

# JNeurosci

THE JOURNAL OF NEUROSCIENCE

June 27, 2018 • Volume 38 Number 26 • www.jneurosci.org



**Cover legend:** This composite image shows channelrhodopsin-expressing axons of the lateral perforant path (green) targeting dendritic segments of granule cells (red) in the outer molecular layer of the mouse hippocampus. Laminar-specific activation showed that newborn cells receive strong preferential input from the lateral perforant path, despite showing similar spine density and dendritic length in the middle (light blue) and outer (light purple) molecular layer, a feature that may support their unique role in pattern separation. (pages 5843–5853).

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### Editorial

- 5837 **Recommendations for the Design and Analysis of *In Vivo* Electrophysiology Studies**  
Marina Picciotto

### Journal Club

- 5840 **A $\beta$ -Mediated Dysregulation of F-Actin Nanoarchitecture Leads to Loss of Dendritic Spines and Alzheimer's Disease-Related Cognitive Impairments**  
Hossein Sanjari Moghaddam and Mohammad Hadi Aarabi

### Research Articles

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- 5843 **Preferential Targeting of Lateral Entorhinal Inputs onto Newly Integrated Granule Cells**  
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- 5872 **Lrln2-Mutant Mice Display Suppressed Synaptic Plasticity and Inhibitory Synapse Development and Abnormal Social Communication and Startle Response**  
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- 5888 **Copine-6 Binds to SNAREs and Selectively Suppresses Spontaneous Neurotransmission**  
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- 5900 **Blocking Autophagy in Oligodendrocytes Limits Functional Recovery after Spinal Cord Injury**  
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- 5949 **Increased Microglial Activity, Impaired Adult Hippocampal Neurogenesis, and Depressive-like Behavior in Microglial VPS35-Depleted Mice**  
Joanna Ruth Appel, Shiyang Ye, Fulei Tang, Dong Sun, Hongsheng Zhang, Lin Mei, and Wen-Cheng Xiong

#### DEVELOPMENT/PLASTICITY/REPAIR

- 5854 **nox2/cybb Deficiency Affects Zebrafish Retinotectal Connectivity**  
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- 5996 **Laminin  $\beta$ 2 Chain Regulates Retinal Progenitor Cell Mitotic Spindle Orientation via Dystroglycan**  
Dmitri Serjanov, Galina Bachay, Dale D. Hunter, and William J. Brunken

#### SYSTEMS/CIRCUITS

- 6011 **h-Type Membrane Current Shapes the Local Field Potential from Populations of Pyramidal Neurons**  
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#### BEHAVIORAL/COGNITIVE

- 5913 **Cell-Type-Specific Role of  $\Delta$ FosB in Nucleus Accumbens In Modulating Intermale Aggression**  
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- 5925 **Pre-Bout Neural Activity Changes in Premotor Nucleus HVC Correlate with Successful Initiation of Learned Song Sequence**  
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- 5969 **Modality-Independent Coding of Scene Categories in Prefrontal Cortex**  
Yaelan Jung, Bart Larsen, and Dirk B. Walther

#### NEUROBIOLOGY OF DISEASE

- 5939 **Chemogenetic Activation of Prefrontal Cortex Rescues Synaptic and Behavioral Deficits in a Mouse Model of 16p11.2 Deletion Syndrome**  
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- 5982 **Local BDNF Delivery to the Injured Cervical Spinal Cord using an Engineered Hydrogel Enhances Diaphragmatic Respiratory Function**  
Biswarup Ghosh, Zhicheng Wang, Jia Nong, Mark W. Urban, Zhiling Zhang, Victoria A. Trovillion, Megan C. Wright, Yinghui Zhong, and Angelo C. Lepore

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