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Cover legend: Artistic rendering of time–frequency plots of electrocorticographic signals recorded subdurally while human subjects said monosyllabic words. These signals revealed unique spectral patterns associated with different speech activities. For more information, see the article by Gaona et al. in this issue (pages 2091–2100).

i This Week in The Journal

Journal Club

- 1935 **Corticotropin-Releasing Factor in the Hippocampus: Eustress or Distress?**
Christopher M. Stern

Brief Communications

- 1944 **Direct Corticospinal Control of Force Derivative**
Oscar Soto and Didier Cros
- 2009 **Actin Polymerization Is Essential for Myelin Sheath Fragmentation during Wallerian Degeneration**
Junyang Jung, Wenting Cai, Hyun Kyoung Lee, Marta Pellegatta, Yoon Kyung Shin, So Young Jang, Duk Joon Suh, Lawrence Wrabetz, M. Laura Feltri, and Hwan Tae Park

Articles

CELLULAR/MOLECULAR

- 1991 **Activity-Dependent Regulation of Surface Glucose Transporter-3**
Jainne M. Ferreira, Arthur L. Burnett, and Gerald A. Rameau
- 2000 **Active Zones and the Readily Releasable Pool of Synaptic Vesicles at the Neuromuscular Junction of the Mouse**
Rocío Ruiz, Raquel Cano, Juan José Casañas, Michael A. Gaffield, William J. Betz, and Lucía Tabares
- 2136 **Cations But Not Anions Regulate the Responsiveness of Kainate Receptors**
David M. MacLean, Adrian Y. C. Wong, Anne-Marie Fay, and Derek Bowie
- 2156 **Two Layers of Synaptic Processing by Principal Neurons in Piriform Cortex**
Norimitsu Suzuki and John M. Bekkers
- 2180 **Lyn Kinase Regulates Mesolimbic Dopamine Release: Implication for Alcohol Reward**
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- 2188 **PICK1 Loss of Function Occludes Homeostatic Synaptic Scaling**
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- 2216 **The *Caenorhabditis elegans* JIP3 Protein UNC-16 Functions As an Adaptor to Link Kinesin-1 with Cytoplasmic Dynein**
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- 2225 **LRRK2 Controls Synaptic Vesicle Storage and Mobilization within the Recycling Pool**
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- 2248 **Membrane Penetration by Synaptotagmin Is Required for Coupling Calcium Binding to Vesicle Fusion *In Vivo***
Brie E. Paddock, Zhao Wang, Laurie M. Biela, Kaiyun Chen, Michael D. Getzy, Amelia Striegel, Janet E. Richmond, Edwin R. Chapman, David E. Featherstone, and Noreen E. Reist
- 2258 **Role of Extracellular Signal-Regulated Kinase in Synaptic Transmission and Plasticity of a Nociceptive Input on Capsular Central Amygdaloid Neurons in Normal and Acid-Induced Muscle Pain Mice**
Sin-Jhong Cheng, Chien-Chang Chen, Hsiu-Wen Yang, Ya-Ting Chang, Shin-Wen Bai, Chih-Cheng Chen, Chen-Tung Yen, and Ming-Yuan Min

DEVELOPMENT/PLASTICITY/REPAIR

- 1955 **Heparan Sulfate Sugar Modifications Mediate the Functions of *Slits* and Other Factors Needed for Mouse Forebrain Commissure Development**
Christopher D. Conway, Kathy M. Howe, Nicole K. Nettleton, David J. Price, John O. Mason, and Thomas Pratt
- 2167 **The UNC5C Netrin Receptor Regulates Dorsal Guidance of Mouse Hindbrain Axons**
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- 2205 **Fragile X Mental Retardation Protein Regulates New Neuron Differentiation in the Adult Olfactory Bulb**
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- 2271 **Dual Encoding of Muscle Tension and Eye Position by Abducens Motoneurons**
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- 2337 **Rapamycin Suppresses Mossy Fiber Sprouting But Not Seizure Frequency in a Mouse Model of Temporal Lobe Epilepsy**
Paul S. Buckmaster and Felicia H. Lew

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- 1949 **A Circuit Model for Saccadic Suppression in the Superior Colliculus**
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- 1971 **Infragranular Sources of Sustained Local Field Potential Responses in Macaque Primary Visual Cortex**
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- 1981 **Control of Breathing by Raphe Obscurus Serotonergic Neurons in Mice**
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- 2016 **Orienting Attention to an Upcoming Tactile Event Involves a Spatially and Temporally Specific Modulation of Sensorimotor Alpha- and Beta-Band Oscillations**
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- 2025 **A Subtraction Mechanism of Temporal Coding in Cerebellar Cortex**
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- 2064 **Visuotopic Organization of Macaque Posterior Parietal Cortex: A Functional Magnetic Resonance Imaging Study**
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- 2079 **Region-Specific Involvement of BDNF Secretion and Synthesis in Conditioned Taste Aversion Memory Formation**
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- 2091 **Nonuniform High-Gamma (60–500 Hz) Power Changes Dissociate Cognitive Task and Anatomy in Human Cortex**
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- 2113 **Spinal Phosphoinositide 3-Kinase–Akt–Mammalian Target of Rapamycin Signaling Cascades in Inflammation-Induced Hyperalgesia**
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- 2145 **Fine Spatial Information Represented in a Population of Retinal Ganglion Cells**
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- 2238 **Polarization-Sensitive Descending Neurons in the Locust: Connecting the Brain to Thoracic Ganglia**
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- 2305 **Cerebellar Plasticity and the Automation of First-Order Rules**
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- 2321 **Spike-Train Communities: Finding Groups of Similar Spike Trains**
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- 1937 **Trigeminal Nociceptive Transmission in Migraineurs Predicts Migraine Attacks**
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- 2035 **α -Synuclein Negatively Regulates Protein Kinase C δ Expression to Suppress Apoptosis in Dopaminergic Neurons by Reducing p300 Histone Acetyltransferase Activity**
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- 2052 ***Drosophila* Acyl-CoA Synthetase Long-Chain Family Member 4 Regulates Axonal Transport of Synaptic Vesicles and Is Required for Synaptic Development and Transmission**
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- 2101 **Extracellular Spermine Exacerbates Ischemic Neuronal Injury through Sensitization of ASIC1a Channels to Extracellular Acidosis**
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- 2125 **Akt Suppresses Retrograde Degeneration of Dopaminergic Axons by Inhibition of Macroautophagy**
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- 2280 **Network Oscillations in Rod-Degenerated Mouse Retinas**
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- 2292 **p75NTR Regulates A β Deposition by Increasing A β Production But Inhibiting A β Aggregation with Its Extracellular Domain**
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- 2313 **Inhibition of Amyloid- β (A β) Peptide-Binding Alcohol Dehydrogenase-A β Interaction Reduces A β Accumulation and Improves Mitochondrial Function in a Mouse Model of Alzheimer's Disease**
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Correction: In This Week in The Journal in the January 26, 2011 issue, the description of the Chuhma et al. article incorrectly stated that MSNs “formed synapses with most SNr dopaminergic neurons, but none with substantia nigra pars compacta neurons.” This should have read, “they formed synapses with most SNr GABAergic neurons, but none with substantia nigra pars compacta dopaminergic neurons.”

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