



Cover legend: Reconstructions of GABAergic neurons of a novel large type accumulating in the tail of the striatum (TS). They are detectable using a neurofilament marker SMI-32 (green) and parvalbumin immunohistochemistry (blue). These TSL (TS large) neurons elongate skewed dendrites toward the region where dopaminergic axons (red) are relatively sparse. Importantly, this region selectively receives inputs from the primary auditory cortex. For more information, see the article by Ogata et al. (pages 8078–8094). Cover image: Takaichi Fukuda.

8038 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

8039 Regulation of Diacylglycerol Content in Olfactory Neurons Determines Forgetting or Retrieval of Olfactory Memory in *Caenorhabditis elegans*

Mary Arai, Itsuki Kurokawa, Hoshinosuke Arakane, Tomohiro Kitazono, and Takeshi Ishihara

DEVELOPMENT/PLASTICITY/REPAIR

8054 Axon Initial Segments Are Required for Efficient Motor Neuron Axon Regeneration and Functional Recovery of Synapses

Lindsay H. Teliska, Irene Dalla Costa, Ozlem Sert, Jeffery L. Twiss, and Matthew N. Rasband

SYSTEMS/CIRCUITS

8066 μ -Opioid Receptor Activation Reduces Glutamate Release in the PreBötzing Complex in Organotypic Slice Cultures

Anders B. Jørgensen, Camilla Mai Rasmussen, and Jens C. Rekling

8078 The Tail of the Mouse Striatum Contains a Novel Large Type of GABAergic Neuron Incorporated in a Unique Disinhibitory Pathway That Relays Auditory Signals to Subcortical Nuclei

Shigeru Ogata, Yuta Miyamoto, Naoki Shigematsu, Shigeyuki Esumi, and Takaichi Fukuda

8095 Organization of Cortical and Thalamic Input to Inhibitory Neurons in Mouse Motor Cortex

Sandra U. Okoro, Roman U. Goz, Brigdet W. Njeri, Madhumita Harish, Catherine F. Ruff, Sarah E. Ross, Charles Gerfen, and Bryan M. Hooks

BEHAVIORAL/COGNITIVE

8113 Pharmacological Manipulations of Physiological Arousal and Sleep-Like Slow Waves Modulate Sustained Attention

Elaine Pinggal, Paul M. Dockree, Redmond G. O'Connell, Mark A. Bellgrove, and Thomas Andrillon

8125 Dissociation between Attention-Dependent and Spatially Specific Illusory Shape Responses within the Topographic Areas of the Posterior Parietal Cortex

Ana Arsenovic, Anja Ischebeck, and Natalia Zaretskaya

- 8136 Neural Representation of Intraoral Olfactory and Gustatory Signals by the Mediodorsal Thalamus in Alert Rats**
Kelly E. Fredericksen and Chad L. Samuelsen

NEUROBIOLOGY OF DISEASE

- 8154 Identification of a Glutamatergic Claustrum-Anterior Cingulate Cortex Circuit for Visceral Pain Processing**
Qi-Ya Xu, Hai-Long Zhang, Han Du, Yong-Chang Li, Fu-Hai Ji, Rui Li, and Guang-Yin Xu
- 8169 AQP4-A25Q Point Mutation in Mice Depolymerizes Orthogonal Arrays of Particles and Decreases Polarized Expression of AQP4 Protein in Astrocytic Endfeet at the Blood-Brain Barrier**
Dan-Dan Zhu, Guang Yang, Yue-Lin Huang, Ting Zhang, Ao-Ran Sui, Na Li, Wei-Heng Su, Hai-Lun Sun, Jing-Jing Gao, Michael Ntim, Rong-Xiao Guan, Ling-Ling Jin, Jian Yu, Zhi-Yong Huang, Tong-Hui Ma, and Shao Li
- 8184 Ventrolateral Periaqueductal Gray Astrocytes Regulate Nociceptive Sensation and Emotional Motivation in Diabetic Neuropathic Pain**
Lan Yang, Jingshan Lu, Jianpeng Guo, Jian Chen, Fangfang Xiong, Xinyao Wang, Li Chen, and Changxi Yu
- 8200 Progressively Decreased HCN1 Channels Results in Cone Morphological Defects in Diabetic Retinopathy**
Ruyi Han, Mengmeng Jin, Gezhi Xu, and Jie He

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