This image shows cortical slow waves in sleeping young and older mice. The top eight traces show local field potentials and corresponding neural activity from a young mouse, and the bottom eight traces are the same for a two-year old mouse. Contrary to the widely held notion that aging is associated with a reduced capacity to generate slow waves (the key feature of sleep implicated in its restorative functions and synaptic plasticity), this image shows that slow-wave activity remains intact in older mice. For more information, see the article by McKillop et al. (pages 3911–3928).

**Research Articles**

**CELLULAR/MOLECULAR**

3901 Kainate Receptors Inhibit Glutamate Release Via Mobilization of Endocannabinoids in Striatal Direct Pathway Spiny Projection Neurons
John J. Marshall, Jian Xu, and Anis Contractor

3939 A Gain-of-Function Mutation in the α9 Nicotinic Acetylcholine Receptor Alters Medial Olivocochlear Efferent Short-Term Synaptic Plasticity
Carolina Wedemeyer, Lucas G. Vattino, Marcelo J. Moglie, Jimena Ballestero, Stéphane F. Maisin, Mariano N. Di Guilmi, Julian Taranda, M. Charles Liberman, Paul A. Fuchs, Eleonora Katz, and Ana Belén Elgoyhen

4006 HIPK2-Mediated Transcriptional Control of NMDA Receptor Subunit Expression Regulates Neuronal Survival and Cell Death
Yulei Shang, Jiasheng Zhang, and Eric J. Huang

3971 Variations in Ca\(^{2+}\) Influx Can Alter Chelator-Based Estimates of Ca\(^{2+}\) Channel–Synaptic Vesicle Coupling Distance
Yukihiro Nakamura, Maria Reva, and David A. DiGregorio

**DEVELOPMENT/PLASTICITY/REPAIR**

3880 Fractone Bulbs Derive from Ependymal Cells and Their Laminin Composition Influence the Stem Cell Niche in the Subventricular Zone
Marcos Assis Nascimento, Lydia Sorokin, and Tatiana Coelho-Sampaio

3890 Major Vault Protein, a Candidate Gene in 16p11.2 Microdeletion Syndrome, Is Required for the Homeostatic Regulation of Visual Cortical Plasticity

**SYSTEMS/CIRCUITS**

3929 Convergent Spinal Circuits Facilitating Human Wrist Flexors
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Robust Visual Responses and Normal Retinotopy in Primate Lateral Geniculate Nucleus following Long-term Lesions of Striate Cortex
Hsin-Hao Yu, Nafiseh Atapour, Tristan A. Chaplin, Katrina H. Worthy, and Marcello G.P. Rosa

Modified Origins of Cortical Projections to the Superior Colliculus in the Deaf: Dispersion of Auditory Efferents
Blake E. Butler, Julia K. Sunstrum, and Stephen G. Lomber

Cholinergic Modulation of Frontoparietal Cortical Network Dynamics Supporting Supramodal Attention
Vladimir Ljubojevic, Paul Luu, Patrick Robert Gill, Lee-Anne Beckett, Kaori Takehara-Nishiuchi, and Eve De Rosa

Visual Mismatch and Predictive Coding: A Computational Single-Trial ERP Study
Gabor Stefanics, Jakob Heinze, András Attila Horváth, and Klaas Enno Stephan

Effects of Aging on Cortical Neural Dynamics and Local Sleep Homeostasis in Mice
Laura E. McKillop, Simon P. Fisher, Nanyi Cui, Stuart N. Peirson, Russell G. Foster, Keith A. Wafford, and Vladyslav V. Vyazovskiy

Primary Traumatic Axonopathy in Mice Subjected to Impact Acceleration: A Reappraisal of Pathology and Mechanisms with High-Resolution Anatomical Methods
Nikolaos K. Ziogas and Vassilis E. Koliatsos

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