



Cover legend: This image shows a male American Bullfrog in an Ontario, Canada, pond. This species has adapted to live at different temperatures ranging from Canada to subtropical Brazil. The large external tympanic membrane has an overlaid image of a single auditory hair cell from the amphibian papilla.

Different colors show the stereocilia bundle (red), pear-shaped soma (blue) and two connected afferent fibers with thin (yellow) and thick (green) calibers. (Credits: Alamy stock photo and Dr. Geng-Lin Li). See paper by Chen and von Gersdorff in this issue. (Pages 7260–7276).

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- 7228 **Gender in Science, Technology, Engineering, and Mathematics: Issues, Causes, Solutions**
Tessa E.S. Charlesworth and Mahzarin R. Banaji

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- 7260 **How to Build a Fast and Highly Sensitive Sound Detector That Remains Robust to Temperature Shifts**
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- 7277 **Distinct Properties of Layer 3 Pyramidal Neurons from Prefrontal and Parietal Areas of the Monkey Neocortex**
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- 7291 **Akt Phosphorylates NQO1 and Triggers its Degradation, Abolishing Its Antioxidative Activities in Parkinson's Disease**
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- 7306 **Dynamic Interaction between Cortico-Brainstem Pathways during Training-Induced Recovery in Stroke Model Rats**
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7332 **Functional Architecture and Encoding of Tactile Sensorimotor Behavior in Rat Posterior Parietal Cortex**

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7357 **The Conditions under Which Consolidation of Serial-Order Conditioned Fear Requires *De Novo* Protein Synthesis in the Basolateral Amygdala Complex**

Matthew J. Williams-Spooner, R. Frederick Westbrook, and Nathan M. Holmes

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Fangfang Wu, Bing Han, Shusheng Wu, Li Yang, Shuo Leng, Mingyue Li, Jiefeng Liao, Guangtian Wang, Qingqing Ye, Yuan Zhang, Haifeng Chen, Xufeng Chen, Ming Zhong, Yun Xu, Qiang Liu, John H. Zhang, and Honghong Yao

7394 **Separate vmPFC Ensembles Control Cocaine Self-Administration Versus Extinction in Rats**

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7408 **Differential Signaling Mediated by ApoE2, ApoE3, and ApoE4 in Human Neurons Parallels Alzheimer's Disease Risk**

Yu-Wen Alvin Huang, Bo Zhou, Amber M. Nabet, Marius Wernig, and Thomas C. Südhof

7428 **Reciprocal Predictive Relationships between Amyloid and Tau Biomarkers in Alzheimer's Disease Progression: An Empirical Model**

Saffire H. Krance, Hugo Cogo-Moreira, Jennifer S. Rabin, Sandra E. Black, Walter Swardfager, for the Alzheimer's Disease Neuroimaging Initiative

7438 **An Epilepsy-Associated KCNT1 Mutation Enhances Excitability of Human iPSC-Derived Neurons by Increasing Slack K_{Na} Currents**

Imran H. Quraishi, Shani Stern, Kile P. Mangan, Yalan Zhang, Syed R. Ali, Michael R. Mercier, Maria C. Marchetto, Michael J. McLachlan, Eugenia M. Jones, Fred H. Gage, and Leonard K. Kaczmarek

7450 **Erratum:** The article "Intricate Interplay between Innate Immune Cells and TRMP2 in a Mouse Model of Multiple Sclerosis" by Céline Caravagna, appeared on pages 2366–2368 of the March 27, 2019 issue. An erratum for this article appears on p. 7450.

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