



Cover legend: This is a hand painted canvas of the *Drosophila* larval central nervous system depicting the brain lobes and the ventral nerve cord. Red represents horseradish peroxidase (HRP) and green marks some motor neurons. See the article by Wang et al. (pages 1401–1417). Cover image: Purujit Chatterjee (McGovern Medical School, Houston, TX).

1365 This Week in The Journal

Journal Club

- 1366 **Sharp Wave Ripples in Alzheimer's Disease: In Search of Mechanisms**
Alberto Sanchez-Aguilera and Juan P. Quintanilla

Research Articles

CELLULAR/MOLECULAR

- 1371 **Retrograde Mitochondrial Transport Is Essential for Organelle Distribution and Health in Zebrafish Neurons**
Amrita Mandal, Hiu-Tung C. Wong, Katherine Pinter, Natalie Mosqueda, Alisha Beirl, Richa Madan Lomash, Sehoon Won, Katie S. Kindt, and Catherine M. Drerup
- 1393 **Differential Contribution of Cadm1–Cadm3 Cell Adhesion Molecules to Peripheral Myelinated Axons**
Natasha Sukhanov, Anya Vainshtein, Yael Eshed-Eisenbach, and Elior Peles

DEVELOPMENT/PLASTICITY/REPAIR

- 1401 **Structural and Functional Synaptic Plasticity Induced by Convergent Synapse Loss in the *Drosophila* Neuromuscular Circuit**
Yupu Wang, Meike Lobb-Rabe, James Ashley, Veera Anand, and Robert A. Carrillo
- 1418 **Evidence for Subcortical Plasticity after Paired Stimulation from a Wearable Device**
Maria Germann and Stuart N. Baker

SYSTEMS/CIRCUITS

- 1429 **An Angiotensin-Responsive Connection from the Lamina Terminalis to the Paraventricular Nucleus of the Hypothalamus Evokes Vasopressin Secretion to Increase Blood Pressure in Mice**
Charles J. Frazier, Scott W. Harden, Amy R. Alleyne, Mazher Mohammed, Wanhui Sheng, Justin A. Smith, Khalid Elsaafien, Eliot A. Spector, Dominique N. Johnson, Karen A. Scott, Eric G. Krause, and Annette D. de Kloet
- 1443 **Spatial and Temporal Arrangement of Recurrent Inhibition in the Primate Upper Limb**
Steve A. Edgley, Elizabeth R. Williams, and Stuart N. Baker

- 1455 **Laminar Origin of Corticostriatal Projections to the Motor Putamen in the Macaque Brain**
Elena Borra, Marianna Rizzo, Marzio Gerbella, Stefano Rozzi,
and Giuseppe Luppino
- 1470 **Functional Differentiation of Mouse Visual Cortical Areas Depends upon Early Binocular Experience**
Kirstie J. Salinas, Carey Y. L. Huh, Jack H. Zeitoun, and Sunil P. Gandhi
- 1489 **Photoreceptive Ganglion Cells Drive Circuits for Local Inhibition in the Mouse Retina**
Joseph Pottackal, Hannah L. Walsh, Pouyan Rahmani, Kathy Zhang,
Nicholas J. Justice, and Jonathan B. Demb

BEHAVIORAL/COGNITIVE

- 1505 **Memory Load Alters Perception-Related Neural Oscillations during Multisensory Integration**
Georgios Michail, Daniel Senkowski, Michael Niedeggen, and Julian Keil
- 1516 **Learning to Synchronize: Midfrontal Theta Dynamics during Rule Switching**
Pieter Verbeke, Kate Ergo, Esther De Loof, and Tom Verguts
- 1529 **Basal Ganglia Output Has a Permissive Non-Driving Role in a Signaled Locomotor Action Mediated by the Midbrain**
Sebastian Hormigo, Ji Zhou, Dorian Chabbert, Bharanidharan Shanmugasundaram,
and Manuel A. Castro-Alamancos
- 1553 **Granulocyte-Colony Stimulating Factor Reduces Cocaine-Seeking and Downregulates Glutamatergic Synaptic Proteins in Medial Prefrontal Cortex**
Rebecca S. Hofford, Tanner J. Euston, Rashaun S. Wilson, Katherine R. Meckel,
Emily G. Peck, Arthur Godino, Joseph A. Landry, Erin S. Calipari, TuKiet T. Lam,
and Drew D. Kiraly
- 1566 **Corticosterone Attenuates Reward-Seeking Behavior and Increases Anxiety via D2 Receptor Signaling in Ventral Tegmental Area Dopamine Neurons**
Beibei Peng, Qikuan Xu, Jing Liu, Sophie Guo, Stephanie L. Borgland,
and Shuai Liu
- 1582 **A Discrete Glycinergic Neuronal Population in the Ventromedial Medulla That Induces Muscle Atonia during REM Sleep and Cataplexy in Mice**
Shuntaro Uchida, Shingo Soya, Yuki C. Saito, Arisa Hirano, Keisuke Koga,
Makoto Tsuda, Manabu Abe, Kenji Sakimura, and Takeshi Sakurai

NEUROBIOLOGY OF DISEASE

- 1597 **Traumatic Brain Injury Causes Chronic Cortical Inflammation and Neuronal Dysfunction Mediated by Microglia**
Kristina G. Witcher, Chelsea E. Bray, Titikorn Chunchai, Fangli Zhao,
Shane M. O'Neil, Alan J. Gordillo, Warren A. Campbell, Daniel B. McKim,
Xiaoyu Liu, Julia E. Dziabis, Ning Quan, Daniel S. Eiferman, Andy J. Fischer,
Olga N. Kokiko-Cochran, Candice Askwith, and Jonathan P. Godbout
- 1617 **Erratum:** The article "Neurons in the Intermediate Reticular Nucleus Coordinate Post-Inspiratory Activity, Swallowing, and Respiratory-Sympathetic Coupling in the Rat," by Summan Toor, Qi-Jian Sun, Natasha Kumar, Sheng Le, Cara Hildreth, Jacqueline Phillips, and Simon McMullan, appeared in pages 9757–9766 of the December 4, 2019 issue. An erratum for this article appears on page 1617.

1618 *Erratum:* The article “Adult Hippocampal Neurogenesis along the Dorsoventral Axis Contributes Differentially to Environmental Enrichment Combined with Voluntary Exercise in Alleviating Chronic Inflammatory Pain in Mice,” by Jie Zheng, Ying-Ying Jiang, Ling-Chi Xu, Long-Yu Ma, Feng-Yu Liu, Shuang Cui, Jie Cai, Fei-Fei Liao, You Wan, and Ming Yi, appeared on pages 4145–4157 of the April 12, 2017 issue. An erratum for this article appears on page 1618.

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