Research Articles

CELLULAR/MOLECULAR

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

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

m-Opioid Receptor Activation Reduces Glutamate Release in the PreBötzinger Complex in Organotypic Slice Cultures
Anders B. Jørgensen, Camilla Mai Rasmussen, and Jens C. Rekling

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

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

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

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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