



Cover legend: This image shows a cross section of a day 28 human forebrain organoid, showing FOXG1-expressing neural precursors (Red), surrounding a ventricle-like structure outlined by N-Cadherin staining (Green). DAPI staining is blue. For more information, see the Dual Perspectives article by Tian et al. (pages 1186–1193)

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Dual Perspectives

- 1176 **Integrating CRISPR Engineering and hiPSC-Derived 2D Disease Modeling Systems**
Kristina Rehbach, Michael B. Fernando, and Kristen J. Brennand
- 1186 **Studying Human Neurodevelopment and Diseases Using 3D Brain Organoids**
Ai Tian, Julien Muffat, and Yun Li

Journal Club

- 1194 **Oxytocin-Sensitive Neurons in Prefrontal Cortex Gate Social Recognition Memory**
Tara Raam

Research Articles

CELLULAR/MOLECULAR

- 1197 **Mimicking Age-Associated Gadd45 γ Dysregulation Results in Memory Impairments in Young Adult Mice**
David V.C. Brito, Janina Kupke, Kubra Gulmez Karaca, Benjamin Zeuch, and Ana M.M. Oliveira
- 1211 **Gamma Visual Stimulation Induces a Neuroimmune Signaling Profile Distinct from Acute Neuroinflammation**
Kristie M. Garza, Lu Zhang, Ben Borron, Levi B. Wood, and Annabelle C. Singer

DEVELOPMENT/PLASTICITY/REPAIR

- 1226 **Brain-Derived Neurotrophic Factor Has a Transsynaptic Trophic Effect on Neural Activity in an Adult Forebrain Circuit**
Kimberly E. Miller, William E. Wood, Eliot A. Brenowitz, and David J. Perkel
- 1232 **Midkine-a Is Required for Cell Cycle Progression of Müller Glia during Neuronal Regeneration in the Vertebrate Retina**
Mikiko Nagashima, Travis S. D’Cruz, Antoinette E. Danku, Doneen Hesse, Christopher Sifuentes, Pamela A. Raymond, and Peter F. Hitchcock
- 1248 **Grafting Embryonic Raphe Neurons Reestablishes Serotonergic Regulation of Sympathetic Activity to Improve Cardiovascular Function after Spinal Cord Injury**
Shaoping Hou, Tatiana M. Saltos, Eugene Mironets, Cameron T. Trueblood, Theresa M. Connors, and Veronica J. Tom

- 1265 **A Multidimensional Neural Maturation Index Reveals Reproducible Developmental Patterns in Children and Adolescents**
Monica Truelove-Hill, Guray Erus, Vishnu Bashyam, Erdem Varol, Chiharu Sako, Ruben C. Gur, Raquel E. Gur, Nikolaos Koutsouleris, Chuanjun Zhuo, Yong Fan, Daniel H. Wolf, Theodore D. Satterthwaite, and Christos Davatzikos

SYSTEMS/CIRCUITS

- 1276 **Projection-Specific Potentiation of Ventral Pallidal Glutamatergic Outputs after Abstinence from Cocaine**
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- 1286 **Neuronal Activity in the Primate Amygdala during Economic Choice**
Ahmad Jezzini and Camillo Padoa-Schioppa
- 1302 **Electrical Coupling of Heterotypic Ganglion Cells in the Mammalian Retina**
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BEHAVIORAL/COGNITIVE

- 1311 **Task-Free Functional Language Networks: Reproducibility and Clinical Application**
Giovanni Battistella, Valentina Borghesani, Maya Henry, Wendy Shwe, Michael Lauricella, Zachary Miller, Jessica Deleon, Bruce L. Miller, Nina Dronkers, Simona M. Brambati, William W. Seeley, Maria Luisa Mandelli, and Maria Luisa Gorno-Tempini
- 1321 **Cocaine Dysregulates Dynorphin Modulation of Inhibitory Neurotransmission in the Ventral Pallidum in a Cell-Type-Specific Manner**
Kineret Inbar, Liran A. Levi, Nimrod Bernat, Tal Odesser, Dorrit Inbar, and Yonatan M. Kupchik
- 1332 **The Nucleus Accumbens Core Is Necessary for Responding to Incentive But Not Instructive Stimuli**
Mehdi Sicre, Julie Meffre, Didier Louber, and Frederic Ambroggi

NEUROBIOLOGY OF DISEASE

- 1344 **Calcineurin Promotes Neuroplastic Changes in the Amygdala Associated with Weakened Cocaine-Cue Memories**
Matthew T. Rich, Yanhua H. Huang, and Mary M. Torregrossa
- 1355 **ICAM5 as a Novel Target for Treating Cognitive Impairment in Fragile X Syndrome**
Ya-ping Pei, Yue-yi Wang, Dan Liu, Hui-yang Lei, Zhi-hao Yang, Zi-wei Zhang, Man Han, Ke Cheng, Yu-shan Chen, Jin-quan Li, Gui-rong Cheng, Lang Xu, Qing-ming Wu, Shawn M. McClintock, Ying Yang, Yong Zhang, and Yan Zeng
- 1366 **Erratum:** The article “Enhancement of BDNF Expression and Memory by HDAC Inhibition Requires BET Bromodomain Reader Proteins,” by Gregory C. Sartor, Andrea M. Malvezzi, Ashok Kumar, Nadja S. Andrade, Hannah J. Wiedner, Samantha J. Vilca, Karolina J. Janczura, Amir Bagheri, Hassan Al-Ali, Samuel K. Powell, Peyton T. Brown, Claude H. Volmar, Thomas C. Foster, Zane Zeier, and Claes Wahlestedt, published online on January 23, 2019. An erratum for this article appears on page 1366.

1367 **Erratum:** The article “Representational organization of novel task sets during proactive encoding,” by Ana F. Palenciano, Carlos González-García, Juan E. Arco, Luiz Pessoa, and Maria Ruz, appeared on pages 8386 – 8397 of the October 16, 2019 issue. An erratum for this article appears on page 1367.

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