



**Cover legend:** This confocal image shows GABAergic synapses (green) impinging on neurons at avian cochlear nucleus (red), which were immunostained with antibodies against vesicular GABA transporter and microtubule associated protein 2, respectively. The number and strength of GABAergic synapses in these neurons are coordinated with the characteristics of excitatory synapses and postsynaptic neurons, ensuring precise and reliable encoding of sound for wide frequency and intensity ranges. For more information, see the article by Al-Yaari et al. (pages 8904–8916). Cover image: Rei Yamada and Daiya Kondo.

## 8858 This Week in The Journal

### Research Articles

#### CELLULAR/MOLECULAR

- 8859 Dynamic Heterogeneity Shapes Patterns of Spiral Ganglion Activity**  
Jeffrey Parra-Munevar, Charles E. Morse, Mark R. Plummer, and Robin L. Davis

### Research Articles

#### DEVELOPMENT/PLASTICITY/REPAIR

- 8876 Postnatal Sox6 Regulates Synaptic Function of Cortical Parvalbumin-Expressing Neurons**  
Hermany Munguba, Bidisha Chattopadhyaya, Stephan Nilsson, Josianne N. Carriço, Fatima Memic, Polina Oberst, Renata Batista-Brito, Ana Belen Muñoz-Manchado, Michael Wegner, Gordon Fishell, Graziella Di Cristo, and Jens Hjerling-Leffler
- 8887 STK25 and MST3 Have Overlapping Roles to Regulate Rho GTPases during Cortical Development**  
Tohru Matsuki, Akio Iio, Masashi Ueda, Yumi Tsuneura, Brian W. Howell, and Atsuo Nakayama

#### SYSTEMS/CIRCUITS

- 8904 Tonotopic Specializations in Number, Size, and Reversal Potential of GABAergic Inputs Fine-Tune Temporal Coding at Avian Cochlear Nucleus**  
Mohammed Al-Yaari, Chikao Onogi, Rei Yamada, Ryota Adachi, Daiya Kondo, and Hiroshi Kuba

#### BEHAVIORAL/COGNITIVE

- 8917 Increased Functional Connectivity of the Intraparietal Sulcus Underlies the Attenuation of Numerosity Estimations for Self-Generated Words**  
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- 8928 Trial-to-Trial Variability of Spiking Delay Activity in Prefrontal Cortex Constrains Burst-Coding Models of Working Memory**  
Daming Li, Christos Constantinidis, and John D. Murray
- 8946 Generalizable EEG Encoding Models with Naturalistic Audiovisual Stimuli**  
Maansi Desai, Jade Holder, Cassandra Villarreal, Nat Clark, Brittany Hoang, and Liberty S. Hamilton

**8963 A Neurocomputational Model for Intrinsic Reward**  
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**8972 Cognitive and Neural State Dynamics of Narrative Comprehension**  
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#### NEUROBIOLOGY OF DISEASE

**8991 Mechanisms Underlying the Selective Therapeutic Efficacy of Carbamazepine for Attenuation of Trigeminal Nerve Injury Pain**  
Jorge Baruch Pineda-Farias, Emanuel Loeza-Alcocer, Vidhya Nagarajan, Michael S. Gold, and Raymond F. Sekula Jr.

**9008 Addiction-Associated Genetic Variants Implicate Brain Cell Type- and Region-Specific Cis-Regulatory Elements in Addiction Neurobiology**  
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**9031 CDKL5 Deficiency Augments Inhibitory Input into the Dentate Gyrus That Can Be Reversed by Deep Brain Stimulation**  
Shuang Hao, Qi Wang, Bin Tang, Zhenyu Wu, Tingting Yang, and Jianrong Tang

**9047 Slo2/K<sub>Na</sub> Channels in *Drosophila* Protect against Spontaneous and Induced Seizure-like Behavior Associated with an Increased Persistent Na<sup>+</sup> Current**  
Nathan Byers, Eu-Teum Hahm, and Susan Tsunoda

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