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Cover legend: This image shows *qrfp*- (green) and *vasoactive intestinal polypeptide (vip)*-expressing neurons (red) in a larval zebrafish brain. The *qrfp*-expressing neurons have dense projections in the hypothalamus, sparse projections to the forebrain, and projections to the hindbrain that extend down the spinal cord. *vip* is expressed in several hypothalamic populations that do not colocalize with *qrfp*-expressing neurons. The accompanying video shows *qrfp* (green) and *hcrf* (red) in an adult brain. Blood vessels (yellow) and a region of the forebrain that was damaged during dissection (opaque yellow region) can also be observed. For more information, see the article by Chen, Chiu et al. (pages 1823–1840).



i This Week in The Journal

Journal Club

- 1791 **Does Correlated Firing Underlie Attention Deployment in Frontal Cortex?**
Moein Esghaei and Cheng Xue
- 1794 **Studying Mesodiencephalic Dopaminergic Neuron Development *In Vivo* to Improve Stem Cell Therapy in Parkinson's Disease**
Jesse V. Veenvliet

Brief Communications

- 1871 **Aerobic Glycolysis in the Frontal Cortex Correlates with Memory Performance in Wild-Type Mice But Not the APP/PS1 Mouse Model of Cerebral Amyloidosis**
Richard A. Harris, Lauren Tindale, Asad Lone, Olivia Singh, Shannon L. Macauley, Molly Stanley, David M. Holtzman, Robert Bartha, and Robert C. Cumming
- 1971 **Inactivation of the Dorsal Premotor Area Disrupts Internally Generated, But Not Visually Guided, Sequential Movements**
Machiko Ohbayashi, Nathalie Picard, and Peter L. Strick
- 2007 ***miR-124* Regulates the Phase of *Drosophila* Circadian Locomotor Behavior**
Yong Zhang, Pallavi Lamba, Peiyi Guo, and Patrick Emery
- 2068 **Increased Synchrony and Bursting of Dorsal Cochlear Nucleus Fusiform Cells Correlate with Tinnitus**
Calvin Wu, David T. Martel, and Susan E. Shore

Articles

CELLULAR/MOLECULAR

- 1914 **Shawn, the *Drosophila* Homolog of SLC25A39/40, Is a Mitochondrial Carrier That Promotes Neuronal Survival**
Jan R. Slabbaert, Sabine Kuenen, Jef Swerts, Ine Maes, Valerie Uytterhoeven, Jaroslaw Kasprzewicz, Ana Clara Fernandes, Ronny Blust, and Patrik Verstreken
- 1942 **Amiloride-Insensitive Salt Taste Is Mediated by Two Populations of Type III Taste Cells with Distinct Transduction Mechanisms**
Brian C. Lewandowski, Sunil K. Sukumaran, Robert F. Margolskee, and Alexander A. Bachmanov
- 2027 **Astrocytic GAP43 Induced by the TLR4/NF- κ B/STAT3 Axis Attenuates Astroglial-Mediated Microglial Activation and Neurotoxicity**
Chia-Chi Hung, Chun-Hua Lin, Hsuan Chang, Chen-Yu Wang, Shang-Hsuan Lin, Pei-Chien Hsu, Yu-Yo Sun, Teng-Nan Lin, Feng-Shiun Shie, Lung-Sen Kao, Chih-Ming Chou, and Yi-Hsuan Lee

DEVELOPMENT/PLASTICITY/REPAIR

- 2044 **Evidence That the Laminar Fate of LGE/CGE-Derived Neocortical Interneurons Is Dependent on Their Progenitor Domains**
Makio Torigoe, Kenta Yamauchi, Toshiya Kimura, Yo Uemura,
and Fujio Murakami

SYSTEMS/CIRCUITS

- 1841 **Interdigitated Color- and Disparity-Selective Columns within Human Visual Cortical Areas V2 and V3**
Shahin Nasr, Jonathan R. Polimeni, and Roger B.H. Tootell
- 1902 **Temporal Asymmetry in Dark–Bright Processing Initiates Propagating Activity across Primary Visual Cortex**
Sascha Rekauszke, Nora Nortmann, Robert Staadt, Howard S. Hock,
Gregor Schöner, and Dirk Jancke
- 1977 **Mind the Gap: Two Dissociable Mechanisms of Temporal Processing in the Auditory System**
Lucy A. Anderson and Jennifer F. Linden
- 2014 **Human Superior Temporal Gyrus Organization of Spectrotemporal Modulation Tuning Derived from Speech Stimuli**
Patrick W. Hullett, Liberty S. Hamilton, Nima Mesgarani, Christoph E. Schreiner,
and Edward F. Chang

BEHAVIORAL/COGNITIVE

- 1797 **Distinct Mechanisms for Distractor Suppression and Target Facilitation**
MaryAnn P. Noonan, Nika Adamian, Alexandra Pike, Frida Printzlau,
Ben M. Crittenden, and Mark G. Stokes
- 1808 **Age-Related Changes in Frontal Network Structural and Functional Connectivity in Relation to Bimanual Movement Control**
Hakuei Fujiyama, Jago Van Soom, Guy Rens, Jolien Gooijers, Inge Leunissen,
Oron Levin, and Stephan P. Swinnen
- 1823 **QRFP and Its Receptors Regulate Locomotor Activity and Sleep in Zebrafish**
Audrey Chen, Cindy N. Chiu, Eric A. Mosser, Sohini Kahn, Rory Spence,
and David A. Prober
- 1879 **Opposing Roles of Cholinergic and GABAergic Activity in the Insular Cortex and Nucleus Basalis Magnocellularis during Novel Recognition and Familiar Taste Memory Retrieval**
Gabriela Rodríguez-García and María Isabel Miranda
- 1954 **Frontostriatal White Matter Integrity Predicts Development of Delay of Gratification: A Longitudinal Study**
Michelle Achterberg, Jiska S. Peper, Anna C.K. van Duijvenvoorde,
René C.W. Mandl, and Eveline A. Crone
- 1996 **Multifaceted Contributions by Different Regions of the Orbitofrontal and Medial Prefrontal Cortex to Probabilistic Reversal Learning**
Gemma L. Dalton, Nena Y. Wang, Anthony G. Phillips, and Stan B. Floresco
- 2057 **Cholinergic Neurons in the Basal Forebrain Promote Wakefulness by Actions on Neighboring Non-Cholinergic Neurons: An Opto-Dialysis Study**
Janneke C. Zant, Tae Kim, Laszlo Prokai, Szabolcs Szarka, James McNally,
James T. McKenna, Charu Shukla, Chun Yang, Anna V. Kalinchuk,
Robert W. McCarley, Ritchie E. Brown, and Radhika Basheer

NEUROBIOLOGY OF DISEASE

- 1858 **Altered Trafficking and Processing of *GALC* Mutants Correlates with Globoid Cell Leukodystrophy Severity**
Daesung Shin, M. Laura Feltri, and Lawrence Wrabetz
- 1890 **Cell-Surface and Secreted Isoforms of CSF-1 Exert Opposing Roles in Macrophage-Mediated Neural Damage in Cx32-Deficient Mice**
Janos Groh, Ranu Basu, E. Richard Stanley, and Rudolf Martini
- 1930 **A β 40 Reduces P-Glycoprotein at the Blood–Brain Barrier through the Ubiquitin–Proteasome Pathway**
Anika M.S. Hartz, Yu Zhong, Andrea Wolf, Harry LeVine, III, David S. Miller, and Björn Bauer
- 1962 **β -Amyloid Deposition Is Associated with Decreased Right Prefrontal Activation during Task Switching among Cognitively Normal Elderly**
Hwamee Oh, Jason Steffener, Qolamreza R. Razlighi, Christian Habeck, Yaakov Stern
- 2074 **Correction:** The article “ α_1 F64 Residue at GABA_A Receptor Binding Site Is Involved in Gating by Influencing the Receptor Flipping Transitions”, by Marcin Szczot, Magdalena Kisiel, Marta M. Czyzewska, and Jerzy W. Mozrzymas, appeared on pages 3193–3209 of the February 26, 2014 issue. A correction for this article appears on page 2074.
- 2075 **Erratum:** The article “Passive or Active Immunization with Myelin Basic Protein Promotes Recovery from Spinal Cord Injury Contusion”, by Ehud Hauben, Oleg Butovsky, Uri Nevo, Eti Yoles, Gila Moalem, Eugenia Agranov, Felix Mor, Raya Leibowitz-Amit, Evgenie Pevsner, Solange Akselrod, Michal Neeman, Irun R. Cohen, and Michal Schwartz, appeared on pages 6421–6430 of the September 1, 2000 issue. An erratum for this article appears on page 2075.

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