



**Cover legend:** This scanning electron micrograph shows a single oligodendrocyte initiating ensheathment of a micropillar on the BIMA (Binary Indicator of myelination using Micropillar Arrays) screening platform. The cell soma and membrane are pseudocolored green to illustrate the extensive and elaborate branching. Image by Michael Devereux and Jonah R. Chan. For more information, see the article by Mei et al. (pages 7925–7935).

## i This Week in The Journal

### Journal Club

- 7803 The Neural Causes of Congenital Amusia**  
Jian Chen and Jie Yuan
- 7805 Training Working Memory: Anatomy Matters**  
Alexander J. Simon, Sasha N. Skinner, and David A. Ziegler

### Articles

#### CELLULAR/MOLECULAR

- 7886 mGluR1 and mGluR5 Synergistically Control Cholinergic Synaptic Transmission in the Thalamic Reticular Nucleus**  
Yan-Gang Sun, Vanessa Rupprecht, Li Zhou, Rajan Dasgupta, Frederik Seibt, and Michael Beierlein
- 7911 Distinct Functions of Syntaxin-1 in Neuronal Maintenance, Synaptic Vesicle Docking, and Fusion in Mouse Neurons**  
Gülçin Vardar, Shuwen Chang, Marife Arancillo, Yuan-Ju Wu, Thorsten Trimbuch, and Christian Rosenmund
- 7925 Identification of the Kappa-Opioid Receptor as a Therapeutic Target for Oligodendrocyte Remyelination**  
Feng Mei, Sonia R. Mayoral, Hiroko Nobuta, Fei Wang, Caroline Despons, Daniel S. Lorrain, Lan Xiao, Ari J. Green, David Rowitch, Jennifer Whistler, and Jonah R. Chan

#### DEVELOPMENT/PLASTICITY/REPAIR

- 7877 Sustained Hypoxia Elicits Competing Spinal Mechanisms of Phrenic Motor Facilitation**  
Michael J. Devinney, Nicole L. Nichols, and Gordon S. Mitchell

#### SYSTEMS/CIRCUITS

- 7865 Catecholaminergic Neuromodulation Shapes Intrinsic MRI Functional Connectivity in the Human Brain**  
Ruud L. van den Brink, Thomas Pfeffer, Christopher M. Warren, Peter R. Murphy, Klodiana-Daphne Tona, Nic J. A. van der Wee, Eric Giltay, Martijn S. van Noorden, Serge A.R.B. Rombouts, Tobias H. Donner, and Sander Nieuwenhuis

7936 **Circuit Analysis of a *Drosophila* Dopamine Type 2 Receptor That Supports Anesthesia-Resistant Memory**

Sabrina Scholz-Kornehl and Martin Schwärzel

8026 **Increased Amplitude of Thalamocortical Low-Frequency Oscillations in Patients with Migraine**

Duncan J. Hodkinson, Sophie L. Wilcox, Rosanna Veggeberg, Rodrigo Nosedá, Rami Burstein, David Borsook, and Lino Becerra

#### BEHAVIORAL/COGNITIVE

7817 **A Probability Distribution over Latent Causes, in the Orbitofrontal Cortex**  
Stephanie C. Y. Chan, Yael Niv, and Kenneth A. Norman

7829 **Neural Responses to Heartbeats in the Default Network Encode the Self in Spontaneous Thoughts**

Mariana Babo-Rebelo, Craig G. Richter, and Catherine Tallon-Baudry

7841 **Transmission of Predictable Sensory Signals to the Cerebellum via Climbing Fiber Pathways Is Gated during Exploratory Behavior**

Charlotte L. Lawrenson, Thomas C. Watson, and Richard Apps

7852 **Multiple Mechanisms for Processing Reward Uncertainty in the Primate Basal Forebrain**

Noah M. Ledbetter, Charles D. Chen, and Ilya E. Monosov

7897 **Prefrontal Cortex to Accumbens Projections in Sleep Regulation of Reward**

Zheng Liu, Yao Wang, Li Cai, Yizhi Li, Bo Chen, Yan Dong, and Yanhua H. Huang

7957 **Neural Activity in the Ventral Pallidum Encodes Variation in the Incentive Value of a Reward Cue**

Allison M. Ahrens, Paul J. Meyer, Lindsay M. Ferguson, Terry E. Robinson, and J. Wayne Aldridge

7985 **Parallel Engagement of Regions Associated with Encoding and Later Retrieval Forms Durable Memories**

Isabella C. Wagner, Mariët van Buuren, Leonore Bovy, and Guillén Fernández

#### NEUROBIOLOGY OF DISEASE

7807 **Cocaine Self-Administration Produces Long-Lasting Alterations in Dopamine Transporter Responses to Cocaine**

Cody A. Siciliano, Steve C. Fordahl, and Sara R. Jones

7946 **The Alarmin HMGB1 Mediates Age-Induced Neuroinflammatory Priming**

Laura K. Fonken, Matthew G. Frank, Meagan M. Kitt, Heather M. D'Angelo, Diana M. Norden, Michael D. Weber, Ruth M. Barrientos, Jonathan P. Godbout, Linda R. Watkins, and Steven F. Maier

7971 **Reducing Endogenous  $\alpha$ -Synuclein Mitigates the Degeneration of Selective Neuronal Populations in an Alzheimer's Disease Transgenic Mouse Model**

Brian Spencer, Paula A. Desplats, Cassia R. Overk, Elvira Valera-Martin, Robert A. Rissman, Chengbiao Wu, Michael Mante, Anthony Adame, Jazmin Florio, Edward Rockenstein, and Eliezer Masliah

7996 **SNX27 and SORLA Interact to Reduce Amyloidogenic Subcellular Distribution and Processing of Amyloid Precursor Protein**

Timothy Y. Huang, Yingjun Zhao, Xiaoguang Li, Xin Wang, I-Chu Tseng, Robert Thompson, Shichun Tu, Thomas E. Willnow, Yun-wu Zhang, and Huaxi Xu

**8012 Reversal of Pathologic Lipid Accumulation in NPC1-Deficient Neurons by Drug-Promoted Release of LAMP1-Coated Lamellar Inclusions**  
Valérie Demais, Amélie Barthélémy, Martine Perraut, Nicole Ungerer, Céline Keime, Sophie Reibel, and Frank W. Pfrieger

---

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/misc/itoa.shtml>. Authors should refer to these Instructions online for recent changes that are made periodically.

Submissions should be submitted online using the following url: <http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; e-mail, [jn@sfn.org](mailto:jn@sfn.org).