



**Cover legend:** This image shows that the black mice are sniffing each other during social interactions. Long-term social isolation during late adolescence causes hyper-sociality in female mice because of reduced expression of the parvalbumin-positive inhibitory neurons in the left orbitofrontal cortex. For more information, see the article by Jeon and Jeong et al. (pages 1555–1571). Cover image: Yi-seon Jeon.

## 1455 This Week in The Journal

### Research Articles

#### CELLULAR/MOLECULAR

#### 1456 USP1/UAF1-Stabilized METTL3 Promotes Reactive Astrogliosis and Improves Functional Recovery after Spinal Cord Injury through m<sup>6</sup>A Modification of YAP1 mRNA

Xuhui Ge, Wu Ye, Yufeng Zhu, Min Cui, Jiawen Zhou, Chenyu Xiao, Dongdong Jiang, Pengyu Tang, Jiaying Wang, Zhuanghui Wang, Chengyue Ji, Xuhui Zhou, Xiaojian Cao, Wei Liu, and Weihua Cai

#### 1475 Synaptotagmin 9 Modulates Spontaneous Neurotransmitter Release in Striatal Neurons by Regulating Substance P Secretion

Michael J. Seibert, Chantell S. Evans, Kevin S. Stanley, Zhenyong Wu, and Edwin R. Chapman

#### DEVELOPMENT/PLASTICITY/REPAIR

#### 1492 AAV Vector Mediated Delivery of NG2 Function Neutralizing Antibody and Neurotrophin NT-3 Improves Synaptic Transmission, Locomotion, and Urinary Tract Function after Spinal Cord Contusion Injury in Adult Rats

Hayk A. Petrosyan, Valentina Alessi, Kristin Lasek, Sricharan Gumudavelli, Robert Muffaletto, Li Liang, William F. Collins III, Joel Levine, and Victor L. Arvanian

#### 1509 Astrocytes Transplanted during Early Postnatal Development Integrate, Mature, and Survive Long Term in Mouse Cortex

Sabrina Chierzi, J. Benjamin Kacerovsky, Albert H. K. Fok, Sylvie Lahaie, Arielle Shibi Rosen, W. Todd Farmer, and Keith K. Murai

#### SYSTEMS/CIRCUITS

#### 1530 Effect of a False Inertial Cue in the Velocity-Storage Circuit on Head Posture and Inertia Perception

Jeong-Yoon Choi, Yu Jin Koo, Jung-Mi Song, Hyo-Jung Kim, and Ji-Soo Kim

#### 1540 Brain State-Dependent Modulation of Thalamic Visual Processing by Cortico-Thalamic Feedback

Kimberly Reinhold, Arbora Resulaj, and Massimo Scanziani

#### 1555 Adolescent Parvalbumin Expression in the Left Orbitofrontal Cortex Shapes Sociability in Female Mice

Yi-Seon Jeon, Daun Jeong, Hanseul Kweon, Jae-Hyun Kim, Choong Yeon Kim, Youngbin Oh, Young-Ho Lee, Chan Hyuk Kim, Sang-Gyu Kim, Jae-Woong Jeong, Eunjoon Kim, and Seung-Hee Lee

- 1572 **Morphology, Connectivity, and Encoding Features of Tactile and Motor Representations of the Fingers in the Human Precentral and Postcentral Gyrus**  
Giulio Mastria, Eugenio Scaliti, Carsten Mehring, Etienne Burdet, Cristina Becchio, Andrea Serino, and Michel Akxelrod

#### BEHAVIORAL/COGNITIVE

- 1590 **Language Experience during Infancy Predicts White Matter Myelination at Age 2 Years**  
Elizabeth Huber, Neva M. Corrigan, Vasily L. Yarnykh, Naja Ferjan Ramírez, and Patricia K. Kuhl
- 1600 **An fMRI-Based Brain Marker of Individual Differences in Delay Discounting**  
Leonie Koban, Sangil Lee, Daniela S. Schelski, Marie-Christine Simon, Caryn Lerman, Bernd Weber, Joseph W. Kable, and Hilke Plassmann

#### NEUROBIOLOGY OF DISEASE

- 1614  **$\alpha$ -Synuclein Promotes Neuronal Dysfunction and Death by Disrupting the Binding of Ankyrin to  $\beta$ -Spectrin**  
Gali Maor, Ronald R. Dubreuil, and Mel B. Feany
- 1627 **Peroxynitrite Contributes to Behavioral Responses, Increased Trigeminal Excitability, and Changes in Mitochondrial Function in a Preclinical Model of Migraine**  
Jacob Lackovic, Vivek Jeevakumar, Michael Burton, Theodore J. Price, and Gregory Dussor
- 1643 **Temporal Irreversibility of Large-Scale Brain Dynamics in Alzheimer's Disease**  
Josephine Cruzat, Ruben Herzog, Pavel Prado, Yonatan Sanz-Perl, Raul Gonzalez-Gomez, Sebastian Moguilner, Morten L. Kringelbach, Gustavo Deco, Enzo Tagliazucchi, and Agustín Ibañez

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