Cover legend: An Egyptian fruit bat. These bats, as well as big brown bats, have place cells in hippocampal area CA1. These neurons also exhibit clear tuning to head direction, thus encoding both place and movement direction. For more information, see the article by Rubin et al. (pages 1067–1080).

Photograph by Haim Ziv. Used with permission.

This Week in The Journal

Journal Club

689 In Search of Causal Mechanisms Underlying Bistable Perception
Stefan Rach and René J. Huster

Brief Communications

691 Multisensory Temporal Integration in Autism Spectrum Disorders
Ryan A. Stevenson, Justin K. Siemann, Brittany C. Schneider, Haley E. Eberly, Tiffany G. Woynaroski, Stephen M. Camarata, and Mark T. Wallace

758 S6 Kinase Inhibits Intrinsic Axon Regeneration Capacity via AMP Kinase in Caenorhabditis elegans
Thomas Hubert, Zili Wu, Andrew D. Chisholm, and Yishi Jin

817 Similar Roles of Substantia Nigra and Ventral Tegmental Dopamine Neurons in Reward and Aversion
Anton Ilango, Andrew J. Kesner, Kristine L. Keller, Garret D. Stuber, Antonello Bonci, and Satoshi Ikemoto

1051 Effects of Neuregulin 3 Genotype on Human Prefrontal Cortex Physiology
Heike Tost, Joseph H. Callicott, Roberta Rasetti, Radhakrishna Vakkalanka, Venkata S. Mattay, Daniel R. Weinberger, and Amanda J. Law

Articles

CELLULAR/MOLECULAR

705 Modes and Regulation of Endocytic Membrane Retrieval in Mouse Auditory Hair Cells
Jakob Neef, SangYong Jung, Aaron B. Wong, Kirsten Reuter, Tina Pangrišić, Ritu Chakrabarti, Sebastian Kügler, Christine Lenz, Régis Nouvian, Rebecca M. Boumil, Wayne N. Frankel, Carolin Wichmann, and Tobias Moser
The Voltage-Gated Anion Channels Encoded by clh-3 Regulate Egg Laying in C. elegans by Modulating Motor Neuron Excitability
Robyn Branicky, Hiroaki Miyazaki, Kevin Strange, and William R. Schafer

Neurofibromin Is the Major Ras Inactivator in Dendritic Spines
Ana F. Oliveira and Ryohei Yasuda

Postsynaptic GABA Receptor Activity Regulates Excitatory Neuronal Architecture and Spatial Memory
Miho Terunuma, Raquel Revilla-Sanchez, Isabel M. Quadros, Qiuqong Deng, Tarek Z. Deeb, Michael Lumb, Piotr Sicinski, Philip G. Haydon, Menelas N. Pangalos, and Stephen J. Moss

Investigation of Synapse Formation and Function in a Glutamatergic-GABAergic Two-Neuron Microcircuit
Chia-Ling Chang, Thorsten Trimbuch, Hsiao-Tuan Chao, Julia-Christine Jordan, Melissa A. Herman, and Christian Rosenmund

Phosphorylation of Ser1166 on GluN2B by PKA Is Critical to Synaptic NMDA Receptor Function and Ca\(^{2+}\) Signaling in Spines
Jessica A. Murphy, Ivar S. Stein, C. Geoffrey Lau, Rui T. Peixoto, Teresa K. Aman, Naoki Kaneko, Kelly Aromolaran, Jessica L. Saulnier, Gabriela K. Popescu, Bernardo L. Sabatini, Johannes W. Hell, and R. Suzanne Zukin

Neuronal Expression of GalNAc Transferase Is Sufficient to Prevent the Age-Related Neurodegenerative Phenotype of Complex Ganglioside-Deficient Mice
Denggao Yao, Rhona McGonigal, Jennifer A. Barrie, Joanna Cappell, Madeleine E. Cunningham, Gavin R. Meehan, Simon N. Fewou, Julia M. Edgar, Edward Rowan, Yuhsuke Ohmi, Keiko Furukawa, Koichi Furukawa, Peter J. Brophy, and Hugh J. Willison

Photoinactivation of Glutamate Receptors by Genetically Encoded Unnatural Amino Acids
Viktoria Klippenstein, Valentina Ghisi, Marcus Wietstruk, and Andrew J. R. Plested

An Unconventional Secretory Pathway Mediates the Cilia Targeting of Peripherin/rds
Guilian Tian, Philip Ropelewski, Ina Nemet, Richard Lee, Kerrie H. Lodowski, and Yoshikazu Imanishi

Fluoxetine Exposure during Adolescence Alters Responses to Aversive Stimuli in Adulthood

The Environmental Neurotoxicant PCB 95 Promotes Synaptogenesis via Ryanodine Receptor-Dependent mIR132 Upregulation
Adam Lesiak, Mingyan Zhu, Hao Chen, Suzanne M. Appleyard, Soren Impey, Pamela J. Lein, and Gary A. Wayman

Bifurcation of Axons from Cranial Sensory Neurons Is Disabled in the Absence of Npr2-Induced cGMP Signaling
Gohar Ter-Avetisyan, Fritz G. Rathjen, and Hannes Schmidt
969 **BDNF Promotes Axon Branching of Retinal Ganglion Cells via miRNA-132 and p250GAP**
Katharine J. Marler, Philipp Suetterlin, Asha Dopplapudi, Aine Rubikaite, Jihad Adnan, Nicola A. Maiorano, Andrew S. Lowe, Ian D. Thompson, Manav Pathania, Angelique Bordey, Tudor Fulga, David L. Van Vactor, Robert Hindges, and Uwe Drescher

**SYSTEMS/CIRCUITS**

793 **Mechanisms of Coordination in Distributed Neural Circuits: Decoding and Integration of Coordinating Information**
Carmen Smarandache-Wellmann, Cynthia Weller, and Brian Mulloney

941 **Intermittency Coding in the Primary Olfactory System: A Neural Substrate for Olfactory Scene Analysis**
Il Memming Park, Yuriy V. Bobkov, Barry W. Ache, and José C. Príncipe

**BEHAVIORAL/COGNITIVE**

698 **Phasic Dopamine Release in the Rat Nucleus Accumbens Symmetrically Encodes a Reward Prediction Error Term**
Andrew S. Hart, Robb B. Rutledge, Paul W. Glimcher, and Paul E. M. Phillips

748 **Mental Action Simulation Synchronizes Action–Observation Circuits across Individuals**
Lauri Nummenmaa, Dmitry Smirnov, Juha M. Lahnakoski, Enrico Glergean, Iiro P. Jääskeläinen, Mikko Sams, and Riitta Hari

784 **Auditory and Tactile Signals Combine to Influence Vision during Binocular Rivalry**
Claudia Lunghi, Maria Concetta Morrone, and David Alais

823 **Tonic Inhibition of Accumbal Spiny Neurons by Extrasynaptic GABA Receptors Modulates the Actions of Psychostimulants**
Edward P. Maguire, Tom Macpherson, Jerome D. Swinny, Claire I. Dixon, Murray B. Herd, Delia Belelli, David N. Stephens, Sarah L. King, and Jeremy J. Lambert

846 **The Neural Dynamics of Face Detection in the Wild Revealed by MVPA**
Maxime Cauchoix, Gladys Barragan-Jason, Thomas Serre, and Emmanuel J. Barbeau

892 **Endogenous Attention Signals Evoked by Threshold Contrast Detection in Human Superior Colliculus**
Sucharit Katyal and David Ress

901 **An Investigation into the Origin of Anatomical Differences in Dyslexia**
Anthony J. Krafnick, D. Lynn Flowers, Megan M. Luetje, Eileen M. Napoliello, and Guinevere F. Eden

909 **Action Recognition by Motion Detection in Posture Space**
Stefanie Theusner, Marc de Lussanet, and Markus Lappe

932 **Precuneus Is a Functional Core of the Default-Mode Network**
Amanda V. Utevsky, David V. Smith, and Scott A. Huettel

953 **A Novel Role for Brain Interleukin-6: Facilitation of Cognitive Flexibility in Rat Orbitofrontal Cortex**
Jennifer J. Donegan, Milena Girotti, Marc S. Weinberg, and David A. Morilak

1037 **Bihemispheric Transcranial Direct Current Stimulation Enhances Effector-Independent Representations of Motor Synergy and Sequence Learning**
Sheena Waters-Metenier, Masud Husain, Tobias Wiestler, and Jörn Diedrichsen
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/ifa_bc.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.