



Cover legend: This image illustrates current flow through all neuronal segments in a full-scale (~30,000,000 segments), biophysically detailed model of a cortical column. Each segment is colored according to the current flowing through that segment. These simulations were used to reveal that the majority of evoked ECoG signals arise from infragranular neuronal spiking. For more information, see the article by Baratham, Dougherty et al. (pages 3733–3748). Cover image: Burlen Loring (Lawrence Berkeley National Lab, Berkeley, CA).

3688 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

3689 Evolution Increases Primates Brain Complexity Extending RbFOX1 Splicing Activity to LSD1 Modulation

Chiara Forastieri, Maria Italia, Emanuela Toffolo, Elena Romito, Maria Paola Bonasoni, Valeria Ranzani, Beatrice Bodega, Francesco Rusconi, and Elena Battaglioli

DEVELOPMENT/PLASTICITY/REPAIR

3704 Longitudinal Allometry of Sulcal Morphology in Health and Schizophrenia

Joost Janssen, Clara Alloza, Covadonga M. Diaz-Caneja, Javier Santonja, Laura Pina-Camacho, Pedro M. Gordaliza, Alberto Fernández-Pena, Noemi González Lois, Elizabeth E.L. Buimer, Neeltje E.M. van Haren, Wiekpe Cahn, Eduard Vieta, Josefina Castro-Fornieles, Miquel Bernardo, Celso Arango, René S. Kahn, Hilleke E. Hulshoff Pol, and Hugo G. Schnack

3716 A Critical Role for DLK and LZK in Axonal Repair in the Mammalian Spinal Cord

Junmi M. Saikia, Carmine L. Chavez-Martinez, Noah D. Kim, Sahar Allibhoy, Hugo J. Kim, Lidiya Simonyan, Samraa Smadi, Kristen M. Tsai, Daniel Romaus-Sanjurjo, Yishi Jin, and Binhai Zheng

SYSTEMS/CIRCUITS

3733 Columnar Localization and Laminar Origin of Cortical Surface Electrical Potentials

Vyassa L. Baratham, Maximilian E. Dougherty, John Hermiz, Peter Ledochowitsch, Michel M. Maharbiz, and Kristofer E. Bouchard

3749 Tracing Modification to Cortical Circuits in Human and Nonhuman Primates from High-Resolution Tractography, Transcription, and Temporal Dimensions

Christine J. Charvet, Kwadwo Ofori, Christine Baucum, Jianli Sun, Melinda S. Modrell, Khan Hekmatyar, Brian L. Edlow, and Andre J. van der Kouwe

3768 Long-Term Inactivation of Sodium Channels as a Mechanism of Adaptation in CA1 Pyramidal Neurons

Carol M. Upchurch, Crescent L. Combe, Christopher J. Knowlton, Valery G. Rousseau, Sonia Gasparini, and Carmen C. Canavier

3783 Encoding of Environmental Cues in Central Amygdala Neurons during Foraging

Marion Ponsérre, Federica Fermani, Louise Gaitanos, and Rüdiger Klein

3797 A Variable Clock Underlies Internally Generated Hippocampal Sequences

Xinyi Deng, Shizhe Chen, Marielena Sosa, Mattias P. Karlsson, Xue-Xin Wei, and Loren M. Frank

- 3811 Cortico-Striatal Control over Adaptive Goal-Directed Responding Elicited by Cues Signaling Sucrose Reward or Punishment**
Laurie Hamel, Bilgehan Cavdaroglu, Dylan Yeates, David Nguyen, Sadia Riaz, Dylan Patterson, Nisma Khan, Nardin Kirolos, Katherine Roper, Quynh An Ha, and Rutsuko Ito
- 3823 Cross-Frequency Brain Network Dynamics Support Pitch Change Detection**
Soheila Samiee, Dominique Vuvan, Esther Florin, Philippe Albouy, Isabelle Peretz, and Sylvain Baillet
- 3836 Spectral Fingerprints of Cortical Neuromodulation**
Angela Radetz and Markus Siegel

BEHAVIORAL/COGNITIVE

- 3847 Mixed Selectivity in the Cerebellar Purkinje-Cell Response during Visuomotor Association Learning**
Naveen Sendhilnathan, Michael E. Goldberg, and Anna E. Ipata
- 3856 Consolidation of Sleep-Dependent Appetitive Memory Is Mediated by a Sweet-Sensing Circuit**
Nitin S. Chouhan and Amita Sehgal

NEUROBIOLOGY OF DISEASE

- 3868 Divergent Histopathological Networks of Frontotemporal Degeneration Proteinopathy Subtypes**
Min Chen, Daniel T. Ohm, Jeffrey S. Phillips, Corey T. McMillan, Noah Capp, Claire Peterson, Emily Xie, David A. Wolk, John Q. Trojanowski, Edward B. Lee, James Gee, Murray Grossman, and David J. Irwin

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