Cover legend: Even though hue can vary continuously, human observers are quick to classify stimuli into a handful of color categories, visualized in the cover illustration as attractive wells. The neural representation of color can mimic this perceptual effect. Specifically, in human visual areas V4v and V01, performing a color naming task adaptively alters the neural representation: patterns of activity evoked by colors belonging to the same category became more similar, while the patterns of activity evoked by color of different categories became more dissimilar. This suggests that these areas switched to a categorical representation of color to perform the task. For more information, see Brouwer and Heeger (15454–15465).

**Journal Club**

15319 Representations of Distinct Salience Signals in the Nucleus Accumbens
Vishnu P. Murty, Jessica K. Stanek, and Andrew C. Heusser

15321 Individual Predisposition for Learning and Neuroplasticity
Sibylle C. Herholz

**Brief Communications**

15376 The Role of Sleep Spindles and Slow-Wave Activity in Integrating New Information in Semantic Memory
Jakke Tamminen, Matthew A. Lambon Ralph, and Penelope A. Lewis

15382 Protein Synthesis-Dependent Associative Long-Term Memory in Larval Zebrafish
Flora I. Hinz, Mark Aizenberg, Georgi Tushel, and Erin M. Schuman

15388 The Stimulation of Adenosine A1 Receptors Ameliorates the Pathological Phenotype of Fibroblasts from Niemann-Pick Type C Patients
Sergio Visentin, Chiara De Nuccio, Antonietta Bernardo, Rita Pepponi, Antonella Ferrante, Luisa Minghetti, and Patrizia Popoli

15394 Opposite Adaptive Processing of Stimulus Intensity in Two Major Nuclei of the Somatosensory Brainstem
Boaz Mohar, Yonatan Katz, and Ilan Lampl

15401 Dhhc8-Dependent Pick1 Palmitoylation Is Required for Induction of Cerebellar Long-Term Synaptic Depression
Gareth M. Thomas, Takashi Hayashi, Richard L. Huganir, and David J. Linden

15408 Size Does Not Always Matter: Ts65Dn Down Syndrome Mice Show Cerebellum-Dependent Motor Learning Deficits that Cannot Be Rescued by Postnatal SAG Treatment
Nicolas Gutierrez-Castellanos, Beerend H. J. Winkelman, Leonardo Tolosa-Rodriguez, Benjamin Devenney, Roger H. Reeves, and Chris I. De Zeeuw

15425 Presynaptic Control of Corticostriatal Synapses by Endogenous GABA
Christopher Logie, Vincenza Bagetta, and Enrico Bracci

**Articles**

CELLULAR/MOLECULAR

15333 Synaptic Mechanisms Underlying Strong Reciprocal Connectivity between the Medial Prefrontal Cortex and Basolateral Amygdala
Justin P. Little and Adam G. Carter

15362 Fast Vesicle Transport Is Required for the Slow Axonal Transport of Synapsin
Yong Tang, David Scott, Utpal Das, Daniel Gitler, Archan Ganguly, and Subhojit Roy
15477 **Activation of Presynaptic GABA$_{B(1a,2)}$ Receptors Inhibits Synaptic Transmission at Mammalian Inhibitory Cholinergic Olivocochlear–Hair Cell Synapses**
Carolina Wedemeyer, Javier Zorrilla de San Martin, Jimena Ballestero, Maria Eugenia Gómez-Casati, Ana Vanesa Torbidoni, Paul A. Fuchs, Bernhard Bettler, Ana Belén Elgoyhen, and Eleonora Katz

15488 **Activity-Dependent Regulation of the K/Cl Transporter KCC2 Membrane Diffusion, Clustering, and Function in Hippocampal Neurons**
Ingrid Chamma, Martin Heubi, Quentin Chevy, Marianne Renner, Imane Moutkine, Emmanuel Eugène, Jean Christophe Poncer, and Sabine Lévi

15504 **Differential Roles of Postsynaptic Density-93 Isoforms in Regulating Synaptic Transmission**
Juliane M. Krüger, Plinio D. Favaro, Mingna Liu, Agata Kitlińska, Xiaojie Huang, Monika Raabe, Derya S. Akad, Yanling Liu, Henning Urlaub, Yan Dong, Weifeng Xu, and Oliver M. Schlüter

15545 **Drosophila Neuroligin 4 Regulates Sleep through Modulating GABA Transmission**
Yi Li, Zikai Zhou, Xinwang Zhang, Huawei Tong, Peipei Li, Zi Chao Zhang, Zhengping Jia, Wei Xie, and Junhai Han

DEVELOPMENT/PLASTICITY/REPAIR

15343 **Decrease of Gray Matter Volume in the Midbrain is Associated with Treatment Response in Medication-Overuse Headache: Possible Influence of Orbitofrontal Cortex**
Franz Riederer, Andreas R. Gantenbein, Marvin Marti, Roger Luechinger, Spyridon Kollias, and Peter S. Sándor

15350 **Short Hairpin RNA against PTEN Enhances Regenerative Growth of Corticospinal Tract Axons after Spinal Cord Injury**
Katherine Zukor, Stephane Belin, Chen Wang, Nadia Keelan, Xuhua Wang, and Zhigang He

15555 **GABA$_A$ Receptor Agonist and Antagonist Alter Vestibular Compensation and Different Steps of Reactive Neurogenesis in Deafferented Vestibular Nuclei of Adult Cats**
Sophie Dutheil, Guy Escoffier, Ali Gharbi, Isabelle Watabe, and Brahim Tighilet

15652 **Dab1 Is Required for Synaptic Plasticity and Associative Learning**
Justin Trotter, Gum Hwa Lee, Tatiana M. Kazdoba, Beth Crowell, Jason Domogauer, Heather M. Mahoney, Santos J. Franco, Ulrich Müller, Edwin J. Weeber, and Gabriella D’Arcangelo

SYSTEMS/CIRCUITS

15432 **Temporally Specific Sensory Signals for the Detection of Stimulus Omission in the Primate Deep Cerebellar Nuclei**
Shogo Ohmae, Akiko Uematsu, and Masaki Tanaka

15518 **Cytoarchitectonic and Dynamic Origins of Giant Positive Local Field Potentials in the Dentate Gyrus**
Antonio Fernández-Ruiz, Sagrario Muñoz, Miguel Sancho, Julia Makarova, Valeri A. Makarov, and Oscar Herreras

15533 **Two-Dimensional Representation of Action and Arm-Use Sequences in the Presupplementary and Supplementary Motor Areas**
Toshi Nakajima, Ryosuke Hosaka, Ichiro Tsuda, Jun Tanji, and Hajime Mushiake

15626 **Sodium-Mediated Plateau Potentials in Lumbar Motoneurons of Neonatal Rats**
Mouloud Bouhadlane, Sabrina Tazerart, Aziz Moqrich, Laurent Vinay, and Frédéric Brocard
15324 When the Sense of Smell Meets Emotion: Anxiety-State-Dependent Olfactory Processing and Neural Circuitry Adaptation
Elizabeth A. Krusemark, Lucas R. Novak, Darren R. Gitelman, and Wen Li

15414 Neural Dynamics of Phonological Processing in the Dorsal Auditory Stream
Einat Liebenthal, Merav Sabri, Scott A. Beardsley, Jain Mangalathu-Arumana, and Anjali Desai

15442 Distinct Regions of Right Temporal Cortex Are Associated with Biological and Human–Agent Motion: Functional Magnetic Resonance Imaging and Neuropsychological Evidence
Zaizhu Han, Yanchao Bi, Jing Chen, Quanjing Chen, Yong He, and Alfonso Caramazza

15454 Categorical Clustering of the Neural Representation of Color
Gjis Joost Brouwer and David J. Heeger

15466 Right Supramarginal Gyrus Is Crucial to Overcome Emotional Egocentricity Bias in Social Judgment
Giorgia Silani, Claus Lamm, Christian C. Ruff, and Tania Singer

15588 Short-Term Quetiapine Treatment Alters the Use of Reinforcement Signals during Risky Decision-Making and Promotes the Choice of Negative Expected Values in Healthy Adult Males
Philippa L. Rock, Catherine J. Harmer, Sarah F. B. McTavish, Guy M. Goodwin, and Robert D. Rogers

15618 Sulcal Depth-Position Profile Is a Genetically Mediated Neuroscientific Trait: Description and Characterization in the Central Sulcus
D. Reese McKay, Peter Kochunov, Matthew D. Cykowski, Jack W. Kent Jr, Angela R. Laird, Jack L. Lancaster, John Blangero, David C. Glahn, and Peter T. Fox

15642 Cannabinoid Transmission in the Prelimbic Cortex Bidirectionally Controls Opiate Reward and Aversion Signaling through Dissociable Kappa Versus μ-Opiate Receptor Dependent Mechanisms
Tasha Ahmad, Nicole M. Lauzon, Xavier de Jaeger, and Steven R. Laviolette

NEUROBIOLOGY OF DISEASE

15567 The Ability of BDNF to Modify Neurogenesis and Depressive-Like Behaviors Is Dependent upon Phosphorylation of Tyrosine Residues 365/367 in the GABA-A-Receptor γ2 Subunit
Mansi Vithlani, Rochelle M. Hines, Ping Zhong, Miho Terunuma, Dustin J. Hines, Raquel Revilla-Sanchez, Rachel Jurd, Phillip Haydon, Maribel Rios, Nicholas Brandon, Zhen Yan, and Stephen J. Moss

15578 Spared and Impaired Spoken Discourse Processing in Schizophrenia: Effects of Local and Global Language Context

15596 Early BDNF Treatment Ameliorates Cell Loss in the Entorhinal Cortex of APP Transgenic Mice
Alan H. Nagahara, Michael Mateling, Imre Kovacs, Ling Wang, Simone Eggert, Edward Rockenstein, Edward H. Koo, Eliezer Masliah, and Mark H. Tuszynski
Chondroitin Sulfate Proteoglycans Potently Inhibit Invasion and Serve as a Central Organizer of the Brain Tumor Microenvironment

Daniel J. Silver, Florian A. Siebzehnrubl, Michela J. Schildts, Anthony T. Yachnis, George M. Smith, Amy A. Smith, Bjorn Scheffler, Brent A. Reynolds, Jerry Silver, and Dennis A. Steindler

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.

Brief Communications Instructions for Authors are available via Internet (http://www.jneurosci.org/misc/ifab.c.shtml).

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.