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Cover legend: Section of nasal area of *Nog::lacZ* mouse embryo at E11.5. Neurons of the olfactory pit immunostained against HuC/D are blue and Noggin is orange. Noggin is not expressed in the neurogenic areas of the olfactory pit but limited to the respiratory epithelium and the nasal mesenchyme. For more information, see the article by Forni et al. (pages 19620–19634).

i This Week in The Journal

Journal Club

- 19393 **Do Short-Term Changes in White Matter Structure Indicate Learning-Induced Myelin Plasticity?**
Robert A. Hill

Brief Communications

- 19499 **Motor Skill Learning Induces Changes in White Matter Microstructure and Myelination**
Cassandra Sampaio-Baptista, Alexandre A. Khrapitchev, Sean Foxley, Theresa Schlagheck, Jan Scholz, Saad Jbabdi, Gabriele C. DeLuca, Karla L. Miller, Amy Taylor, Nagheme Thomas, Jeffrey Kleim, Nicola R. Sibson, David Bannerman, and Heidi Johansen-Berg
- 19689 **Early Onset of Ataxia in Moonwalker Mice Is Accompanied by Complete Ablation of Type II Unipolar Brush Cells and Purkinje Cell Dysfunction**
Gabriella Sekerková, Jin-Ah Kim, Maximiliano J. Nigro, Esther B. E. Becker, Jana Hartmann, Lutz Birnbaumer, Enrico Mugnaini, and Marco Martina

Articles

CELLULAR/MOLECULAR

- 19396 **Different Calcium Sources Control Somatic versus Dendritic SK Channel Activation during Action Potentials**
Scott L. Jones and Greg J. Stuart
- 19442 **Loss of Functional A-Type Potassium Channels in the Dendrites of CA1 Pyramidal Neurons from a Mouse Model of Fragile X Syndrome**
Brandy N. Routh, Daniel Johnston, and Darrin H. Brager
- 19470 **The Coffin-Lowry Syndrome-Associated Protein RSK2 Regulates Neurite Outgrowth through Phosphorylation of Phospholipase D1 (PLD1) and Synthesis of Phosphatidic Acid**
Mohamed-Raafet Ammar, Yann Humeau, André Hanauer, Bernard Nieswandt, Marie-France Bader, and Nicolas Vitale
- 19534 **Dysfunctional Astrocytic and Synaptic Regulation of Hypothalamic Glutamatergic Transmission in a Mouse Model of Early-Life Adversity: Relevance to Neurosteroids and Programming of the Stress Response**
Benjamin G. Gunn, Linda Cunningham, Michelle A. Cooper, Nicole L. Corteen, Mohsen Seifi, Jerome D. Swinny, Jeremy J. Lambert, and Delia Belelli

- 19704 **DNA Methylation and Methyl-Binding Proteins Control Differential Gene Expression in Distinct Cortical Areas of Macaque Monkey**
Katsusuke Hata, Hiroaki Mizukami, Osamu Sadakane, Akiya Watakabe, Masanari Ohtsuka, Masafumi Takaji, Masaharu Kinoshita, Tadashi Isa, Keiya Ozawa, and Tetsuo Yamamori

DEVELOPMENT/PLASTICITY/REPAIR

- 19480 **Motor Axon Regeneration and Muscle Reinnervation in Young Adult and Aged Animals**
Hyuno Kang and Jeff W. Lichtman
- 19620 **The Indirect Role of Fibroblast Growth Factor-8 in Defining Neurogenic Niches of the Olfactory/GnRH Systems**
Paolo Emanuele Forni, Kapil Bharti, Ellen M. Flannery, Tomomi Shimogori, and Susan Wray
- 19664 **Epigenetic Regulation of Sensory Axon Regeneration after Spinal Cord Injury**
Mattéa J. Finelli, Jamie K. Wong, and Hongyan Zou
- 19715 **Altered Structural and Functional Synaptic Plasticity with Motor Skill Learning in a Mouse Model of Fragile X Syndrome**
Ragunathan Padmashri, Benjamin C. Reiner, Anand Suresh, Elizabeth Spartz, and Anna Dunaevsky
- 19724 **Development of GABA Circuitry of Fast-Spiking Basket Interneurons in the Medial Prefrontal Cortex of *erbb4*-Mutant Mice**
Jian-Ming Yang (杨建明), Jing Zhang (张晶), Xiao-Juan Chen (陈晓娟), Hong-Yan Geng (耿红岩), Mao Ye (叶茂), Nicholas C. Spitzer, Jian-Hong Luo (罗建红), Shu-Min Duan (段树民), and Xiao-Ming Li (李晓明)

SYSTEMS/CIRCUITS

- 19416 **Mouse Primary Visual Cortex Is Used to Detect Both Orientation and Contrast Changes**
Lindsey L. Glickfeld, Mark H. Histed, and John H. R. Maunsell
- 19451 **Cortical Pitch Regions in Humans Respond Primarily to Resolved Harmonics and Are Located in Specific Tonotopic Regions of Anterior Auditory Cortex**
Sam Norman-Haignere, Nancy Kanwisher, and Josh H. McDermott
- 19504 **A Tweaking Principle for Executive Control: Neuronal Circuit Mechanism for Rule-Based Task Switching and Conflict Resolution**
Salva Ardid and Xiao-Jing Wang
- 19555 **Multimodal Integration of Self-Motion Cues in the Vestibular System: Active versus Passive Translations**
Jerome Carriot, Jessica X. Brooks, and Kathleen E. Cullen
- 19567 **Target-Specific Effects of Somatostatin-Expressing Interneurons on Neocortical Visual Processing**
James C. H. Cottam, Spencer L. Smith, and Michael Häusser
- 19599 **Essential Thalamic Contribution to Slow Waves of Natural Sleep**
François David, Joscha T. Schmiedt, Hannah L. Taylor, Gergely Orban, Giuseppe Di Giovanni, Victor N. Uebele, John J. Renger, Régis C. Lambert, Nathalie Leresche, and Vincenzo Crunelli

- 19635 **Cholinergic Blockade Reduces Theta-Gamma Phase Amplitude Coupling and Speed Modulation of Theta Frequency Consistent with Behavioral Effects on Encoding**
Ehren L. Newman, Shea N. Gillet, Jason R. Climer, and Michael E. Hasselmo
- 19647 **Stimulus Timing-Dependent Plasticity in Dorsal Cochlear Nucleus Is Altered in Tinnitus**
Seth D. Koehler and Susan E. Shore
- 19657 **Stress Switches Cannabinoid Type-1 (CB₁) Receptor-Dependent Plasticity from LTD to LTP in the Bed Nucleus of the Stria Terminalis**
Christelle Glangetas, Delphine Girard, Laurent Groc, Giovanni Marsicano, Francis Chaouloff, and François Georges
- 19677 **Gamma Synchrony Predicts Neuron–Neuron Correlations and Correlations with Motor Behavior in Extrastriate Visual Area MT**
Joonyeol Lee and Stephen G. Lisberger
- 19695 **Coarse-Scale Biases for Spirals and Orientation in Human Visual Cortex**
Jeremy Freeman, David J. Heeger, and Elisha P. Merriam

BEHAVIORAL/COGNITIVE

- 19406 **Diagnostic Value Underlies Asymmetric Updating of Impressions in the Morality and Ability Domains**
Peter Mende-Siedlecki, Sean G. Baron, and Alexander Todorov
- 19434 **Internal and External Influences on the Rate of Sensory Evidence Accumulation in the Human Brain**
Simon P. Kelly and Redmond G. O'Connell
- 19492 **Extinction of Remotely Acquired Fear Depends on an Inhibitory NR2B/PKA Pathway in the Retrosplenial Cortex**
Kevin A. Corcoran, Katherine Leaderbrand, and Jelena Radulovic
- 19611 **Chronometric Electrical Stimulation of Right Inferior Frontal Cortex Increases Motor Braking**
Jan R. Wessel, Christopher R. Conner, Adam R. Aron, and Nitin Tandon

NEUROBIOLOGY OF DISEASE

- 19423 **Mechanisms of Transthyretin Inhibition of β -Amyloid Aggregation *In Vitro***
Xinyi Li, Xin Zhang, Ali Reza A. Ladiwala, Deguo Du, Jay K. Yadav, Peter M. Tessier, Peter E. Wright, Jeffery W. Kelly, and Joel N. Buxbaum
- 19518 **Dendritic Arborization and Spine Dynamics Are Abnormal in the Mouse Model of *MECP2* Duplication Syndrome**
Minghui Jiang, Ryan T. Ash, Steven A. Baker, Bernhard Suter, Andrew Ferguson, Jiyoung Park, Jessica Rudy, Sergey P. Torsky, Hsiao-Tuan Chao, Huda Y. Zoghbi, and Stelios M. Smirnakis
- 19579 **Progranulin Deficiency Promotes Post-Ischemic Blood–Brain Barrier Disruption**
Katherine Jackman, Timo Kahles, Diane Lane, Lidia Garcia-Bonilla, Takato Abe, Carmen Capone, Karin Hochrainer, Henning Voss, Ping Zhou, Aihao Ding, Josef Anrather, and Costantino Iadecola
- 19590 **Defects in Synapse Structure and Function Precede Motor Neuron Degeneration in *Drosophila* Models of FUS-Related ALS**
Mohammad Shahidullah, Sylvain J. Le Marchand, Hong Fei, Jiaming Zhang, Udai Bhan Pandey, Matthew B. Dalva, Piera Pasinelli, and Irwin B. Levitan

19734 **Correction:** The article “Independent Projection Streams from Macaque Striate Cortex to the Second Visual Area and Middle Temporal Area” by Lawrence C. Sincich and Jonathan C. Horton appeared on pages 5684–5692 of the July 2, 2003 issue. A correction for that article appears on page 19734.

Correction: The article “Sulcal Depth-Position Profile Is a Genetically Mediated Neuroscientific Trait: Description and Characterization in the Central Sulcus” by D. Reese McKay, Peter Kochunov, Matthew D. Cykowski, Jack W. Kent Jr., Angela R. Laird, Jack L. Lancaster, John Blangero, David C. Glahn, and Peter T. Fox appeared on pages 15618–15625 of the September 25, 2013 issue. A correction for that article appears on page 19734.

19735 **Retraction:** The article “Epigenetic Enhancement of BDNF Signaling Rescues Synaptic Plasticity in Aging” by Yan Zeng, Miao Tan, Jun Kohyama, Marissa Sneddon, Joseph B. Watson, Yi E. Sun, and Cui-Wei Xie appeared on pages 17800–17810 of the December 7, 2011 issue. A retraction for that article appears on page 19735.

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