



**Cover legend:** This image depicts proliferating supporting cells (yellow) in an eight-day-old mouse utricle, a balance organ of the inner ear, that was cultured for seven days with Epidermal Growth Factor and an inhibitor of Glycogen Synthase Kinase 3. Green labels Yes-associated protein, and red depicts  $\beta^2$ -catenin. For more information, see the article by Kozłowski et al. (pages 2618–2632).

## 2589 This Week in The Journal

### Journal Club

- 2590 **Local Cortical Circuit Features Arise in Networks Optimized for Associative Memory Storage**  
Jiaqi Shang

### Research Articles

#### CELLULAR/MOLECULAR

- 2593 **Synaptic Plasticity Depends on the Fine-Scale Input Pattern in Thin Dendrites of CA1 Pyramidal Neurons**  
Ádám Magó, Jens P. Weber, Balázs B. Ujfalussy, and Judit K. Makara
- 2606 **Doc2 Proteins Are Not Required for the Increased Spontaneous Release Rate in Synaptotagmin-1-Deficient Neurons**  
Rocío Díez-Arazola, Marieke Meijer, Quentin Bourgeois-Jaarsma, L. Niels Cornelisse, Matthijs Verhage, and Alexander J. Groffen

#### DEVELOPMENT/PLASTICITY/REPAIR

- 2618 **EGF and a GSK3 Inhibitor Deplete Junctional E-cadherin and Stimulate Proliferation in the Mature Mammalian Ear**  
Mikolaj M. Kozłowski, Mark A. Rudolf, and Jeffrey T. Corwin
- 2633 **Cortical and Subcortical Effects of Transcutaneous Spinal Cord Stimulation in Humans with Tetraplegia**  
Francisco D. Benavides, Hang Jin Jo, Henrik Lundell, V. Reggie Edgerton, Yuri Gerasimenko, and Monica A. Perez
- 2644 **Astrocytic YAP Promotes the Formation of Glia Scars and Neural Regeneration after Spinal Cord Injury**  
Changnan Xie, Xiya Shen, Xingxing Xu, Huitao Liu, Fayi Li, Sheng Lu, Ziran Gao, Jingjing Zhang, Qian Wu, Danlu Yang, Xiaomei Bao, Fan Zhang, Shiyang Wu, Zhaoting Lv, Minyu Zhu, Dingjun Xu, Peng Wang, Liying Cao, Wei Wang, Zengqiang Yuan, Ying Wang, Zhaoyun Li, Honglin Teng, and Zhihui Huang

#### SYSTEMS/CIRCUITS

- 2663 **Area-Specific Synapse Structure in Branched Posterior Nucleus Axons Reveals a New Level of Complexity in Thalamocortical Networks**  
Javier Rodriguez-Moreno, Cesar Porrero, Astrid Rollenhagen, Mario Rubio-Teves, Diana Casas-Torremocha, Lidia Alonso-Nanclares, Rachida Yakoubi, Andrea Santuy, Angel Merchan-Pérez, Javier DeFelipe, Joachim H.R. Lübke, and Francisco Clasca

- 2680 **Neurotransmitters and Motoneuron Contacts of Multifunctional and Behaviorally Specialized Turtle Spinal Cord Interneurons**  
B. Anne Bannatyne, Zhao-Zhe Hao (郝赵哲), Georgia M. C. Dyer, Masahiko Watanabe, David J. Maxwell, and Ari Berkowitz
- 2695 **Methamphetamine Learning Induces Persistent and Selective Nonmuscle Myosin II-Dependent Spine Motility in the Basolateral Amygdala**  
Erica J. Young, Hua Lin, Theodore M. Kamenecka, Gavin Rumbaugh, and Courtney A. Miller
- 2708 **Representational Neural Mapping of Dexterous Grasping Before Lifting in Humans**  
Michelle Marneweck and Scott T. Grafton

#### BEHAVIORAL/COGNITIVE

- 2717 **Covert Spatial Attention Speeds Target Individuation**  
Joshua J. Foster, Emma M. Bsales, and Edward Awh
- 2727 **Distance and Direction Codes Underlie Navigation of a Novel Semantic Space in the Human Brain**  
Simone Viganò and Manuela Piazza
- 2737 **Desire or Dread from Nucleus Accumbens Inhibitions: Reversed by Same-Site Optogenetic Excitations**  
Hannah M. Baumgartner, Shannon L. Cole, Jeffrey J. Olney, and Kent C. Berridge
- 2753 **Contrast Normalization Accounts for Binocular Interactions in Human Striate and Extra-striate Visual Cortex**  
Chuan Hou, Spero C. Nicholas, and Preeti Verghese

#### NEUROBIOLOGY OF DISEASE

- 2764 **Interneuron Desynchronization Precedes Seizures in a Mouse Model of Dravet Syndrome**  
Conny H. Tran, Michael Vaiana, Johan Nakuci, Ala Somarowthu, Kevin M. Goff, Nitsan Goldstein, Priya Murthy, Sarah F. Muldoon, and Ethan M. Goldberg
- 2776 **ROCK/PKA Inhibition Rescues Hippocampal Hyperexcitability and GABAergic Neuron Alterations in a Oligophrenin-1 Knock-Out Mouse Model of X-Linked Intellectual Disability**  
Irene Busti, Manuela Allegra, Cristina Spalletti, Chiara Panzi, Laura Restani, Pierre Billuart, and Matteo Caleo

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