

**Cover legend:** This image shows an organ of Corti explant from a 1-day-old wild-type mouse after treatment with cisplatin. The organ was double-labeled with antibodies that recognize cisplatin-induced adducts on DNA (red) and Myosin VI (green), which marks hair cells. For more information, see the article by Rainey, Ng et al. (pages 4758–4770).

i This Week in The Journal

## Journal Club

- 4659 **Exploring the Origins and Development of the Visual Number Form Area: A Functionally Specialized and Domain-Specific Region for the Processing of Number Symbols?**  
Rebecca Merkley, Eric D. Wilkey, and Anna A. Matejko

## Articles

### CELLULAR/MOLECULAR

- 4690 **Targeted Epigenetic Remodeling of the *Cdk5* Gene in Nucleus Accumbens Regulates Cocaine- and Stress-Evoked Behavior**  
Elizabeth A. Heller, Peter J. Hamilton, Dominika D. Burek, Sonia I. Lombroso, Catherine J. Peña, Rachael L. Neve, and Eric J. Nestler
- 4785 **FGF-1 Triggers Pannexin-1 Hemichannel Opening in Spinal Astrocytes of Rodents and Promotes Inflammatory Responses in Acute Spinal Cord Slices**  
Juan Mauricio Garré, Guang Yang, Feliksas F. Bukauskas, and Michael V. L. Bennett
- 4802 **Epac Signaling Is Required for Cocaine-Induced Change in AMPA Receptor Subunit Composition in the Ventral Tegmental Area**  
Xiaojie Liu, Yao Chen, Jiaqing Tong, Ashley M. Reynolds, Sarah C. Proudfoot, Jinshun Qi, Peter Penzes, Youming Lu, and Qing-song Liu
- 4816 **Neurotrophin-3 Regulates Synapse Development by Modulating TrkC-PTP $\sigma$  Synaptic Adhesion and Intracellular Signaling Pathways**  
Kyung Ah Han, Doyeon Woo, Seungjoon Kim, Gayoung Choi, Sangmin Jeon, Seoung Youn Won, Ho Min Kim, Won Do Heo, Ji Won Um, and Jaewon Ko
- 4859 **Behavioral, Neurophysiological, and Synaptic Impairment in a Transgenic Neuregulin1 (NRG1-IV) Murine Schizophrenia Model**  
Francesco Papaleo, Feng Yang, Clare Paterson, Sara Palumbo, Gregory V. Carr, Yanhong Wang, Kirsten Floyd, Wenwei Huang, Craig J. Thomas, Jingshan Chen, Daniel R. Weinberger, and Amanda J. Law

### DEVELOPMENT/PLASTICITY/REPAIR

- 4744 **Motor Nerve Arborization Requires Proteolytic Domain of Damage-Induced Neuronal Endopeptidase (DINE) during Development**  
Sakiko Matsumoto, Sumiko Kiryu-Seo, and Hiroshi Kiyama
- 4846 **GluD2 Endows Parallel Fiber–Purkinje Cell Synapses with a High Regenerative Capacity**  
Ryoichi Ichikawa, Kenji Sakimura, and Masahiko Watanabe

## SYSTEMS/CIRCUITS

- 4669 Cohesion and Joint Speech: Right Hemisphere Contributions to Synchronized Vocal Production**  
Kyle M. Jasmin, Carolyn McGettigan, Zarinah K. Agnew, Nadine Lavan, Oliver Josephs, Fred Cummins, and Sophie K. Scott
- 4708 Clinically Anxious Individuals Show Disrupted Feedback between Inferior Frontal Gyrus and Prefrontal-Limbic Control Circuit**  
Jiook Cha, Daniel DeDora, Sanja Nedic, Jaime Ide, Tsafirir Greenberg, Greg Hajcak, and Lilianne Rivka Mujica-Parodi
- 4876 Responses to Pop-Out Stimuli in the Barn Owl's Optic Tectum Can Emerge through Stimulus-Specific Adaptation**  
Arkadeb Dutta, Hermann Wagner, and Yoram Gutfreund

## BEHAVIORAL/COGNITIVE

- 4662 Task-Related Dynamic Division of Labor Between Anterior Temporal and Lateral Occipital Cortices in Representing Object Size**  
Rocco Chiou and Matthew A. Lambon Ralph
- 4719 Decoding the Charitable Brain: Empathy, Perspective Taking, and Attention Shifts Differentially Predict Altruistic Giving**  
Anita Tusche, Anne Böckler, Philipp Kanske, Fynn-Mathis Trautwein, and Tania Singer
- 4771 Stimulus-Elicited Connectivity Influences Resting-State Connectivity Years Later in Human Development: A Prospective Study**  
Laurel Joy Gabard-Durnam, Dylan Grace Gee, Bonnie Goff, Jessica Flannery, Eva Telzer, Kathryn Leigh Humphreys, Daniel Stephen Lumian, Dominic Stephen Fareri, Christina Caldera, and Nim Tottenham
- 4832 The Neural Feedback Response to Error As a Teaching Signal for the Motor Learning System**  
Scott T. Albert and Reza Shadmehr

## NEUROBIOLOGY OF DISEASE

- 4681 TMEM184b Promotes Axon Degeneration and Neuromuscular Junction Maintenance**  
Martha R. C. Bhattacharya, Stefanie Geisler, Sara K. Pittman, Ryan A. Doan, Conrad C. Weihl, Jeffrey Milbrandt, and Aaron DiAntonio
- 4698 Oligodendroglial Pathology in Multiple Sclerosis: Low Glycolytic Metabolic Rate Promotes Oligodendrocyte Survival**  
Malena B. Rone, Qiao-Ling Cui, Jun Fang, Li-Chun Wang, Ji Zhang, Damla Khan, Melissa Bedard, Guillermina Almazan, Samuel K. Ludwin, Russel Jones, Timothy E. Kennedy, and Jack P. Antel
- 4733 Susceptibility of Primary Sensory Cortex to Spreading Depolarizations**  
Volodymyr B. Bogdanov, Natalie A. Middleton, Jeremy J. Theriot, Patrick D. Parker, Osama M. Abdullah, Y. Sungtaek Ju, Jed A. Hartings, and K.C. Brennan
- 4758 Mutations in Cockayne Syndrome-Associated Genes (*Csa* and *Csb*) Predispose to Cisplatin-Induced Hearing Loss in Mice**  
Robert N. Rainey, Sum-yan Ng, Juan Llamas, Gijsbertus T. J. van der Horst, and Neil Segil
- 4888 Maternal Loss of *Ube3a* Impairs Experience-Driven Dendritic Spine Maintenance in the Developing Visual Cortex**  
Hyojin Kim, Portia A. Kunz, Richard Mooney, Benjamin D. Philpot, and Spencer L. Smith

4895 **Knockdown of Dyslexia-Gene *Dcdc2* Interferes with Speech Sound Discrimination in Continuous Streams**

Tracy Michelle Centanni, Anne B. Booker, Fuyi Chen, Andrew M. Sloan,  
Ryan S. Carraway, Robert L. Rennaker, Joseph J. LoTurco, and Michael P. Kilgard

---

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/misc/itoa.shtml>. Authors should refer to these Instructions online for recent changes that are made periodically.

Submissions should be submitted online using the following url:  
<http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; fax, 202-962-4945; e-mail, [jn@sfn.org](mailto:jn@sfn.org).