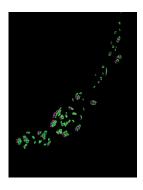


April 1, 2020 • Volume 40 Number 14 • www.jneurosci.org



Cover legend: This image shows the presence of multiple T-bars, marked by the cytoskeletal protein Bruchpilot (green), at active zones of neuromuscular junction synapses in Drosophila larvae deficient in glutamate receptor subunit GluRIIC. Remaining glutamate receptors are labeled by GluRIID antibody (magenta). For more information, see the article byHong et al. (pages 2817–2827).

2789 This Week in The Journal

Journal Club

2790 The Joyful Reduction of Uncertainty: Music Perception as a Window to Predictive Neuronal Processing Nils Kraus

Research Articles

CELLULAR/MOLECULAR

2793 The Relationship Between Glutamate Dynamics and Activity-Dependent Synaptic Plasticity
Jocelyn R. Barnes, Bandhan Mukherjee, Ben C. Rogers, Firoozeh Nafar,

Madeline Gosse, and Matthew P. Parsons

2808 Direct Interaction of PP2A Phosphatase with GABA_B Receptors Alters Functional Signaling
Xiaofan Li, Miho Terunuma, Tarek G. Deeb, Shari Wiseman,
Menelas N. Pangalos, Angus C. Nairn, Stephen J. Moss, and Paul A. Slesinger

2817 Structural Remodeling of Active Zones Is Associated with Synaptic Homeostasis
Huilin Hong, Kai Zhao, Shiyan Huang, Sheng Huang, Aiyu Yao, Yuqiang Jiang,
Stephan Sigrist, Lu Zhao, and Yong Q. Zhang

DEVELOPMENT/PLASTICITY/REPAIR

2828 Activity Dependent and Independent Determinants of Synaptic Size Diversity
Liran Hazan and Noam E. Ziv

SYSTEMS/CIRCUITS

2849 Cortico-Thalamo-Cortical Circuits of Mouse Forelimb S1 Are Organized Primarily as Recurrent Loops

KuangHua Guo, Naoki Yamawaki, John M. Barrett, Martinna Tapies, and Gordon M. G. Shepherd

2859 Parkinsonian Beta Dynamics during Rest and Movement in the Dorsal Pallidum and Subthalamic Nucleus

Robert S. Eisinger, Jackson N. Cagle, Enrico Opri, Jose Alcantara, Stephanie Cernera, Kelly D. Foote, Michael S. Okun, and Aysegul Gunduz

2868 Abundance Compensates Kinetics: Similar Effect of Dopamine Signals on D1 and D2 Receptor Populations

Lars Hunger, Arvind Kumar, and Robert Schmidt

Regulating Modulates Cerebellar Granule Cell Spiking by Regulating the Balance of Synaptic Excitation and Inhibition

Taylor R. Fore, Benjamin N. Taylor, Nicolas Brunel, and Court Hull

2895 Sleep Differentially Affects Early and Late Neuronal Responses to Sounds in Auditory and Perirhinal Cortices

Yaniv Sela, Aaron Joseph Krom, Lottem Bergman, Noa Regev, and Yuval Nir

BEHAVIORAL/COGNITIVE

2906 Differential Effects of Awareness and Task Relevance on Early and Late ERPs in a No-Report Visual Oddball Paradigm

Insa Schlossmacher, Torge Dellert, Michael Pitts, Maximilian Bruchmann, and Thomas Straube

2914 Sensory Modality-Independent Activation of the Brain Network for Language Sophie Arana, André Marquand, Annika Hultén, Peter Hagoort, and Jan-Mathijs Schoffelen

2925 Human Lateral Frontal Pole Contributes to Control over Emotional Approach–Avoidance Actions

Bob Bramson, Davide Folloni, Lennart Verhagen, Bart Hartogsveld, Rogier B. Mars, Ivan Toni, and Karin Roelofs

2935 Dopamine Receptor Dop1R2 Stabilizes Appetitive Olfactory Memory through the Raf/MAPK Pathway in *Drosophila*

Huan Sun, Tomoki Nishioka, Shun Hiramatsu, Shu Kondo, Mutsuki Amano, Kozo Kaibuchi, Toshiharu Ichinose, and Hiromu Tanimoto

NEUROBIOLOGY OF DISEASE

2943 Loss of Piccolo Function in Rats Induces Cerebellar Network Dysfunction and Pontocerebellar Hypoplasia Type 3-like Phenotypes

Joanne Falck, Christine Bruns, Sheila Hoffmann-Conaway, Isabelle Straub, Erik J. Plautz, Marta Orlando, Humaira Munawar, Marion Rivalan, York Winter, Zsuzsanna Izsvák, Dietmar Schmitz, F. Kent Hamra, Stefan Hallermann, Craig Curtis Garner, and Frauke Ackermann

2960 Microglial Depletion with CSF1R Inhibitor During Chronic Phase of Experimental Traumatic Brain Injury Reduces Neurodegeneration and Neurological Deficits
Rebecca J. Henry, Rodney M. Ritzel, James P. Barrett, Sarah J. Doran, Yun Jiao, Jennie B. Leach, Gregory L. Szeto, Junfang Wu, Bogdan A. Stoica, Alan I. Faden, and David J. Loane

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.