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Cover legend: Chili peppers owe their pungency to capsaicinoids, compounds with transient receptor potential vanilloid-1 (TRPV1) agonistic activity. In the photo, a TRPV1 knockout mouse eats a habanero chili (*Capsicum chinense*), one of the hottest chili peppers, with a reported pungency of up to 300,000 Scoville units. The mouse consumes even the hottest parts of the habanero fruit—the septa and seeds. TRPV1 knockout mice also show locomotor hyperactivity and a predisposition to age-associated obesity. Photography and editing by Andrej A. and Nancy L. Romanovsky. For more information, see the article by Garami et al. in this issue (pages 1721–1733).

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- 1561 **Dopaminergic Signaling in Cost-Benefit Analyses: A Matter of Time, Effort, or Uncertainty?**
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- 1579 **What Does Local Functional Hyperemia Tell about Local Neuronal Activation?**
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- 1600 **Human Basal Ganglia and the Dynamic Control of Force during On-Line Corrections**
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- 1688 **Tau Protein Is Required for Amyloid β -Induced Impairment of Hippocampal Long-Term Potentiation**
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- 1734 **Absence of Large-Scale Dendritic Plasticity of Layer 5 Pyramidal Neurons in Peri-Infarct Cortex**
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- 1820 **Superior Facial Expression, But Not Identity Recognition, in Mirror-Touch Synesthesia**
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- 1746 **Selective Toxicity by HDAC3 in Neurons: Regulation by Akt and GSK3 β**
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- 1752 **Influence of GABA_AR Monoliganded States on GABAergic Responses**
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- 1811 **Arrestin in Ciliary Invertebrate Photoreceptors: Molecular Identification and Functional Analysis *In Vivo***
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- 1676 **Wnt Signaling Regulates Neuronal Differentiation of Cortical Intermediate Progenitors**
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- 1739 **SDF1 Regulates Leading Process Branching and Speed of Migrating Interneurons**
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- 1773 **CRMP5 (Collapsin Response Mediator Protein 5) Regulates Dendritic Development and Synaptic Plasticity in the Cerebellar Purkinje Cells**
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- 1825 **Suppressor of Fused Controls Mid-Hindbrain Patterning and Cerebellar Morphogenesis via GLI3 Repressor**
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- 1919 **Subregional Specification of Embryonic Stem Cell-Derived Ventral Telencephalic Tissues by Timed and Combinatory Treatment with Extrinsic Signals**
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- 1570 **Separate Visual Signals for Saccade Initiation during Target Selection in the Primate Superior Colliculus**
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- 1583 **The Anterior Piriform Cortex Is Sufficient for Detecting Depletion of an Indispensable Amino Acid, Showing Independent Cortical Sensory Function**
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- 1591 **μ -Opioid Receptor Activation in the Basolateral Amygdala Mediates the Learning of Increases But Not Decreases in the Incentive Value of a Food Reward**
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- 1606 **Dopamine-Mediated Reinforcement Learning Signals in the Striatum and Ventromedial Prefrontal Cortex Underlie Value-Based Choices**
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- 1635 **Memory Retrieval and the Passage of Time: From Reconsolidation and Strengthening to Extinction**
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- 1693 **Disrupting Function of FK506-Binding Protein 1b/12.6 Induces the Ca^{2+} -Dysregulation Aging Phenotype in Hippocampal Neurons**
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- 1704 **Dynamic Changes in Superior Temporal Sulcus Connectivity during Perception of Noisy Audiovisual Speech**
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- 1715 **Auditory Cortex Encodes the Perceptual Interpretation of Ambiguous Sound**
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- 1721 **Thermoregulatory Phenotype of the *Trpv1* Knockout Mouse: Thermoeffector Dysbalance with Hyperkinesia**
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- 1762 **Horizontal Cell Feedback without Cone Type-Selective Inhibition Mediates “Red–Green” Color Opponency in Midget Ganglion Cells of the Primate Retina**
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- 1780 **Posterior Medial Frontal Cortex Activity Predicts Post-Error Adaptations in Task-Related Visual and Motor Areas**
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- 1790 **Cortical Connections of Area V6Av in the Macaque: A Visual-Input Node to the Eye/Hand Coordination System**
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- 1802 **Calcitonin Gene-Related Peptide in the Bed Nucleus of the Stria Terminalis Produces an Anxiety-Like Pattern of Behavior and Increases Neural Activation in Anxiety-Related Structures**
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- 1873 **Leptin-Receptor-Expressing Neurons in the Dorsomedial Hypothalamus and Median Preoptic Area Regulate Sympathetic Brown Adipose Tissue Circuits**
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- 1905 **Gateways of Ventral and Dorsal Streams in Mouse Visual Cortex**
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- 1624 **Sensory Neuropathy Attributable to Loss of Bcl-w**
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- 1644 **Heparan Sulphate Proteoglycan and the Low-Density Lipoprotein Receptor-Related Protein 1 Constitute Major Pathways for Neuronal Amyloid- β Uptake**
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- 1664 **Anti-Ganglioside Antibody-Mediated Activation of RhoA Induces Inhibition of Neurite Outgrowth**
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- 1837 **Sphingolipid Storage Affects Autophagic Metabolism of the Amyloid Precursor Protein and Promotes A β Generation**
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- 1850 **The Distinct Role of Medium Spiny Neurons and Cholinergic Interneurons in the D₂/A_{2A} Receptor Interaction in the Striatum: Implications for Parkinson's Disease**
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- 1863 **Maternal Influenza Viral Infection Causes Schizophrenia-Like Alterations of 5-HT_{2A} and mGlu₂ Receptors in the Adult Offspring**
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- 1885 **Rescue of Progranulin Deficiency Associated with Frontotemporal Lobar Degeneration by Alkalinizing Reagents and Inhibition of Vacuolar ATPase**
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- 1895 **Cocaine-Induced Plasticity in the Nucleus Accumbens Is Cell Specific and Develops without Prolonged Withdrawal**
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