



Cover legend: This image shows taste buds with glial-like cells (white) ensheathing chemosensory receptor cells labeled with GFP (green). Afferent fibers are labeled with mScarlet (red). These three elements (receptor cell, nerve fiber, and glia) potentially form a tripartite synapse, capable of modulating the sensory signal in the taste periphery. For more information see the article by Rodriguez et al. (pages 9860–9871). Cover image: Andoni Asencor and Yuryanni Rodriguez.

9859 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 9860 “Tripartite Synapses” in Taste Buds: A Role for Type I Glial-like Taste Cells**
Yuryanni A. Rodriguez, Jennifer K. Roebber, Gennady Dvoryanchikov, Vivien Makhoul, Stephen D. Roper, and Nirupa Chaudhari
- 9872 Sustained ErbB Activation Causes Demyelination and Hypomyelination by Driving Necroptosis of Mature Oligodendrocytes and Apoptosis of Oligodendrocyte Precursor Cells**
Xu Hu, Guanxiu Xiao, Li He, Xiaojie Niu, Huashun Li, Tianjie Lou, Qianqian Hu, Youguang Yang, Qi Xu, Zhengdong Wei, Mengsheng Qiu, Kenji F. Tanaka, Ying Shen, and Yanmei Tao

DEVELOPMENT/PLASTICITY/REPAIR

- 9891 Developmental Regulation of Homeostatic Plasticity in Mouse Primary Visual Cortex**
Wei Wen and Gina G. Turrigiano

SYSTEMS/CIRCUITS

- 9906 Evidence for Layer-Specific Connectional Heterogeneity in the Mouse Auditory Corticocollicular System**
Georgiy Yudintsev, Alexander R. Asilador, Stacy Sons, Nathiya Vaithiyalingam Chandra Sekaran, Macey Coppinger, Kavya Nair, Masumi Prasad, Gang Xiao, Bahar A. Ibrahim, Yoshitaka Shinagawa, and Daniel A. Llano
- 9919 Dynamic Rhythmogenic Network States Drive Differential Opioid Responses in the *In Vitro* Respiratory Network**
Nicholas J. Burgraff, Nicholas E. Bush, Jan M. Ramirez, and Nathan A. Baertsch

BEHAVIORAL/COGNITIVE

- 9932 Medial Entorhinal Cortex Excitatory Neurons Are Necessary for Accurate Timing**
Marcelo Dias, Raquel Ferreira, and Miguel Remondes
- 9944 A Precuneal Causal Loop Mediates External and Internal Information Integration in the Human Brain**
Dian Lyu, Ioannis Pappas, David K. Menon, and Emmanuel A. Stamatakis
- 9957 Long-Range Respiratory and Theta Oscillation Networks Depend on Spatial Sensory Context**
Andrew Sheriff, Guinevere Pandolfi, Vivian S. Nguyen, and Leslie M. Kay

NEUROBIOLOGY OF DISEASE

- 9971 Maternal Immune Activation during Pregnancy Alters Postnatal Brain Growth and Cognitive Development in Nonhuman Primate Offspring**
Roza M. Vlasova, Ana-Maria Iosif, Amy M. Ryan, Lucy H. Funk, Takeshi Murai, Shuai Chen, Tyler A. Lesh, Douglas J. Rowland, Jeffrey Bennett, Casey E. Hogrefe, Richard J. Maddock, Michael J. Gandal, Daniel H. Geschwind, Cynthia M. Schumann, Judy Van de Water, A. Kimberley McAllister, Cameron S. Carter, Martin A. Styner, David G. Amaral, and Melissa D. Bauman
- 9988 Contralateral Projection of Anterior Cingulate Cortex Contributes to Mirror-Image Pain**
Su-Wan Hu, Qi Zhang, Sun-Hui Xia, Wei-Nan Zhao, Qi-Ze Li, Jun-Xia Yang, Shuming An, Hai-Lei Ding, Hongxing Zhang, and Jun-Li Cao
- 10004 Arcuate Nucleus Overexpression of NHLH2 Reduces Body Mass and Attenuates Obesity-Associated Anxiety/Depression-like Behavior**
Rodrigo S. Carraro, Guilherme A. Nogueira, Davi Sidarta-Oliveira, Rodrigo S. Gaspar, Nathalia R. Dragano, Joseane Morari, Vanessa C. D. Bobbo, Eliana P. Araujo, Natalia F. Mendes, Ariane M. Zanesco, Natalia Tobar, Celso D. Ramos, Jéssica M. Toscaro, Marcio C. Bajgelman, and Licio A. Velloso
- 10023 D₂-Like Receptor Expression in the Hippocampus and Amygdala Informs Performance on the Stop-Signal Task in Parkinson's Disease**
Leah G. Mann, Kaitlyn R. Hay, Alexander K. Song, Steven P. Errington, Paula Trujillo, David H. Zald, Yan Yan, Hakmook Kang, Gordon D. Logan, and Daniel O. Claassen
- 10031 *Erratum:*** The article "Axonal Degeneration Is Mediated by the Mitochondrial Permeability Transition Pore" by Sebastian A. Barrientos, Nicolas W. Martinez, Soonmoon Yoo, Juan S. Jara, Sebastian Zamorano, Claudio Hetz, Jeffery L. Twiss, Jaime Alvarez, and Felipe A. Court, appeared on pages 966–978 of the January 19, 2011 issue. An erratum for this article appears on page 10031.

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