Cover legend: A planarian, Dugesia japonica, and its brain in the background showing serotonergic neurons (white), GABAergic neurons (green), dopaminergic neurons (magenta), and the other neurons (cyan). Planaria, poikilotherms possessing a sophisticated brain, show cryophilic thermotaxis involving brain serotonergic neurons that process thermosensory signals sensed by a member of the TRPM receptor family. For more details, see the article by Inoue et al. (pages 15701–15714).

**This Week in The Journal**

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15505 [Large-Scale Network Involvement in Language Processing](#)

Korey P. Wylie and Michael F. Regner

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15669 [In Vivo Identification of Eugenol-Responsive and Muscone-Responsive Mouse Odorant Receptors](#)

Timothy S. McClintock, Kaylin Adipietro, William B. Titlow, Patrick Breheny, Andreas Walz, Peter Mombaerts, and Hiroaki Matsunami

15689 [Swelling and Eicosanoid Metabolites Differentially Gate TRPV4 Channels in Retinal Neurons and Glia](#)

Daniel A. Ryskamp, Andrew O. Jo, Amber M. Frye, Felix Vazquez-Chona, Nanna MacAulay, Wallace B. Thoreson, and David Križaj

15764 [Oligodendrocyte Precursor Cell-Intrinsic Effect of Rheb1 Controls Differentiation and Mediates mTORC1-Dependent Myelination in Brain](#)

Yi Zou, Wanxiang Jiang, Jianqing Wang, Zhongping Li, Junyan Zhang, Jicheng Bu, Jia Zou, Liang Zhou, Shouyang Yu, Yiyuan Cui, Weiwei Yang, Liping Luo, Qing R. Lu, Yanhui Liu, Mina Chen, Paul F. Worley, and Bo Xiao

15779 [Netrin-G/NGL Complexes Encode Functional Synaptic Diversification](#)

Hiroshi Matsukawa, Sachiko Akiyoshi-Nishimura, Qi Zhang, Rafael Luján, Kazuhiko Yamaguchi, Hiromichi Goto, Kunio Yaguchi, Tsutomu Hashikawa, Chie Sano, Ryuichi Shigemoto, Toshiaki Nakashiba, and Shigeyoshi Itohara

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15793 Posttraining Ablation of Adult-Generated Olfactory Granule Cells Degrades Odor–Reward Memories
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**Thermosensory Signaling by TRPM Is Processed by Brain Serotonergic Neurons to Produce Planarian Thermotaxis**

Takeshi Inoue, Taiga Yamashita, and Kiyokazu Agata

**Transiently Increasing cAMP Levels Selectively in Hippocampal Excitatory Neurons during Sleep Deprivation Prevents Memory Deficits Caused by Sleep Loss**

Robbert Havekes, Vibeke M. Bruinenberg, Jennifer C. Tudor, Sarah L. Ferri, Arnd Baumann, Peter Meerlo, and Ted Abel

**Cholinergic Stimulation Enhances Bayesian Belief Updating in the Deployment of Spatial Attention**

Simone Vossel, Markus Bauer, Christoph Mathys, Rick A. Adams, Raymond J. Dolan, Klaas E. Stephan, and Karl J. Friston

**Dopamine Transporter Genotype Is Associated with a Lateralized Resistance to Distraction during Attention Selection**

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**NEUROBIOLOGY OF DISEASE**

**Differentially Methylated Plasticity Genes in the Amygdala of Young Primates Are Linked to Anxious Temperament, an at Risk Phenotype for Anxiety and Depressive Disorders**

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**Delayed Disease Onset and Extended Survival in the SOD1G93A Rat Model of Amyotrophic Lateral Sclerosis after Suppression of Mutant SOD1 in the Motor Cortex**

Gretchen M. Thomsen, Genevieve Gowing, Jessica Latter, Maximus Chen, Jean-Philippe Vit, Kevin Staggenborg, Pablo Avalos, Mor Alkaslasi, Laura Ferraiuolo, Shibi Likhite, Brian K. Kaspar, and Clive N. Svendsen

**Differential Effects of Delayed Aging on Phenotype and Striatal Pathology in a Murine Model of Huntington Disease**

Sara J. Tallaksen-Greene, Marianna Sadagurski, Li Zeng, Roseanne Mauch, Matthew Perkins, Varuna C. Banduseela, Andrew P. Lieberman, Richard A. Miller, Henry L. Paulson, and Roger L. Albin

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