



Cover legend: This image shows myelin (cyan) and axons (magenta) of dorsal root ganglia neurons taken from embryonic day 13.5 mice and cultured for 12 days to allow axonal growth and myelination. Schwann cell nuclei are labeled with Dapi (blue). For more information, see the article by Sidoli et al. (pages 4536–4548). Cover image: Mariapaola Sidoli.

4366 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

4367 Increased Excitatory Synaptic Transmission Associated with Adult Seizure Vulnerability Induced by Early-Life Inflammation in Mice

Carlos D. Gomez, Shaona Acharjee, Megan L. Lewis, Justin Read, and Quentin J. Pittman

4378 New Tmc1 Deafness Mutations Impact Mechanotransduction in Auditory Hair Cells

Maryline Beurg, Lisa A. Schimmenti, Alaa Koleilat, Sami S. Amr, Andrea Oza, Amanda Barlow, Angela Ballesteros, and Robert Fettiplace

4392 Er81 Transcription Factor Fine-Tunes Striatal Cholinergic Interneuron Activity and Drives Habit Formation

Noorya Yasmin Ahmed, Yadollah Ranjbar-Slamloo, Alice Shaam Al Abed, Lingxiao Gao, Yovina Sontani, Alexandre RCom-H'cheo-Gauthier, Ehsan Arabzadeh, and Nathalie Dehorter

DEVELOPMENT/PLASTICITY/REPAIR

4410 Early Life Nociception is Influenced by Peripheral Growth Hormone Signaling

Adam J. Dourson, Zachary K. Ford, Kathryn J. Green, Carolyn E. McCrossan, Megan C. Hofmann, Renita C. Hudgins, and Michael P. Jankowski

SYSTEMS/CIRCUITS

4428 Predictive Visual Motion Extrapolation Emerges Spontaneously and without Supervision at Each Layer of a Hierarchical Neural Network with Spike-Timing-Dependent Plasticity

Anthony N. Burkitt and Hinze Hogendoorn

4439 Primary Neural Degeneration in Noise-Exposed Human Cochleas: Correlations with Outer Hair Cell Loss and Word-Discrimination Scores

Pei-Zhe Wu, Jennifer T. O'Malley, Victor de Gruttola, and M. Charles Liberman

BEHAVIORAL/COGNITIVE

4448 Anterior Cingulate Cortex Lesions Abolish Budget Effects on Effort-Based Decision-Making in Rat Consumers

Yue Hu (胡悦), Marijn van Wingerden, Manuela Sellitto, Sandra Schäble, and Tobias Kalenscher

4461 A Hierarchy of Functional States in Working Memory

Paul S. Muhle-Karbe, Nicholas E. Myers, and Mark G. Stokes

- 4476 **Perceptual Learning beyond Perception: Mnemonic Representation in Early Visual Cortex and Intraparietal Sulcus**
Ke Jia (贾珂), Ya Li (李雅), Mengyuan Gong (龚梦园), Hui Huang(黄晖), Yonghui Wang(王勇慧), and Sheng Li (李晟)
- 4487 **Prefrontal Responses during Proactive and Reactive Inhibition Are Differentially Impacted by Stress in Anorexia and Bulimia Nervosa**
Margaret L. Westwater, Flavia Mancini, Adam X. Gorka, Jane Shapleske, Jaco Serfontein, Christian Grillon, Monique Ernst, Hisham Ziauddeen, and Paul C. Fletcher
- 4500 **Ventral Pallidum GABA Neurons Mediate Motivation Underlying Risky Choice**
Mitchell R. Farrell, Jeanine Sandra D. Esteban, Lauren Faget, Stan B. Floresco, Thomas S. Hnasko, and Stephen V. Mahler
- 4514 **Temporal Context Actively Shapes EEG Signatures of Time Perception**
Atser Damsma, Nadine Schlichting, and Hedderik van Rijn

NEUROBIOLOGY OF DISEASE

- 4524 **CAPS2 Deficiency Impairs the Release of the Social Peptide Oxytocin, as Well as Oxytocin-Associated Social Behavior**
Shuhei Fujima, Ryosuke Yamaga, Haruka Minami, Shota Mizuno, Yo Shinoda, Tetsushi Sadakata, Manabu Abe, Kenji Sakimura, Yoshitake Sano, and Teichi Furuichi
- 4536 **Calcineurin Activity Is Increased in Charcot-Marie-Tooth 1B Demyelinating Neuropathy**
Mariapaola Sidoli, Chelsey B. Reed, Cristina Scapin, Pablo Paez, Douglas R. Cavener, Randal J. Kaufman, Maurizio D'Antonio, M. Laura Feltri, and Lawrence Wrabetz

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