



**Cover legend:** This illustration shows olfactory white matter pathways of the canine. For more information, see the article by Andrews et al. (pages 6392–6407).  
Cover image: Philippa Johnson and Erica Andrews.

## 6309 This Week in The Journal

### Journal Club

- 6310 Is the Dorsolateral Prefrontal Cortex Actually Several Different Brain Areas?**  
Aarit Ahuja and Nadira Yusif Rodriguez

### Research Articles

#### CELLULAR/MOLECULAR

- 6313 Cannabinoid 1 and mu-Opioid Receptor Agonists Synergistically Inhibit Abdominal Pain and Lack Side Effects in Mice**  
Yang Yu, Quentin K. Tsang, Josue Jaramillo-Polanco, Alan E. Lomax, Stephen J. Vanner, and David E. Reed
- 6325 T-Type Ca<sup>2+</sup> Channels Boost Neurotransmission in Mammalian Cone Photoreceptors**  
Adam Davison, Uwe Thorsten Lux, Johann Helmut Brandstätter, and Norbert Babai
- 6344 DYRK1A Regulates the Bidirectional Axonal Transport of APP in Human-Derived Neurons**  
Iván Fernandez Bessone, Jordi Navarro, Emanuel Martinez, Karina Karmirian, Mariana Holubiec, Matias Alloatti, Livia Goto-Silva, Cayetana Arnaiz Yopez, Daniel Martins-de-Souza, Juliana Minardi Nascimento, Luciana Bruno, Trinidad M. Saez, Stevens K. Rehen, and Tomás L. Falzone

#### DEVELOPMENT/PLASTICITY/REPAIR

- 6359 V1-Origin Bidirectional Plasticity in Visual Thalamo–Ventral Pathway and Its Contribution to Saliency Detection of Dynamic Visual Inputs**  
Shang Feng, Zhichang Cui, Zhengqi Han, Hongjian Li, and Hongbo Yu

#### SYSTEMS/CIRCUITS

- 6380 Monkey Prefrontal Single-Unit Activity Reflecting Category-Based Logical Thinking Process and Its Neural Network Model**  
Takayuki Hosokawa, Muyuan Xu, Yuichi Katori, Munekazu Yamada, Kazuyuki Aihara, and Ken-Ichiro Tsutsui
- 6392 Extensive Connections of the Canine Olfactory Pathway Revealed by Tractography and Dissection**  
Erica F. Andrews, Raluca Pascalau, Alexandra Horowitz, Gillian M. Lawrence, and Philippa J. Johnson
- 6408 Task Context Modulates Feature-Selective Responses in Area V4**  
Dina V. Popovkina and Anitha Pasupathy

## BEHAVIORAL/COGNITIVE

**6424 Reward Enhances Memory via Age-Varying Online and Offline Neural Mechanisms across Development**

Alexandra O. Cohen, Morgan M. Glover, Xinxu Shen, Camille V. Phaneuf, Kristen N. Avallone, Lila Davachi, and Catherine A. Hartley

**6435 Experiencing Surprise: The Temporal Dynamics of Its Impact on Memory**

Darya Frank, Alex Kafkas, and Daniela Montaldi

**6445 A Role for the Anterior Hippocampus in Autobiographical Memory Construction Regardless of Temporal Distance**

Sam Audrain, Adrian W. Gilmore, Jenna M. Wilson, Daniel L. Schacter, and Alex Martin

## NEUROBIOLOGY OF DISEASE

**6453 Genetic Mapping of APP and Amyloid- $\beta$  Biology Modulation by Trisomy 21**

Paige Mumford, Justin Tosh, Silvia Anderle, Eleni Gkanatsiou Wikberg, Gloria Lau, Sue Noy, Karen Cleverley, Takashi Saito, Takaomi C. Saido, Eugene Yu, Gunnar Brinkmalm, Erik Portelius, Kaj Blennow, Henrik Zetterberg, Victor Tybulewicz, Elizabeth M.C. Fisher, and Frances K. Wiseman

**6469 Increased Reliability of Visually-Evoked Activity in Area V1 of the MECP2-Duplication Mouse Model of Autism**

Ryan T. Ash, Ganna Palagina, Jose A. Fernandez-Leon, Jiyoung Park, Rob Seilheimer, Sangkyun Lee, Jasdeep Sabharwal, Fredy Reyes, Jing Wang, Dylan Lu, Muhammad Sarfraz, Emmanouil Froudarakis, Andreas S. Tolias, Samuel M. Wu, and Stelios M. Smirnakis

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