



Cover legend: This image shows keratinocytes (green), proliferating cells (white), inflammatory cells (red), and cell nuclei (blue) associated with a skin tumor in a one-year-old mouse lacking PTEN, a protein that regulates cell growth and proliferation. Although loss of PTEN is associated with several cancers, it can also promote axon regeneration in the CNS and PNS. For more information, see the article by Meyer zu Reckendorf et al. (pages 2474–2491). Cover image: Sofia Meyer zu Reckendorf.

2384 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 2385 Single Calcium Channel Nanodomains Drive Presynaptic Calcium Entry at Lamprey Reticulospinal Presynaptic Terminals**
Shankar Ramachandran, Shelagh Rodriguez, Mariana Potcoava, and Simon Alford
- 2404 Mu Opioid Receptors Acutely Regulate Adenosine Signaling in Striatal Glutamate Afferents**
Sweta Adhikary, Elizabeth R. Jaeckel, and William T. Birdsong
- 2418 Repetitive Mild Closed Head Injury in Adolescent Mice Is Associated with Impaired Proteostasis, Neuroinflammation, and Tauopathy**
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- 2433 ADAM17 Regulates p75^{NTR}-Mediated Fibrinolysis and Nerve Remyelination**
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- 2448 SIPA1L1/SPAR1 Interacts with the Neurabin Family of Proteins and is Involved in GPCR Signaling**
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DEVELOPMENT/PLASTICITY/REPAIR

- 2474 Motoneuron-Specific PTEN Deletion in Mice Induces Neuronal Hypertrophy and Also Regeneration after Facial Nerve Injury**
Sofia Meyer zu Reckendorf, Diana Moser, Anna Blechschmidt, Venkata Neeha Joga, Daniela Sinske, Jutta Hegler, Stefanie Deininger, Alberto Catanese, Sabine Vettorazzi, Gregor Antoniadis, Tobias Boeckers, and Bernd Knöll

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- 2503 **Human NREM Sleep Promotes Brain-Wide Vasomotor and Respiratory Pulsations**
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- 2524 **Adaptive Learning through Temporal Dynamics of State Representation**
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- 2552 **Chronic Behavioral Manipulation via Orally Delivered Chemogenetic Actuator in Macaques**
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- 2562 **Dissociating the Neural Correlates of Subjective Visibility from Those of Decision Confidence**
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- 2570 **Behavioral and Neural Dissociation of Social Anxiety and Loneliness**
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NEUROBIOLOGY OF DISEASE

- 2584 **Anastasis Drives Senescence and Non-Cell Autonomous Neurodegeneration in the Astroglial Pathology of Alzheimer Disease**
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- 2598 **A Farnesyltransferase Inhibitor Restores Cognitive Deficits in *Tsc2*^{+/-} Mice through Inhibition of Rheb1**
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