



Cover legend: This image shows tracheal sensory neuron axons from the body and gustatory sensory axons from the head converging on the Subesophageal Zone (SEZ) in a *Drosophila* third instar larva CNS. A Gr28a-Gal4 line was used to drive fluorescent protein expression in specific sensory neurons for visualization. Immunostaining against Elav was used to visualize neuronal nuclei of the CNS. Sensory axons from terminal cone neurons labelled by the Gal4 line are excluded from this image. Image and art work courtesy of Sam Qian and Luke Hammond. (pages 2081–2093)

i This Week in The Journal

Progressions

- 1867 **The Development of Neuronal Polarity: A Retrospective View**
Gary Banker

Research Articles

CELLULAR/MOLECULAR

- 1973 **Deficient Surveillance and Phagocytic Activity of Myeloid Cells Within Demyelinated Lesions in Aging Mice Visualized by *Ex Vivo* Live Multiphoton Imaging**
Khalil S. Rawji, Janson Kappen, Weiwen Tang, Wulin Teo, Jason R. Plemel, Peter K. Stys, and V. Wee Yong
- 2069 **Serotonin Disinhibits a *Caenorhabditis elegans* Sensory Neuron by Suppressing Ca^{2+} -Dependent Negative Feedback**
Paul D.E. Williams, Jeffrey A. Zahratka, Matthew Rodenbeck, Jason Wanamaker, Hilary Linzie, and Bruce A. Bamber
- 2081 **Diversity of Internal Sensory Neuron Axon Projection Patterns Is Controlled by the POU-Domain Protein Pdm3 in *Drosophila* Larvae**
Cheng Sam Qian, Margarita Kaplow, Jennifer K. Lee, and Wesley B. Grueber

DEVELOPMENT/PLASTICITY/REPAIR

- 2000 **Visual Experience Facilitates BDNF-Dependent Adaptive Recruitment of New Neurons in the Postembryonic Optic Tectum**
Zachary J. Hall and Vincent Tropepe
- 2043 **Ephexin1 Is Required for Eph-Mediated Limb Trajectory of Spinal Motor Axons**
Chih-Ju Chang, Ming-Yuan Chang, Szu-Yi Chou, Chi-Chen Huang, Jian-Ying Chuang, Tsung-I Hsu, Hsing-Fang Chang, Yi-Hsin Wu, Chung-Che Wu, Daniel Morales, Artur Kania, and Tzu-Jen Kao

SYSTEMS/CIRCUITS

- 1874 **Local Corticotropin-Releasing Factor Signaling in the Hypothalamic Paraventricular Nucleus**
Zhiying Jiang, Shivakumar Rajamanickam, and Nicholas J. Justice
- 1915 **Dorsal Raphe Serotonin Neurons Mediate CO_2 -Induced Arousal from Sleep**
Haleigh R. Smith, Nicole K. Leibold, Daniel A. Rappoport, Callie M. Ginapp, Benton S. Purnell, Nicole M. Bode, Stephanie L. Alberico, Young-Cho Kim, Enrica Audero, Cornelius T. Gross, and Gordon F. Buchanan

- 1942 **Multimodal Encoding of Novelty, Reward, and Learning in the Primate Nucleus Basalis of Meynert**
Clarissa Martinez-Rubio, Angeliqne C. Paulk, Eric J. McDonald, Alik S. Widge, and Emad N. Eskandar
- 1989 **Aging Affects Adaptation to Sound-Level Statistics in Human Auditory Cortex**
Björn Herrmann, Burkhard Maess, and Ingrid S. Johnsrude
- 2015 **Eliminating Glutamatergic Input onto Horizontal Cells Changes the Dynamic Range and Receptive Field Organization of Mouse Retinal Ganglion Cells**
Sebastian Ströh, Christian Puller, Sebastian Swirski, Maj-Britt Hölzel, Lea I.S. van der Linde, Jasmin Segelken, Konrad Schultz, Christoph Block, Hannah Monyer, Klaus Willecke, Reto Weiler, Martin Greschner, Ulrike Janssen-Bienhold, and Karin Dedek
- 2094 **Cortical Neural Activity Predicts Sensory Acuity Under Optogenetic Manipulation**
John J. Briguglio, Mark Aizenberg, Vijay Balasubramanian, and Maria N. Geffen
- 2106 **Functional Segmentation of the Anterior Limb of the Internal Capsule: Linking White Matter Abnormalities to Specific Connections**
Ziad Safadi, Giorgia Grisot, Saad Jbabdi, Timothy E. Behrens, Sarah R. Heilbronner, Nicole C.R. McLaughlin, Joe Mandeville, Amelia Versace, Mary L. Phillips, Julia F. Lehman, Anastasia Yendiki, and Suzanne N. Haber

BEHAVIORAL/COGNITIVE

- 1891 **Transcranial Magnetic Stimulation over Left Inferior Frontal and Posterior Temporal Cortex Disrupts Gesture-Speech Integration**
Wanying Zhao, Kevin Riggs, Igor Schindler, and Henning Holle
- 1901 **Differential Contributions of Nucleus Accumbens Subregions to Cue-Guided Risk/Reward Decision Making and Implementation of Conditional Rules**
Stan B. Floresco, David R. Montes, Maric M.T. Tse, and Mieke van Holstein
- 1926 **Commonalities and Differences in the Substrates Underlying Consolidation of First- and Second-Order Conditioned Fear**
Belinda P.P. Lay, R. Frederick Westbrook, David L. Glanzman, and Nathan M. Holmes
- 2029 **Neurogenesis during Abstinence Is Necessary for Context-Driven Methamphetamine-Related Memory**
Melissa H. Galinato, Yoshio Takashima, McKenzie J. Fannon, Leon W. Quach, Roberto J. Morales Silva, Karthik K. Mysore, Michael J. Terranova, Rahul R. Dutta, Ryan W. Ostrom, Sucharita S. Somkuwar, and Chitra D. Mandyam
- 2057 **Single-Cell Stimulation in Barrel Cortex Influences Psychophysical Detection Performance**
Nouk Tanke, J. Gerard G. Borst, and Arthur R. Houweling

NEUROBIOLOGY OF DISEASE

- 1959 **Pronounced Hyperactivity, Cognitive Dysfunctions, and BDNF Dysregulation in Dopamine Transporter Knock-out Rats**
Damiana Leo, Ilya Sukhanov, Francesca Zoratto, Placido Illiano, Lucia Caffino, Fabrizio Sanna, Giulia Messa, Marco Emanuele, Alessandro Esposito, Mariia Dorofeikova, Evgeny A. Budygin, Liudmila Mus, Evgenia V. Efimova, Marco Niello, Stefano Espinoza, Tatyana D. Sotnikova, Marius C. Hoener, Giovanni Laviola, Fabio Fumagalli, Walter Adriani, and Raul R. Gainetdinov

2118 **Loss of eIF4E Phosphorylation Engenders Depression-like Behaviors via Selective mRNA Translation**

Inês S. Amorim, Sonal Kedia, Stella Kouloulia, Konstanze Simbriger, Ilse Gantois, Seyed Mehdi Jafarnejad, Yupeng Li, Agniete Kampaite, Tine Pooters, Nicola Romanò, and Christos G. Gkogkas

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