Choi, La-Mee Choi, Sunhoe Bang, Mi-Ryoung Song, Jongkyeong Chung, Kyung Jin Lee, Sung Hyun Kim, Chul-Seung Park, and Se-Young Choi

#### DEVELOPMENT/PLASTICITY/REPAIR

- 3453 **Development of the Mechanisms Governing Midbrain Multisensory Integration**  
Cristiano Cuppini, Barry E. Stein, and Benjamin A. Rowland
- 3559 **The Integration of Functional Brain Activity from Adolescence to Adulthood**  
Prantik Kundu, Brenda E. Benson, Dana Rosen, Sophia Frangou, Ellen Leibenluft, Wen-Ming Luh, Peter A. Bandettini, Daniel S. Pine, and Monique Ernst

#### SYSTEMS/CIRCUITS

- 3414 **Heteromeric  $K_v2/K_v8.2$  Channels Mediate Delayed Rectifier Potassium Currents in Primate Photoreceptors**  
Jacqueline Gayet-Primo, Daniel B. Yaeger, Roupen A. Khanjian, and Teresa Puthussery
- 3441 **Attention Selectively Gates Afferent Signal Transmission to Area V4**  
Iris Grothe, David Rotermund, Simon David Neitzel, Sunita Mandon, Udo Alexander Ernst, Andreas K. Kreiter, and Klaus Richard Pawelzik
- 3495 **Can Serial Dependencies in Choices and Neural Activity Explain Choice Probabilities?**  
Jan-Matthis Lueckmann, Jakob H. Macke, and Hendrikje Nienborg
- 3584 **Role of Rostral Fastigial Neurons in Encoding a Body-Centered Representation of Translation in Three Dimensions**  
Christophe Z. Martin, Jessica X. Brooks, and Andrea M. Green

#### BEHAVIORAL/COGNITIVE

- 3428 **The Sync/deSync Model: How a Synchronized Hippocampus and a Desynchronized Neocortex Code Memories**  
George Parish, Simon Hanslmayr, and Howard Bowman
- 3507 **Choice for Drug or Natural Reward Engages Largely Overlapping Neuronal Ensembles in the Infralimbic Prefrontal Cortex**  
Simone Pfarr, Laura Schaaf, Janine K. Reinert, Elisabeth Paul, Frank Herrmannsdörfer, Martin Roßmanith, Thomas Kuner, Anita C. Hansson, Rainer Spanagel, Christoph Körber, and Wolfgang H. Sommer
- 3534 **Domain-General and Domain-Specific Patterns of Activity Supporting Metacognition in Human Prefrontal Cortex**  
Jorge Morales, Hakwan Lau, and Stephen M. Fleming
- 3547 **Coordinated Ramping of Dorsal Striatal Pathways preceding Food Approach and Consumption**  
Tanisha D. London, Julia A. Licholai, Ilona Szczot, Mohamed A. Ali, Kimberly H. LeBlanc, Wambura C. Fobbs, and Alexxai V. Kravitz
- 3603 **Role of the 5-HT<sub>2A</sub> Receptor in Self- and Other-Initiated Social Interaction in Lysergic Acid Diethylamide-Induced States: A Pharmacological fMRI Study**  
Katrin H. Preller, Leonhard Schilbach, Thomas Pokorny, Jan Flemming, Erich Seifritz, and Franz X. Vollenweider

## NEUROBIOLOGY OF DISEASE

### 3520 TRPM2 Channel Aggravates CNS Inflammation and Cognitive Impairment via Activation of Microglia in Chronic Cerebral Hypoperfusion

Jun Miyanohara, Masashi Kakaie, Kazuki Nagayasu, Takayuki Nakagawa, Yasuo Mori, Ken Arai, Hisashi Shirakawa, and Shuji Kaneko

---

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).