Cephalopods have large brains and complex behaviors, but little is known about their responses to injury and noxious sensations. In this issue, nociceptors are described in the squid 

Doryteuthis pealeii. Squid nociceptors are activated by noxious mechanical stimuli, and after minor tissue injury, long-term sensitization and spontaneous activity occur in nociceptors close to and distant from localized wounds. For more information, see Crook et al. (pages 10021–10026).

Journal Club

Pallidal Deep Brain Stimulation Modulates Afferent Fibers, Efferent Fibers, and Glia
Jay J. Jantz and Masayuki Watanabe

From Dendritic Compartments to Neuronal Networks: A Multilevel Analysis of Motion Vision
Peter T. Weir and Marie P. Suver

Brief Communications

Activation of NF-κB in Schwann Cells Is Dispensable for Myelination In Vivo
Paul D. Morton, Anna Dellarole, Michelle H. Theus, Winston M. Walters, Summer S. Berge, and John R. Bethea

Neurons within the Same Network Independently Achieve Conserved Output by Differentially Balancing Variable Conductance Magnitudes
Joseph L. Ransdell, Satish S. Nair, and David J. Schulz

ProBDNF and Mature BDNF as Punishment and Reward Signals for Synapse Elimination at Mouse Neuromuscular Junctions
H. Shawn Je, Feng Yang, Yuanyuan Ji, Srilatha Potluri, Xiu-Qing Fu, Zhen-Ge Luo, Guhan Nagappan, Jia Pei Chan, Barbara Hempstead, Young-Jin Son, and Bai Lu

Squid Have Nociceptors That Display Widespread Long-Term Sensitization and Spontaneous Activity after Bodily Injury
Robyn J. Crook, Roger T. Hanlon, and Edgar T. Walters

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The Sphingolipid Psychosine Inhibits Fast Axonal Transport in Krabbe Disease by Activation of GSK3β and Deregulation of Molecular Motors
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AZ-4217: A High Potency BACE Inhibitor Displaying Acute Central Efficacy in Different In Vivo Models and Reduced Amyloid Deposition in Tg2576 Mice
TRPA1 Channels Are Regulators of Astrocyte Basal Calcium Levels and Long-Term Potentiation via Constitutive δ-Serine Release
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Jenna M. Ramaker, Tracy L. Swanson, and Philip F. Copenhaver

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Queueing of Concurrent Movement Plans by Basal Ganglia
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The 5-HT₅A Receptor Regulates Excitability in the Auditory Startle Circuit: Functional Implications for Sensorimotor Gating
Paul C. Curtin, Violeta Medan, Heike Neumeister, Daniel R. Bronson, and Thomas Preuss

Retinal Input Regulates the Timing of Corticogeniculate Innervation
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BEHAVIORAL/COGNITIVE

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Reduced Striatal Responses to Reward Prediction Errors in Older Compared with Younger Adults
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Rapid Sensitization of Physiological, Neuronal, and Locomotor Effects of Nicotine: Critical Role of Peripheral Drug Actions
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The New Small-Molecule Mixed-Lineage Kinase 3 Inhibitor URMC-099 Is Neuroprotective and Anti-Inflammatory in Models of Human Immunodeficiency Virus-Associated Neurocognitive Disorders
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Sympathetic Fiber Sprouting in Inflamed Joints and Adjacent Skin Contributes to Pain-Related Behavior in Arthritis
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A Novel Brain Penetrant NPS Receptor Antagonist, NCGC00185684, Blocks Alcohol-Induced ERK-Phosphorylation in the Central Amygdala and Decreases Operant Alcohol Self-Administration in Rats
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Calcium Entry and α-Synuclein Inclusions Elevate Dendritic Mitochondrial Oxidant Stress in Dopaminergic Neurons


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