The image displays a 3D reconstruction of the basal cortical actin network of a bovine chromaffin cell that was transfected with Lifeact-GFP and imaged using structured illumination microscopy. The image was taken 6 min after stimulation with Ba
2
⁺/H11001, which causes secretion. In response, the cortical actin network undergoes remodeling to help with compensatory bulk endocytosis. The color-coding indicates the z-position of the imaged F-actin structures. Red hues are closer to the basal plasma membrane and blue hues are further within the cytosol. The contractile acto-myosin II rings visible in the bottom left of the cell form to help reduce the neck of budding endosomes. For more information, see the article by Gormal et al. (pages 1380 –1389).

i This Week in The Journal

Journal Club

1337 The Interaction of REM Sleep with Safety Learning in Humans: Could a Good Night’s Sleep Alter a Traumatic Experience
Rowan P. Ogeil and Kathryn D. Baker

1340 A Role For Orbitofrontal Neurons in Risky Decisions
Armin Lak and William R. Stauffer

Brief Communications

1687 Listening to the Brainstem: Musicianship Enhances Intelligibility of Subcortical Representations for Speech
Michael W. Weiss and Gavin M. Bidelman

Articles

CELLULAR/MOLECULAR

1380 An Acto-Myosin II Constricting Ring Initiates the Fission of Activity-Dependent Bulk Endosomes in Neurosecretory Cells
Rachel S. Gormal, Tam H. Nguyen, Sally Martin, Andreas Papadopulos, and Frederic A. Meunier

1481 Hyperexcitability of Rat Thalamocortical Networks after Exposure to General Anesthesia during Brain Development
Michael R. DiGruccio, Srdjan Joksimovic, Pavle M. Joksovíc, Nadia Lunardi, Reza Salajegheh, Vesna Jevtovic-Todorovic, Mark P. Beenhakker, Howard P. Goodkin, and Slobodan M. Todorovic

1606 Mechanism of Neuromuscular Dysfunction in Krabbe Disease
Ludovico Cantuti-Castelvetri, Erick Maravilla, Michael Marshall, Tammy Tamayo, Ludovic D’auria, John Monge, James Jeffries, Tuba Sural-Fehr, Aurora Lopez-Rosas, Guannan Li, Kelly Garcia, Richard van Breemen, Charles Vite, Jesus Garcia, and Ernesto R. Bongarzone

1659 The Role of Telomerase Protein TERT in Alzheimer’s Disease and in Tau-Related Pathology In Vitro
Alison Spilsbury, Satomi Miwa, Johannes Attems, and Gabriele Saretzki

1706 Bax Regulates Neuronal Ca
2
⁺ Homeostasis
Beatrice D’Orsi, Seán M. Kilbride, Gang Chen, Sergio Perez Alvarez, Helena P. Bonner, Shona Pfeiffer, Nikolaus Plesnila, Tobias Engel, David C. Henshall, Heiko Düssmann, and Jochen H.M. Prehn
**DEVELOPMENT/PLASTICITY/REPAIR**

1443 Plasticity of Intact Rubral Projections Mediates Spontaneous Recovery of Function after Corticospinal Tract Injury
Chad S. Siegel, Kathren L. Fink, Stephen M. Strittmatter, and William B.J. Cafferty

1573 A Distinct Subtype of Dopaminergic Interneuron Displays Inverted Structural Plasticity at the Axon Initial Segment
Annisa N. Chand, Elisa Galliano, Robert A. Chesters, and Matthew S. Grubb

1723 Opioid Receptor-Dependent Sex Differences in Synaptic Plasticity in the Hippocampal Mossy Fiber Pathway of the Adult Rat
Lauren C. Harte-Hargrove, Ada Varga-Wesson, Aine M. Duffy, Teresa A. Milner, and Helen E. Scharfman

**SYSTEMS/CIRCUITS**

1354 Visual Landmark Information Gains Control of the Head Direction Signal at the Lateral Mammillary Nuclei
Ryan M. Yoder, James R. Peck, and Jeffrey S. Taube

1411 Left Dorsal Speech Stream Components and Their Contribution to Phonological Processing
Takenobu Murakami, Christian A. Kell, Julia Restle, Yoshikazu Ugawa, and Ulf Ziemann

1432 Spontaneous Activity Does Not Predict Morphological Type in Cerebellar Interneurons
Shlomi Haar, Ronit Givon-Mayo, Neal H. Barmack, Vadim Yakhnitsa, and Opher Donchin

1521 Trade-Off between Information Format and Capacity in the Olfactory System
Zane N. Aldworth and Mark A. Stopfer

1591 Propagating Waves Can Explain Irregular Neural Dynamics
Adam K crane and Pulin Gong

1627 Alpha and Beta Band Event-Related Desynchronization Reflects Kinematic Regularities
Yaron Meirovitch, Hila Harris, Eran Dayan, Amos Arieli, and Tamar Flash

1675 Elucidating the Role of AII Amacrine Cells in Glutamatergic Retinal Waves
Alana Firl, Jiang-Bin Ke, Lei Zhang, Peter G. Fuerst, Joshua H. Singer, and Marla B. Feller

1692 Neural Correlates of Object-Associated Choice Behavior in the Perirhinal Cortex of Rats
Jae-Rong Ahn and Inah Lee

1806 Plasticity during Motherhood: Changes in Excitatory and Inhibitory Layer 2/3 Neurons in Auditory Cortex
Lior Cohen and Adi Mizrahi

**BEHAVIORAL/COGNITIVE**

1343 Designer Receptors Enhance Memory in a Mouse Model of Down Syndrome
Ashley M. Fortress, Eric D. Hamlett, Elena M. Vazey, Gary Aston-Jones, Wayne A. Cass, Heather A. Boger, and Ann-Charlotte E. Granholm
Dissociable Roles for the Basolateral Amygdala and Orbitofrontal Cortex in Decision-Making under Risk of Punishment
Caitlin A. Orsini, Rose T. Trotta, Jennifer L. Bizon, and Barry Setlow

Sustained Maintenance of Somatotopic Information in Brain Regions Recruited by Tactile Working Memory
Tobias Kattus, Matthias M. Müller, and Martin Eimer

Behavioral and Circuit Basis of Sucrose Rejection by Drosophila Females in a Simple Decision-Making Task
Chung-Hui Yang, Ruo He, and Ulrich Stern

The Effects of an APOE Promoter Polymorphism on Human Cortical Morphology during Nondemented Aging
Yaojing Chen, Peng Li, Bin Gu, Zhen Liu, Xin Li, Alan C. Evans, Gaolang Gong, and Zhanjun Zhang

Neural Alpha Dynamics in Younger and Older Listeners Reflect Acoustic Challenges and Predictive Benefits
Malte Wöstmann, Björn Herrmann, Anna Wilsch, and Jonas Oleser

Seeing Is Not Feeling: Posterior Parietal But Not Somatosensory Cortex Engagement During Touch Observation
Annie W.-Y. Chan and Chris I. Baker

Action and Perception Are Temporally Coupled by a Common Mechanism That Leads to a Timing Misperception
Elena Pretegiani, Corina Astefanoaei, Pierre M. Daye, Edmond J. FitzGibbon, Dorina-Emilia Creanga, Alessandra Rufa, and Lance M. Optican

Direct Physiologic Evidence of a Heteromodal Convergence Region for Proper Naming in Human Left Anterior Temporal Lobe
Taylor J. Abel, Ariane E. Rhone, Kirill V. Nourski, Hiroto Kawasaki, Hiroyuki Oya, Timothy D. Griffiths, Matthew A. Howard III, and Daniel Tranel

Neural Decoding Reveals Impaired Face Configural Processing in the Right Fusiform Face Area of Individuals with Developmental Prosopagnosia
Jiedong Zhang (张杰栋), Jia Liu (刘嘉), and Yaoda Xu (许瑶达)

Neural Correlates of Expected Risks and Returns in Risky Choice across Development

Dynamic Modulation of the Action Observation Network by Movement Familiarity
Tom Gardner, Nia Goulden, and Emily S. Cross

Rescue of Impaired Long-Term Facilitation at Sensorimotor Synapses of Aplysia following siRNA Knockdown of CREB1
Lian Zhou, Yili Zhang, Rong-Yu Liu, Paul Smolen, Leonard J. Cleary, and John H. Byrne

Frontal Eye Fields Control Attentional Modulation of Alpha and Gamma Oscillations in Contralateral Occipitoparietal Cortex
Tom R. Marshall, Jacinta O’Shea, Ole Jensen, and Til O. Bergmann

Local Morphology Predicts Functional Organization of Experienced Value Signals in the Human Orbitofrontal Cortex
Yansong Li, Guillaume Sescousse, Céline Amiez, and Jean-Claude Dreher

Recollection-Related Increases in Functional Connectivity Predict Individual Differences in Memory Accuracy
Danielle R. King, Marianne de Chastelaine, Rachael L. Elward, Tracy H. Wang, and Michael D. Rugg
**Creatine Supplementation Enhances Corticomotor Excitability and Cognitive Performance during Oxygen Deprivation**
Clare E. Turner, Winston D. Byblow, and Nicholas Gant

**Morphometric and Histologic Substrates of Cingulate Integrity in Elders with Exceptional Memory Capacity**
Tamar Gefen, Melanie Peterson, Steven T. Papastefan, Adam Martersteck, Kristen Whitney, Alfred Rademaker, Eileen H. Bigio, Sandra Weintraub, Emily Rogalski, M.-Marsel Mesulam, and Changiz Geula

**Neural Mechanisms for Integrating Prior Knowledge and Likelihood in Value-Based Probabilistic Inference**
Chih-Chung Ting, Chia-Chen Yu, Laurence T. Maloney, and Shih-Wei Wu

**NEUROBIOLOGY OF DISEASE**

**Daily Marijuana Use Is Not Associated with Brain Morphometric Measures in Adolescents or Adults**
Barbara J. Weiland, Rachel E. Thayer, Brendan E. Depue, Amithrupa Sabbineni, Angela D. Bryan, and Kent E. Hutchison

**Lymphocytes from Chronically Stressed Mice Confer Antidepressant-Like Effects to Naive Mice**
Rebecca A. Brachman, Michael L. Lehmann, Dragan Maric, and Miles Herkenham

**Functional Consequences of Neurite Orientation Dispersion and Density in Humans across the Adult Lifespan**
Arash Nazeri, M. Mallar Chakravarty, David J. Rotenberg, Tarek K. Rajji, Yogesh Rathi, Oleg V. Michailovich, and Aristotle N. Vlonekos


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.