



**Cover legend:** Coronal section of the olfactory epithelium showing the dorsal region stained against NQ01 (red), and absence of  $\alpha$ -synuclein pathology by detecting pSer129-a-syn (green) in wild type mice. For more information, see the article by Martin-Lopez et al. (pages 1051–1071).

Cover image: Eduardo Martin-Lopez.

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### Journal Club

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Anne-Sophie Sack
- 882 **The Oscillatory Nature of Movement Initiation**  
Cécilia Neige, Goldy Yadav, and Gerard Derosiere

### Research Articles

#### CELLULAR/MOLECULAR

- 885 **NCK1 Modulates Neuronal Actin Dynamics and Promotes Dendritic Spine, Synapse, and Memory Formation**  
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- 902 **Muscarinic Acetylcholine Receptors Modulate HCN Channel Properties in Vestibular Ganglion Neurons**  
Daniel Bronson and Radha Kalluri

#### DEVELOPMENT/PLASTICITY/REPAIR

- 918 **A Unique Role for Protocadherin  $\gamma$ C3 in Promoting Dendrite Arborization through an Axin1-Dependent Mechanism**  
David M. Steffen, Camille M. Hanes, Kar Men Mah, Paula Valiño Ramos, Peter J. Bosch, Dalton C. Hinz, Jason J. Radley, Robert W. Burgess, Andrew M. Garrett, and Joshua A. Weiner

#### SYSTEMS/CIRCUITS

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- 949 **Relating Pupil Diameter and Blinking to Cortical Activity and Hemodynamics across Arousal States**  
Kevin L. Turner, Kyle W. Gheres, and Patrick J. Drew
- 965 **A Novel Mechanism for T1R-Independent Taste Responses to Concentrated Sugars**  
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- 1008 Proactive Interhemispheric Disinhibition Supports Response Preparation during Selective Stopping**  
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- 1018 Ameliorating Hemianopia with Multisensory Training**  
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- 1027 Deeper Than You Think: Partisanship-Dependent Brain Responses in Early Sensory and Motor Brain Regions**  
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## NEUROBIOLOGY OF DISEASE

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- 1051  $\alpha$ -Synuclein Pathology and Reduced Neurogenesis in the Olfactory System Affect Olfaction in a Mouse Model of Parkinson's Disease**  
Eduardo Martin-Lopez, D. J. Vidyadhara, Teresa Liberia, Sarah J. Meller, Leah E. Harmon, Ryan M. Hsu, Natalie Spence, Bowen Brennan, Kimberly Han, Betül Yücel, Sreeranga S. Chandra, and Charles A. Greer

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