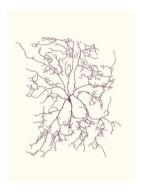


January 13, 2021 • Volume 41 Number 2 • www.jneurosci.org



Cover legend: This confocal image shows the dendritic arborization of a sensory neuron in a Drosophila larva overexpressing the ATPase ATP7, a metal transporter that regulates cytoplasmic copper levels. Overexpression of ATP7 mimics aspects of Menkes disease, reducing dendritic complexity. For more information, see the article by Hartwig et al. (pages 215–233). Cover Image: Shatabdi Bhattacharjee and Victor Faundez.

## 211 This Week in The Journal

## **Journal Club**

212 Promoting Pleasant Memories with a Specialized Serotonergic Projection to the Hippocampus

Andrea Giorgi and Giacomo Maddaloni

## **Research Articles**

#### CELLULAR/MOLECULAR

215 Golgi-Dependent Copper Homeostasis Sustains Synaptic Development and Mitochondrial Content

Cortnie Hartwig, Gretchen Macías Méndez, Shatabdi Bhattacharjee, Alysia D. Vrailas-Mortimer, Stephanie A. Zlatic, Amanda A.H. Freeman, Avanti Gokhale, Mafalda Concilli, Erica Werner, Christie Sapp Savas, Samantha Rudin-Rush, Laura Palmer, Nicole Shearing, Lindsey Margewich, Jacob McArthy, Savanah Taylor, Blaine Roberts, Vladimir Lupashin, Roman S. Polishchuk, Daniel N. Cox, Ramon A. Jorquera, and Victor Faundez

234 Dopamine Transporter Localization in Medial Forebrain Bundle Axons Indicates Its Long-Range Transport Primarily by Membrane Diffusion with a Limited Contribution of Vesicular Traffic on Retromer-Positive Compartments

Tarique R. Bagalkot, Ethan R. Block, Kristen Bucchin, Judith Joyce Balcita-Pedicino, Michael Calderon, Susan R. Sesack, and Alexander Sorkin

### DEVELOPMENT/PLASTICITY/REPAIR

251 HIFα Regulates Developmental Myelination Independent of Autocrine Wnt Signaling Sheng Zhang, Yan Wang, Jie Xu, Bokyung Kim, Wenbin Deng, and Fuzheng Guo

# SYSTEMS/CIRCUITS

- 269 Arrangement of Excitatory Synaptic Inputs on Dendrites of the Medial Superior Olive Alexander R. Callan, Martin Heß, Felix Felmy, and Christian Leibold
- 284 Task Engagement Improves Neural Discriminability in the Auditory Midbrain of the Marmoset Monkey
  Luke A. Shaheen, Sean J. Slee, and Stephen V. David
- 298 Entopeduncular Nucleus Projections to the Lateral Habenula Contribute to Cocaine Avoidance

Hao Li, Maya Eid, Dominika Pullmann, Ying S. Chao, Alen A. Thomas, and Thomas C. Jhou

#### BEHAVIORAL/COGNITIVE

### 307 Spatial Information Encoding across Multiple Neocortical Regions Depends on an Intact Hippocampus

Ingrid M. Esteves, HaoRan Chang, Adam R. Neumann, JianJun Sun, Majid H. Mohajerani, and Bruce L. McNaughton

# 320 Transcutaneous Vagus Nerve Stimulation in Humans Induces Pupil Dilation and Attenuates Alpha Oscillations

Omer Sharon, Firas Fahoum, and Yuval Nir

# 331 Prefronto-Striatal Structural Connectivity Mediates Adult Age Differences in Action Selection

Amirhossein Rasooli, Hamed Zivari Adab, Sima Chalavi, Thiago S. Monteiro, Thijs Dhollander, Dante Mantini, and Stephan P. Swinnen

# 342 Prior Cocaine Use Alters the Normal Evolution of Information Coding in Striatal Ensembles during Value-Guided Decision-Making

Lauren E. Mueller, Melissa J. Sharpe, Thomas A. Stalnaker, Andrew M. Wikenheiser, and Geoffrey Schoenbaum

# 354 Assessing the Role of Corticothalamic and Thalamo-Accumbens Projections in the Augmentation of Heroin Seeking in Chronically Food-Restricted Rats

Alexandra Chisholm, Damaris Rizzo, Émilie Fortin, Vanessa Moman, Nour Quteishat, Assunta Romano, Tanya Capolicchio, and Uri Shalev

#### NEUROBIOLOGY OF DISEASE

### 366 Regional Tau Effects on Prospective Cognitive Change in Cognitively Normal Older Adults

Xi Chen, Kaitlin E. Cassady, Jenna N. Adams, Theresa M. Harrison, Suzanne L. Baker, and William J. Jagust

### 376 Chronic Pharmacological Increase of Neuronal Activity Improves Sensory-Motor Dysfunction in Spinal Muscular Atrophy Mice

Christian M. Simon, Beatriz Blanco-Redondo, Jannik M. Buettner, John G. Pagiazitis, Emily V. Fletcher, Josiane K. Sime Longang, and George Z. Mentis

390 *Erratum:* In the article, "Representational Neural Mapping of Dexterous Grasping Before Lifting in Humans," by Michelle Marneweck and Scott T. Grafton, which appeared on pages 2708–2716 of the March 25, 2020 issue, an important detail was left out of the legend of Figure 2. The online version has been updated to include the following sentence: "All cortical regions (including those on the medial wall) are projected to the lateral surface."

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department at membership@sfn.org or 202-962-4911.

For current submission policies and manuscript preparation guidelines, authors should refer to our Information for Authors at https://www.jneurosci.org/content/information-authors.

Manuscripts should be submitted online at https://jneurosci.msubmit.net. Please contact the Central Office with any questions at jn@sfn.org or 202-962-4000.