



**Cover legend:** This electron microscope image shows a neuronal axon (colored in blue) with abnormally aggregated mitochondria. Expression of hMFN2(D210V) in neuronal cells induces mitochondrial aggregation not only in neuronal soma but also in axons. For more information, see the article by Ishikawa et al. (pages 1588–1604).

## 1551 This Week in The Journal

### Research Articles

#### CELLULAR/MOLECULAR

- 1552 **Latent Sex Differences in Molecular Signaling That Underlies Excitatory Synaptic Potentiation in the Hippocampus**  
Anant Jain, Guang Zhe Huang, and Catherine S. Woolley
- 1566 **Gq-Coupled Muscarinic Receptor Enhancement of KCNQ2/3 Channels and Activation of TRPC Channels in Multimodal Control of Excitability in Dentate Gyrus Granule Cells**  
Chase M. Carver and Mark S. Shapiro
- 1588 **Acquired Expression of Mutant *Mitofusin 2* Causes Progressive Neurodegeneration and Abnormal Behavior**  
Kaori Ishikawa, Satoshi Yamamoto, Satoko Hattori, Naoya Nishimura, Haruna Tani, Takayuki Mito, Hirokazu Matsumoto, Tsuyoshi Miyakawa, and Kazuto Nakada

#### DEVELOPMENT/PLASTICITY/REPAIR

- 1605 **Maturation Dynamics of the Axon Initial Segment (AIS) of Newborn Dentate Granule Cells in Young Adult C57BL/6J Mice**  
Marta Bolós, Julia Terreros-Roncal, Juan R. Perea, Noemí Pallas-Bazarra, Jesús Ávila, and María Llorens-Martín

#### SYSTEMS/CIRCUITS

- 1621 **A Distinct Visual Pathway Mediates High-Intensity Light Adaptation of the Circadian Clock in *Drosophila***  
Matthias Schlichting, Pamela Menegazzi, Michael Rosbash, and Charlotte Helfrich-Förster
- 1631 **Mouse Parabrachial Neurons Signal a Relationship between Bitter Taste and Nociceptive Stimuli**  
Jinrong Li and Christian H. Lemon
- 1649 **Nonlinear Processing of Shape Information in Rat Lateral Extrastriate Cortex**  
Giulio Matteucci, Rosilari Bellacosa Marotti, Margherita Riggi, Federica B. Rosselli, and Davide Zoccolan
- 1671 **Internal Gain Modulations, But Not Changes in Stimulus Contrast, Preserve the Neural Code**  
Sangkyun Lee, Jiyoung Park, and Stelios M. Smirnakis

#### BEHAVIORAL/COGNITIVE

- 1688 **Dissociable Forms of Uncertainty-Driven Representational Change Across the Human Brain**  
Matthew R. Nassar, Joseph T. McGuire, Harrison Ritz, and Joseph W. Kable
- 1699 **Auditory Figure-Ground Segregation Is Impaired by High Visual Load**  
Katharine Molloy, Nilli Lavie, and Maria Chait
- 1709 **The Caudal Part of Putamen Represents the Historical Object Value Information**  
Jun Kunimatsu, Kazutaka Maeda, and Okihide Hikosaka
- 1720 **Reduced Structural Connectivity Between Left Auditory Thalamus and the Motion-Sensitive Planum Temporale in Developmental Dyslexia**  
Nadja Tschentscher, Anja Ruisinger, Helen Blank, Begoña Díaz, and Katharina von Kriegstein
- 1733 **Beta and Theta Oscillations Differentially Support Free Versus Forced Control over Multiple-Target Search**  
Joram van Driel, Eduard Ort, Johannes J. Fahrenfort, and Christian N.L. Olivers
- 1744 **Compulsive Alcohol Seeking Results from a Failure to Disengage Dorsolateral Striatal Control over Behavior**  
Chiara Giuliano, David Belin, and Barry J. Everitt

#### NEUROBIOLOGY OF DISEASE

- 1755 **Stroke Accelerates and Uncouples Intrinsic and Synaptic Excitability Maturation of Mouse Hippocampal DCX<sup>+</sup> Adult-Born Granule Cells**  
Mihai Ceanga, Silke Keiner, Benedikt Grünwald, Holger Haselmann, Christiane Frahm, Sebastien Couillard-Després, Otto W. Witte, Christoph Redecker, Christian Geis, and Albrecht Kunze

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