

# The Journal of Neuroscience

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**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).

## i This Week in The Journal

### Journal Club

- 15505 **Large-Scale Network Involvement in Language Processing**  
Korey P. Wylie and Michael F. Regner

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#### CELLULAR/MOLECULAR

- 15638 **Hyperpolarization-Activated Cyclic Nucleotide-Gated Channels and cAMP-Dependent Modulation of Exocytosis in Cultured Rat Lactotrophs**  
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- 15669 ***In Vivo* Identification of Eugenol-Responsive and Muscone-Responsive Mouse Odorant Receptors**  
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- 15689 **Swelling and Eicosanoid Metabolites Differentially Gate TRPV4 Channels in Retinal Neurons and Glia**  
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- 15764 **Oligodendrocyte Precursor Cell-Intrinsic Effect of Rheb1 Controls Differentiation and Mediates mTORC1-Dependent Myelination in Brain**  
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- 15779 **Netrin-G/NGL Complexes Encode Functional Synaptic Diversification**  
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#### DEVELOPMENT/PLASTICITY/REPAIR

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- 15816 **Prox1 Regulates Olig2 Expression to Modulate Binary Fate Decisions in Spinal Cord Neurons**  
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- 15522 **Area MT Encodes Three-Dimensional Motion**  
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- 15534 **Functional Relationships between the Hippocampus and Dorsomedial Striatum in Learning a Visual Scene-Based Memory Task in Rats**  
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- 15557 **The Neural Circuit Mechanisms Underlying the Retinal Response to Motion Reversal**  
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- 15601 **Pathway-Selective Adjustment of Prefrontal-Amygdala Transmission during Fear Encoding**  
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- 15621 **Learning To Minimize Efforts versus Maximizing Rewards: Computational Principles and Neural Correlates**  
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- 15722 **Equilibrium-Based Movement Endpoints Elicited from Primary Motor Cortex Using Repetitive Microstimulation**  
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- 15793 **Posttraining Ablation of Adult-Generated Olfactory Granule Cells Degrades Odor-Reward Memories**  
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- 15610 **Reward Activates Stimulus-Specific and Task-Dependent Representations in Visual Association Cortices**  
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- 15631 **Regulation of Experience-Dependent Bidirectional Chemotaxis by a Neural Circuit Switch in *Caenorhabditis elegans***  
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- 15679 **Gap Junctions in the Ventral Hippocampal-Medial Prefrontal Pathway Are Involved in Anxiety Regulation**  
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- 15701 **Thermosensory Signaling by TRPM Is Processed by Brain Serotonergic Neurons to Produce Planarian Thermotaxis**  
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- 15587 **Delayed Disease Onset and Extended Survival in the SOD1<sup>G93A</sup> Rat Model of Amyotrophic Lateral Sclerosis after Suppression of Mutant SOD1 in the Motor Cortex**  
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- 15658 **Differential Effects of Delayed Aging on Phenotype and Striatal Pathology in a Murine Model of Huntington Disease**  
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