



Cover legend: This image shows horizontal brain sections from a neonatal wild-type mouse (bottom left) and a *Tbr1* knockout mouse (top right), immunostained for the axon markers L1 (magenta) and neurofilament medium chain (yellow) with a nuclear counterstain (blue). Homozygous *Tbr1* mutation causes severe axon tract defects and upregulation of neurofilament. For more information, see the article by Co et al. (pages 7166–7181).
Cover image: Marissa Co.

7015 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

7016 *Drosophila* Homolog of the Human Carpenter Syndrome Linked Gene, *MEGF8*, Is Required for Synapse Development and Function

Shuting Chen, Anand Venkatesan, Yong Qi Lin, Jing Xie, Gregory Neely, Swati Banerjee, and Manzoor A. Bhat

DEVELOPMENT/PLASTICITY/REPAIR

7031 Functional Cooperation of α -Synuclein and Tau Is Essential for Proper Corticogenesis

Shengming Wang, Yu Fu, Takaki Miyata, Sakiko Matsumoto, Tomoyasu Shinoda, Kyoko Itoh, Akihiro Harada, Shinji Hirotsune, and Mingyue Jin

SYSTEMS/CIRCUITS

7047 Dynamics and Mechanisms of Contrast-Dependent Modulation of Spatial-Frequency Tuning in the Early Visual Cortex

Hiroki Tanaka and Ryohei Sawada

7060 Crossed Corticostriatal Projections in the Macaque Brain

Elena Borra, Dalila Biancheri, Marianna Rizzo, Fabio Leonardi, and Giuseppe Luppino

7077 Adult Born Dentate Granule Cell Mediated Upregulation of Feedback Inhibition in a Mouse Model of Traumatic Brain Injury

Young-Jin Kang, Sang-Hun Lee, Jeffery A. Boychuk, Corwin R. Butler, J. Anna Juras, Ryan A. Cloyd, and Bret N. Smith

BEHAVIORAL/COGNITIVE

7094 β Bursting in the Retrosplenial Cortex Is a Neurophysiological Correlate of Environmental Novelty Which Is Disrupted in a Mouse Model of Alzheimer's Disease

Callum Walsh, Thomas Ridler, Gabriella Margetts-Smith, Maria Garcia Garrido, Jonathan Witton, Andrew D. Randall, and Jonathan T. Brown

7110 Common Neural Mechanisms Control Attention and Working Memory

Ying Zhou (周颖), Clayton E. Curtis, Kartik K. Sreenivasan, and Daryl Fougine

7121 A Distributed Network for Multimodal Experiential Representation of Concepts

Jiaqing Tong, Jeffrey R. Binder, Colin Humphries, Stephen Mazurchuk, Lisa L. Conant, and Leonardo Fernandino

- 7131 **Causal Inference of Body Ownership in the Posterior Parietal Cortex**
Marie Chancel, Heather Iriye, and H. Henrik Ehrsson
- 7144 **Stimulus-Induced Changes in 1/f-like Background Activity in EEG**
Máté Gyurkovics, Grace M. Clements, Kathy A. Low, Monica Fabiani, and Gabriele Gratton

NEUROBIOLOGY OF DISEASE

- 7152 **Peroxisome Injury in Multiple Sclerosis: Protective Effects of 4-Phenylbutyrate in CNS-Associated Macrophages**
Andrej Roczkowsky, Matthew A.L. Doan, Brittyne A. Hlavay, Manmeet K. Mamik, William G. Branton, Brienne A. McKenzie, Leina B. Saito, Laura Schmitt, Gary Eitzen, Francesca Di Cara, Melinda Wuest, Frank Wuest, Richard Rachubinski, and Christopher Power
- 7166 **Shared and Distinct Functional Effects of Patient-Specific *Tbr1* Mutations on Cortical Development**
Marissa Co, Rebecca A. Barnard, Jennifer N. Jahncke, Sally Grindstaff, Lev M. Fedorov, Andrew C. Adey, Kevin M. Wright, and Brian J. O'Roak

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