



Cover legend: This mirrored image shows a CA1 neuron before (left side) and after (right side) activation of excitotoxicity by metabotropic NMDA receptors and pannexin-1, a postsynaptic ion and metabolite channel. Metabotropic NMDAR signaling regulates pannexin-1 through Src kinase. This pathway suppresses facilitated release of presynaptic glutamate during synaptic activity by regulating tissue levels of the TRPV1 agonist anandamide. For more information, see the article by Bialecki et al. (pages 729–742).

711 This Week in The Journal

Dual Perspectives

712 **Forebrain Cholinergic Signaling: Wired and Phasic, Not Tonic, and Causing Behavior**
Martin Sarter and Cindy Lustig

720 **Diverse Spatiotemporal Scales of Cholinergic Signaling in the Neocortex**
Anita A. Disney and Michael J. Higley

Journal Club

726 **Paraventricular Thalamus Activity during Motivational Conflict Highlights the Nucleus as a Potential Constituent in the Neurocircuitry of Addiction**
Lauren D. Hill-Bowen, Jessica S. Flannery, and Ranjita Poudel

Research Articles

CELLULAR/MOLECULAR

729 **Suppression of Presynaptic Glutamate Release by Postsynaptic Metabotropic NMDA Receptor Signalling to Pannexin-1**
Jennifer Bialecki, Allison Werner, Nicholas L. Weiling, Catharine M. Tucker, Haley A. Vecchiarelli, Jon Egaña, Juan Mendizabal-Zubiaga, Pedro Grandes, Matthew N. Hill, and Roger J. Thompson

743 **Npas1⁺-Nkx2.1⁺ Neurons Are an Integral Part of the Cortico-pallido-cortical Loop**
Zachary A. Abecassis, Brianna L. Berceau, Phyo H. Win, Daniela García, Harry S. Xenias, Qiaoling Cui, Arin Pamukcu, Suraj Cherian, Vivian M. Hernández, Uree Chon, Byung Kook Lim, Yongsoo Kim, Nicholas J. Justice, Raj Awatramani, Bryan M. Hooks, Charles R. Gerfen, Simina M. Boca, and C. Savio Chan

DEVELOPMENT/PLASTICITY/REPAIR

769 **Ocular Dominance Plasticity in Binocular Primary Visual Cortex Does Not Require C1q**
Christina A. Welsh, Céleste-Élise Stephany, Richard W. Sapp, and Beth Stevens

784 **Convergence between Microglia and Peripheral Macrophages Phenotype during Development and Neuroinflammation**
Francesca Grassivaro, Ramesh Menon, Massimo Acquaviva, Linda Ottoboni, Francesca Ruffini, Andrea Bergamaschi, Luca Muzio, Cinthia Farina, and Gianvito Martino

SYSTEMS/CIRCUITS

- 796 **Rod Photoreceptors Signal Fast Changes in Daylight Levels Using a Cx36-Independent Retinal Pathway in Mouse**
Rose Pasquale, Yumiko Umino, and Eduardo Solessio
- 811 **Stimulation Augments Spike Sequence Replay and Memory Consolidation during Slow-Wave Sleep**
Yina Wei, Giri P. Krishnan, Lisa Marshall, Thomas Martinetz, and Maxim Bazhenov
- 825 **PSA-NCAM Colocalized with Cholecystokinin-Expressing Cells in the Hippocampus Is Involved in Mediating Antidepressant Efficacy**
Jun Yamada, Chihiro Sato, Kohtarou Konno, Masahiko Watanabe, and Shozo Jinno

BEHAVIORAL/COGNITIVE

- 843 **Pattern Separation and Source Memory Engage Distinct Hippocampal and Neocortical Regions during Retrieval**
Rebecca F. Stevenson, Zachariah M. Reagh, Amanda P. Chun, Elizabeth A. Murray, and Michael A. Yassa
- 852 **The Representation of Two-Body Shapes in the Human Visual Cortex**
Etienne Abassi and Liuba Papeo
- 864 **Predicting the Partition of Behavioral Variability in Speed Perception with Naturalistic Stimuli**
Benjamin M. Chin and Johannes Burge
- 880 **Complementary Roles for Ventral Pallidum Cell Types and Their Projections in Relapse**
Asheeta A. Prasad, Caroline Xie, Chanchanok Chaichim, Jennifer H. Nguyen, Hannah E. McClusky, Simon Killcross, John M. Power, and Gavan P. McNally
- 894 **Functional Connectivity between the Cerebellum and Somatosensory Areas Implements the Attenuation of Self-Generated Touch**
Konstantina Kilteni and H. Henrik Ehrsson
- 907 **Locus Coeruleus Norepinephrine Drives Stress-Induced Increases in Basolateral Amygdala Firing and Impairs Extinction Learning**
Thomas F. Giustino, Karthik R. Ramanathan, Michael S. Totty, Olivia W. Miles, and Stephen Maren
- 917 **Categorical Biases in Human Occipitoparietal Cortex**
Edward F. Ester, Thomas C. Sprague, and John T. Serences

NEUROBIOLOGY OF DISEASE

- 932 **NURR1 and ERR1 Modulate the Expression of Genes of a *DRD2* Coexpression Network Enriched for Schizophrenia Risk**
Silvia Torretta, Antonio Rampino, Manuela Basso, Giulio Pergola, Pasquale Di Carlo, Joo H. Shin, Joel E. Kleinman, Thomas M. Hyde, Daniel R. Weinberger, Rita Masellis, Giuseppe Blasi, Maria Pennuto, and Alessandro Bertolino

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department at membership@sfn.org or 202-962-4911.

For current submission policies and manuscript preparation guidelines, authors should refer to our Information for Authors at <https://www.jneurosci.org/content/information-authors>.

Manuscripts should be submitted online at <https://jneurosci.msubmit.net>. Please contact the Central Office with any questions at jn@sfn.org or 202-962-4000.