



**Cover legend:** This picture shows overlaid images of two 24-day-old fluorescently-labeled cultured hippocampal neurons. Presynaptic and postsynaptic neurons were labeled with distinct fluorophores. Gated STED super-resolution microscopy allowed analysis of the transsynaptic role of presynaptic  $\alpha_2\delta$ -2 on axon wiring and postsynaptic GABA<sub>A</sub>-receptor clustering. For more information see the article by Geisler et al. (pages 2581–2605).

## 2573 This Week in The Journal

### Journal Club

- 2574 **Dnmt3a2 in the Nucleus Accumbens Shell Mediates Cue-Induced Cocaine-Seeking Behavior**  
Elad Lax and Daniel M. Sapochnikov
- 2577 **Cellular Specificity of Cortico-Thalamic Loops for Motor Planning**  
David P. Collins and Paul G. Anastasiades

### Research Articles

#### CELLULAR/MOLECULAR

- 2581 **Presynaptic  $\alpha_2\delta$ -2 Calcium Channel Subunits Regulate Postsynaptic GABA<sub>A</sub> Receptor Abundance and Axonal Wiring**  
Stefanie Geisler, Clemens L. Schöpf, Ruslan Stanika, Marcus Kalb, Marta Campiglio, Daniele Repetto, Larissa Traxler, Markus Missler, and Gerald J. Obermair
- 2606 **A Multiple Piccolino-RIBEYE Interaction Supports Plate-Shaped Synaptic Ribbons in Retinal Neurons**  
Tanja M. Müller, Kaspar Gierke, Annela Joachimsthaler, Heinrich Sticht, Zsuzsanna Izsvák, F. Kent Hamra, Anna Fejtová, Frauke Ackermann, Craig C. Garner, Jan Kremers, Johann H. Brandstätter, and Hanna Regus-Leidig
- 2620 **Heterogeneity of Activity-Induced Sodium Transients between Astrocytes of the Mouse Hippocampus and Neocortex: Mechanisms and Consequences**  
Daniel Ziemens, Franziska Oschmann, Niklas J. Gerkau, and Christine R. Rose

#### DEVELOPMENT/PLASTICITY/REPAIR

- 2635 **Vesicular GABA Transporter Is Necessary for Transplant-Induced Critical Period Plasticity in Mouse Visual Cortex**  
Rashi Priya, Benjamin Rakela, Megumi Kaneko, Julien Spatazza, Philip Larimer, Mahmood S. Hoseini, Andrea R. Hasenstaub, Arturo Alvarez-Buylla, and Michael P. Stryker

#### SYSTEMS/CIRCUITS

- 2649 **Chronic Suppression of Glucagon-Like Peptide-1 Receptor (GLP1R) mRNA Translation in the Rat Bed Nucleus of the Stria Terminalis Reduces Anxiety-Like Behavior and Stress-Induced Hypophagia, But Prolongs Stress-Induced Elevation of Plasma Corticosterone**  
Huiyuan Zheng, David J. Reiner, Matthew R. Hayes, and Linda Rinaman

2664 **Going with the Flow: The Neural Mechanisms Underlying Illusions of Complex-Flow Motion**  
Junxiang Luo, Keyan He, Ian Max Andolina, Xiaohong Li, Jiapeng Yin, Zheyuan Chen, Yong Gu, and Wei Wang

2686 **Regional Delta Waves In Human Rapid Eye Movement Sleep**  
Giulio Bernardi, Monica Betta, Emiliano Ricciardi, Pietro Pietrini, Giulio Tononi, and Francesca Siclari

#### BEHAVIORAL/COGNITIVE

2698 **Subthalamic Nucleus and Sensorimotor Cortex Activity During Speech Production**  
Anna Chrabaszcz, Wolf-Julian Neumann, Otilia Stretcu, Witold J. Lipski, Alan Bush, Christina A. Dastolfo-Hromack, Dengyu Wang, Donald J. Crammond, Susan Shaiman, Michael W. Dickey, Lori L. Holt, Robert S. Turner, Julie A. Fiez, and R. Mark Richardson

2709 **Eye Position Error Influence over “Open-Loop” Smooth Pursuit Initiation**  
Antimo Buonocore, Julianne Skinner, and Ziad M. Hafed

2722 **Noradrenergic  $\alpha$ 1-Adrenoceptor Actions in the Primate Dorsolateral Prefrontal Cortex**  
Dibyadeep Datta, Sheng-Tao Yang, Veronica C. Galvin, John Solder, Fei Luo, Yury M. Morozov, Jon Arellano, Alvaro Duque, Pasko Rakic, Amy F.T. Arnsten, and Min Wang

2735 **Dopaminergic Mechanisms Underlying Normal Variation in Trait Anxiety**  
Anne S. Berry, Robert L. White III, Daniella J. Furman, Jenna R. Naskolnakorn, Vyoma D. Shah, Mark D’Esposito, and William J. Jagust

2745 **Increased Alcohol-Drinking Induced by Manipulations of mGlu5 Phosphorylation within the Bed Nucleus of the Stria Terminalis**  
Rianne R. Campbell, Racquel D. Domingo, Amy R. Williams, Melissa G. Wroten, Hadley A. McGregor, Ryan S. Waltermire, Daniel I. Greentree, Scott P. Goulding, Andrew B. Thompson, Kaziya M. Lee, Sema G. Quadir, C. Leonardo Jimenez Chavez, Michal A. Coelho, Adam T. Gould, Georg von Jonquieres, Matthias Klugmann, Paul F. Worley, Tod E. Kippin, and Karen K. Szumlinski

#### NEUROBIOLOGY OF DISEASE

2762 **mTOR Hyperactivity Levels Influence the Severity of Epilepsy and Associated Neuropathology in an Experimental Model of Tuberous Sclerosis Complex and Focal Cortical Dysplasia**  
Lena H. Nguyen, Travorn Mahadeo, and Angélique Bordey

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