



Cover legend: This image shows a horizontal section through an adult zebrafish brain. Ventricular ependymo-radial progenitor cells with typical long radial processes (green) and dopaminergic neurons (red) that derive from these cells can be seen in close proximity (rostral is up). For more information, see the article by Caldwell et al. (pages 4694–4713).

4631 This Week in The Journal

Journal Club

- 4632 **Interferon- γ as a Potential Link between Diabetes Mellitus and Dementia**
Danielle Cozachenco, Maria C. Selles, and Felipe C. Ribeiro

Research Articles

CELLULAR/MOLECULAR

- 4636 **PTCD1 Is Required for Mitochondrial Oxidative-Phosphorylation: Possible Genetic Association with Alzheimer's Disease**
Daniel Fleck, Lilian Phu, Erik Verschueren, Trent Hinkle, Mike Reichelt, Tushar Bhangale, Benjamin Haley, Yuanyuan Wang, Robert Graham, Donald S. Kirkpatrick, Morgan Sheng, and Baris Bingol
- 4657 **Cell-Type-Specific Regulation of Nucleus Accumbens Synaptic Plasticity and Cocaine Reward Sensitivity by the Circadian Protein, NPAS2**
Puja K. Parekh, Ryan W. Logan, Kyle D. Ketchesin, Darius Becker-Krail, Micah A. Shelton, Mariah A. Hildebrand, Kelly Barko, Yanhua H. Huang, and Colleen A. McClung
- 4668 **Sexually Dimorphic Regulation of Behavioral States by Dopamine in *Caenorhabditis elegans***
Satoshi Suo, Kazuki Harada, Shogo Matsuda, Koki Kyo, Min Wang, Kei Maruyama, Takeo Awaji, and Takashi Tsuboi

DEVELOPMENT/PLASTICITY/REPAIR

- 4684 **Reorganization of Recurrent Layer 5 Corticospinal Networks Following Adult Motor Training**
Jeremy S. Biane, Yoshio Takashima, Massimo Scanziani, James M. Conner, and Mark H. Tuszynski
- 4694 **Regeneration of Dopaminergic Neurons in Adult Zebrafish Depends on Immune System Activation and Differs for Distinct Populations**
Lindsey J. Caldwell, Nick O. Davies, Leonardo Cavone, Karolina S. Mysiak, Svetlana A. Semenova, Pertti Panula, J. Douglas Armstrong, Catherina G. Becker, and Thomas Becker
- 4714 **The Spinal Transcriptome after Cortical Stroke: In Search of Molecular Factors Regulating Spontaneous Recovery in the Spinal Cord**
Julia Kaiser, Martina Maibach, Iris Salpeter, Niels Hagenbuch, Vladimir B.C. de Souza, Mark D. Robinson, and Martin E. Schwab

SYSTEMS/CIRCUITS

- 4727 **Pedunculopontine Glutamatergic Neurons Provide a Novel Source of Feedforward Inhibition in the Striatum by Selectively Targeting Interneurons**
Maxime Assous, Daniel Dautan, James M. Tepper, and Juan Mena-Segovia
- 4738 **Single-Cell Membrane Potential Fluctuations Evince Network Scale-Freeness and Quasicriticality**
James K. Johnson, Nathaniel C. Wright, Ji Xià, and Ralf Wessel
- 4760 **Neural Coding for Shape and Texture in Macaque Area V4**
Taekjun Kim, Wyeth Bair, and Anitha Pasupathy

BEHAVIORAL/COGNITIVE

- 4775 **EEG Frontal Alpha Asymmetry and Dream Affect: Alpha Oscillations over the Right Frontal Cortex during REM Sleep and Presleep Wakefulness Predict Anger in REM Sleep Dreams**
Pilleriin Sikka, Antti Revonsuo, Valdas Noreika, and Katja Valli
- 4785 **Synaptic Depotential and mGluR5 Activity in the Nucleus Accumbens Drive Cocaine-Primed Reinstatement of Place Preference**
Michael A. Benneyworth, Matthew C. Hearing, Anders J. Asp, Aric Madayag, Anna E. Ingebretson, Clare E. Schmidt, Keelia A. Silvis, Erin B. Larson, Stephanie R. Ebner, and Mark J. Thomas

NEUROBIOLOGY OF DISEASE

- 4797 **Modulators of Kv3 Potassium Channels Rescue the Auditory Function of Fragile X Mice**
Lynda El-Hassar, Lei Song, Winston J.T. Tan, Charles H. Large, Giuseppe Alvaro, Joseph Santos-Sacchi, and Leonard K. Kaczmarek
- 4814 **AMPA Receptor Dysregulation and Therapeutic Interventions in a Mouse Model of CDKL5 Deficiency Disorder**
Madhumita Yennawar, Rachel S. White, and Frances E. Jensen
- 4829 **Spontaneous Recurrent Absence Seizure-like Events in Wild-Caught Rats**
Jeremy A. Taylor, Jon D. Reuter, Rebecca A. Kubiak, Toni T. Mufford, Carmen J. Booth, F. Edward Dudek, and Daniel S. Barth

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