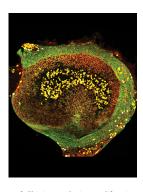


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Cover legend: This image depicts proliferating supporting cells (yellow) in an eight-day-old mouse utricle, a balance organ of the inner ear, that was cultured for seven days with Epidermal Growth Factor and an inhibitor of Glycogen Synthase Kinase 3. Green labels Yes-assoicated protein, and red depicts 1²-catenin. For more information, see the article by Kozlowski et al. (pages 2618 – 2632).

This Week in The Journal

Iournal Club

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

Research Articles

CELLULAR/MOLECULAR

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

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

EGF and a GSK3 Inhibitor Deplete Junctional E-cadherin and Stimulate Proliferation in the Mature Mammalian Ear

Mikolaj M. Kozlowski, Mark A. Rudolf, and Jeffrey T. Corwin

Cortical and Subcortical Effects of Transcutaneous Spinal Cord Stimulation in 2633 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

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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