



**Cover legend:** This image shows a region of spiral ganglion neuron cell bodies and peripheral processes from the cochlea of a P1 Map2EGFP (green) mouse. Neurons are also labeled with an antibody against neuron-specific beta tubulin III (red). (pages 5284–5298).

## 5243 This Week in The Journal

### Journal Club

- 5244 **Human REM Sleep Delta Waves and the Blurring Distinction between NREM and REM Sleep**  
Jesse J. Langille

### Research Articles

#### CELLULAR/MOLECULAR

- 5247 **H3.3 Barcoding of Nucleus Accumbens Transcriptional Activity Identifies Novel Molecular Cascades Associated with Cocaine Self-administration in Mice**  
Mathieu E. Wimmer, Bruno Fant, Sarah E. Swinford-Jackson, Alexander Testino, Duncan Van Nest, Ted Abel, and R. Christopher Pierce
- 5255 **Lysosomal Dysfunction in Down Syndrome Is APP-Dependent and Mediated by APP- $\beta$ CTF (C99)**  
Ying Jiang, Yutaka Sato, Eunju Im, Martin Berg, Matteo Bordi, Sandipkumar Darji, Asok Kumar, Panaiyur S. Mohan, Urmi Bandyopadhyay, Antonio Diaz, Ana Maria Cuervo, and Ralph A. Nixon
- 5269 **Transcriptional Regulation of the Glutamate/GABA/Glutamine Cycle in Adult Glia Controls Motor Activity and Seizures in *Drosophila***  
David Mazaud, Benjamin Kottler, Catarina Gonçalves-Pimentel, Sandra Proelss, Nadine Tüchler, Celine Deneubourg, Yoshihiro Yuasa, Celine Diebold, Heinz Jungbluth, Eric C. Lai, Frank Hirth, Angela Giangrande, and Manolis Fanto

#### DEVELOPMENT/PLASTICITY/REPAIR

- 5284 **Pou4f1 Defines a Subgroup of Type I Spiral Ganglion Neurons and Is Necessary for Normal Inner Hair Cell Presynaptic  $Ca^{2+}$  Signaling**  
Hanna E. Sherrill, Philippe Jean, Elizabeth C. Driver, Tessa R. Sanders, Tracy S. Fitzgerald, Tobias Moser, and Matthew W. Kelley

#### SYSTEMS/CIRCUITS

- 5299 **Deletion of Autism Risk Gene Shank3 Disrupts Prefrontal Connectivity**  
Marco Pagani, Alice Bertero, Adam Liska, Alberto Galbusera, Mara Sabbioni, Noemi Barsotti, Nigel Colenbier, Daniele Marinazzo, Maria Luisa Scattoni, Massimo Pasqualetti, and Alessandro Gozzi
- 5311 **Topographic Organization of the 'Third-Tier' Dorsomedial Visual Cortex in the Macaque**  
Kostas Hadjidimitrakis, Sophia Bakola, Tristan A. Chaplin, Hsin-Hao Yu, Omar Alanazi, Jonathan M. Chan, Katrina H. Worthy, and Marcello G.P. Rosa
- 5326 **Increased Neural Activity in Mesostriatal Regions after Prefrontal Transcranial Direct Current Stimulation and *l*-DOPA Administration**  
Benjamin Meyer, Caroline Mann, Manuela Götz, Anna Gerlicher, Victor Saase, Kenneth S.L. Yuen, Felipe Aedo-Jury, Gabriel Gonzalez-Escamilla, Albrecht Stroh, and Raffael Kalisch

## BEHAVIORAL/COGNITIVE

- 5336 **Ventromedial Prefrontal Cortex Tracks Multiple Environmental Variables during Search**  
Priyanka S. Mehta, Jiaxin Cindy Tu, Giuliana A. LoConte, Meghan C. Pesce, and Benjamin Y. Hayden
- 5351 **Spaced Learning Enhances Episodic Memory by Increasing Neural Pattern Similarity Across Repetitions**  
Kanyin Feng, Xiao Zhao, Jing Liu, Ying Cai, Zhifang Ye, Chuansheng Chen, and Gui Xue
- 5361 **Localization of Phonological and Semantic Contributions to Reading**  
J. Vivian Dickens, Mackenzie E. Fama, Andrew T. DeMarco, Elizabeth H. Lacey, Rhonda B. Friedman, and Peter E. Turkeltaub
- 5369 **Pupil-Linked Arousal Responds to Unconscious Surprisal**  
Andrea Alamia, Rufin VanRullen, Emanuele Pasqualotto, André Mouraux, and Alexandre Zenon

## NEUROBIOLOGY OF DISEASE

- 5377 **Context-Specific Switch from Anti- to Pro-epileptogenic Function of the P2Y<sub>1</sub> Receptor in Experimental Epilepsy**  
Mariana Alves, Laura De Diego Garcia, Giorgia Conte, Eva M. Jimenez-Mateos, Beatrice D'Orsi, Amaya Sanz-Rodriguez, Jochen H.M. Prehn, David C. Henshall, and Tobias Engel
- 5393 **Mouse Strain and Sex-Dependent Differences in Long-term Behavioral Abnormalities and Neuropathologies after Developmental Zika Infection**  
Abigail Snyder-Keller, Laura D. Kramer, Steven Zink, and Valerie J. Bolivar
- 5404 **PMP22 Regulates Cholesterol Trafficking and ABCA1-Mediated Cholesterol Efflux**  
Ye Zhou, Joshua R. Miles, Hagai Tavori, Min Lin, Habibeh Khoshbouei, David R. Borchelt, Hannah Bazick, Gary E. Landreth, Sooyeon Lee, Sergio Fazio, and Lucia Notterpek
- 5419 **Erratum:** The article "DAMP Signaling Is a Key Pathway Inducing Immune Modulation after Brain Injury" by Arthur Liesz, Alexander Dalpke, Eva Mracsko, Daniel J. Antoine, Stefan Roth, Wei Zhou, Huan Yang, Shin-Young Na, Mustafa Akhisaroglu, Thomas Fleming, Tatjana Eigenbrod, Peter P. Nawroth, Kevin J. Tracey, and Roland Veltkamp, appeared on pages 583–598 of the January 14, 2015 issue. An erratum for this article appears on p. 5419.
- 5420 **Erratum:** The article "Identified Serotonergic Modulatory Neurons Have Heterogeneous Synaptic Connectivity within the Olfactory System of *Drosophila*," by Kaylynn E. Coates, Adam T. Majot, Xiaonan Zhang, Cole T. Michael, Stacy L. Spitzer, Quentin Gaudry, and Andrew M. Dacks, appeared on pages 7318–7331 of the August 2, 2017 issue. An erratum for this article appears on p. 5420.

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