



**Cover legend:** Immunofluorescent image of a cross section of a non-human primate (*Macaca fascicularis*) spinal cord, dosed intravenously with HSC15/ARSA-V5 gene therapy vector demonstrating successful ARSA-V5 expression (magenta) in cells, including neurons and glia, that endogenously express cynomolgus Arsa (green) and where colocalization of both signals appears in white. The detection of an ARSA-V5 signal in the spinal cord confirms that HSC15/ARSA-V5 crossed the blood–brain barrier in larger species. For more information, see the article by St. Martin et al. (pages 3567–3581). Cover image: Tania A. Seabrook.

## 3391 This Week in The Journal

### Journal Club

- 3392 **Motion Processing and Categorical Decisions in Medial Superior Temporal and Lateral Intraparietal Areas**  
Jung Uk Kang

### Research Articles

#### CELLULAR/MOLECULAR

- 3394 ***Drosophila* Tachykininergic Neurons Modulate the Activity of Two Groups of Receptor-Expressing Neurons to Regulate Aggressive Tone**  
Margot P. Wohl, Jett Liu, and Kenta Asahina
- 3421 **Mitofusin 2 Sustains the Axonal Mitochondrial Network to Support Presynaptic Ca<sup>2+</sup> Homeostasis and the Synaptic Vesicle Cycle in Rat Hippocampal Axons**  
Jason D. Vevea and Edwin R. Chapman

#### DEVELOPMENT/PLASTICITY/REPAIR

- 3439 **Interleukin (IL)-1 Receptor Signaling Is Required for Complete Taste Bud Regeneration and the Recovery of Neural Taste Responses following Axotomy**  
Guangkuo Dong, Schuyler Kogan, Natasha Venugopal, Eddy Chang, Lianying He, Fama Faal, Yang Shi, and Lynnette Phillips McCluskey

#### SYSTEMS/CIRCUITS

- 3456 **The 3D Structural Architecture of the Human Hand Area Is Nontopographic**  
Juliane Doehler, Alicia Northall, Peng Liu, Alessio Fracasso, Anastasia Chrysidou, Oliver Speck, Gabriele Lohmann, Thomas Wolbers, and Esther Kuehn
- 3477 **Face-Selective Patches in Marmosets Are Involved in Dynamic and Static Facial Expression Processing**  
Audrey Dureux, Alessandro Zanini, and Stefan Everling
- 3495 **Impact of Acute Visual Experience on Development of LGN Receptive Fields in the Ferret**  
Andrea K. Stacy, Nathan A. Schneider, Noah K. Gilman, and Stephen D. Van Hooser

#### BEHAVIORAL/COGNITIVE

- 3509 **Accelerating Maturation of Spatial Memory Systems by Experience: Evidence from Sleep Oscillation Signatures of Memory Processing**  
María P. Contreras, Julia Fechner, Jan Born, and Marion Inostroza

- 3520 **Changes in Resting State Functional Connectivity Associated with Dynamic Adaptation of Wrist Movements**  
Andria J. Farrens, Shahabeddin Vahdat, and Fabrizio Sergi
- 3538 **A Learned Map for Places and Concepts in the Human Medial Temporal Lobe**  
Nora A. Herweg, Lukas Kunz, Daniel Schonhaut, Armin Brandt, Paul A. Wanda, Ashwini D. Sharan, Michael R. Sperling, Andreas Schulze-Bonhage, and Michael J. Kahana
- 3548 **Two Oscillatory Correlates of Attention Control in the Alpha-Band with Distinct Consequences on Perceptual Gain and Metacognition**  
Jelena Trajkovic, Francesco Di Gregorio, Alessio Avenanti, Gregor Thut, and Vincenzo Romei
- 3557 **Poorer White Matter Microstructure Predicts Slower and More Variable Reaction Time Performance: Evidence for a Neural Noise Hypothesis in a Large Lifespan Cohort**  
Ethan M. McCormick, Cambridge Centre for Ageing and Neuroscience, and Rogier A. Kievit

#### NEUROBIOLOGY OF DISEASE

- 3567 **Single Systemic Administration of a Gene Therapy Leading to Disease Treatment in Metachromatic Leukodystrophy *Arsa* Knock-Out Mice**  
Thia St. Martin, Tania A. Seabrook, Katherine Gall, Jenn Newman, Nancy Avila, April Hayes, Monicah Kivaa, Jason Lotterhand, Michael Mercaldi, Kruti Patel, Israel J. Rivas, Stephen Woodcock, Teresa L. Wright, Albert B. Seymour, Omar L. Francone, and Jacinthe Gingras
- 3582 **Cellular Diversity in Human Subgenual Anterior Cingulate and Dorsolateral Prefrontal Cortex by Single-Nucleus RNA-Sequencing**  
Billy Kim, Dowon Kim, Anton Schulmann, Yash Patel, Carolina Caban-Rivera, Paul Kim, Ananya Jambhale, Kory R. Johnson, Ningping Feng, Qing Xu, Sun Jung Kang, Ajeet Mandal, Michael Kelly, Nirmala Akula, Francis J. McMahon, Barbara Lipska, Stefano Marengo, and Pavan K. Auluck

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