



**Cover legend:** This image represents a temporal projection (each time point depicted with a different color) of a time-lapse live imaging recording of commissural axons crossing the midline of the developing spinal cord. After these axons have crossed the midline, they turn rostrally towards the brain in a well-organized manner. Nogo receptors play a key role in guiding these axons. For more information, see the article by Vaccaro et al. (pages 4087–4100). Cover image: Alexandre Dumoulin.

## 4053 This Week in The Journal

### Research Articles

#### CELLULAR/MOLECULAR

##### 4054 Human APOER2 Isoforms Have Differential Cleavage Events and Synaptic Properties

Kerilyn Casey Omuro, Christina M. Gallo, Lauren Scrandis, Angela Ho, and Uwe Beffert

##### 4069 Fibroblastic SMOC2 Suppresses Mechanical Nociception by Inhibiting Coupled Activation of Primary Sensory Neurons

Shuo Zhang, Bing Cai, Zhen Li, Kaikai Wang, Lan Bao, Changlin Li, and Xu Zhang

#### DEVELOPMENT/PLASTICITY/REPAIR

##### 4087 The Nogo-66 Receptors NgR1 and NgR3 Are Required for Commissural Axon Pathfinding

Giuseppe Vaccaro, Alexandre Dumoulin, Nikole R. Zuñiga, Christine E. Bandtlow, and Esther T. Stoeckli

#### SYSTEMS/CIRCUITS

##### 4101 The Retinal Basis of Light Aversion in Neonatal Mice

Franklin S. Caval-Holme, Marcos L. Aranda, Andy Q. Chen, Alexandre Tiriac, Yizhen Zhang, Benjamin Smith, Lutz Birnbaumer, Tiffany M. Schmidt, and Marla B. Feller

##### 4116 Robust Coding of Eye Position in Posterior Parietal Cortex despite Context-Dependent Tuning

Jamie R. McFadyen, Barbara Heider, Anushree N. Karkhanis, Shaun L. Cloherty, Fabian Muñoz, Ralph M. Siegel, and Adam P. Morris

##### 4131 Activity Subspaces in Medial Prefrontal Cortex Distinguish States of the World

Silvia Maggi and Mark D. Humphries

##### 4147 Common Microscale and Macroscale Principles of Connectivity in the Human Brain

Lianne H. Scholtens, Rory Pijnenburg, Siemon C. de Lange, Inge Huitinga, Martijn P. van den Heuvel, and Netherlands Brain Bank

#### BEHAVIORAL/COGNITIVE

##### 4164 A Neurodevelopmental Shift in Reward Circuitry from Mother's to Nonfamilial Voices in Adolescence

Daniel A. Abrams, Percy K. Mistry, Amanda E. Baker, Aarthi Padmanabhan, and Vinod Menon

- 4174 **Isolating the Neural Substrates of Visually Guided Attention Orienting in Humans**  
John J. McDonald, Daniel Tay, David J. Prime, and Steven A. Hillyard
- 4187 **Aberrant Phase Precession of Lateral Septal Cells in a Maternal Immune Activation Model of Schizophrenia Risk May Disrupt the Integration of Location with Reward**  
Lucinda J. Speers, Robert Schmidt, and David K. Bilkey
- 4202 **Outcome-Locked Cholinergic Signaling Suppresses Prefrontal Encoding of Stimulus Associations**  
Gaqi Tu, Adel Halawa, Xiaotian Yu, Samuel Gillman, and Kaori Takehara-Nishiuchi

#### NEUROBIOLOGY OF DISEASE

- 4215 **Chronic Cortical Inflammation, Cognitive Impairment, and Immune Reactivity Associated with Diffuse Brain Injury Are Ameliorated by Forced Turnover of Microglia**  
Chelsea E. Bray, Kristina G. Witcher, Dunni Adekunle-Adegbite, Michelle Ouvina, Mollie Witzel, Emma Hans, Zoe M. Tapp, Jonathan Packer, Ethan Goodman, Fangli Zhao, Titikorn Chunchai, Shane O'Neil, Siriporn C. Chattipakorn, John Sheridan, Olga N. Kokiko-Cochran, Candice Askwith, and Jonathan P. Godbout
- 4229 **Erratum:** The article "This Week in the Journal", appeared on page 2613 of the March 30, 2022 issue. An erratum for this article appears on page 4229.

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