Cover legend: This image shows a coronal magnetic resonance image of a pregnant rhesus macaque on the 110th day of a 168 day gestational term. This view provides a sagittal image of the fetus. Overlaid is a lateral view of a surface model of the cerebral cortex, color-coded according to fractional anisotropy (FA) of cerebral cortical water diffusion measured in utero. Orange colors indicate low FA and yellow colors indicate high FA. Wang and co-workers demonstrate how temporal and regional changes in FA relate to morphological development of cells within the cerebral cortex, and in turn, how these changes relate to macroscopic folding and surface area expansion of the fetal primate brain. For more information, see the article by Wang et al. (pages 1971–1983).

This Week in The Journal

Journal Club

1965 Facing a Regular World: How Spatial Object Structure Shapes Visual Processing
Daniel Kaiser and Tristan Haselhuhn

1968 Live-Cell Imaging Reveals Tau Isoforms Imbalance Disrupts Traffic of APP Vesicles in Human Neurons
Christy Oi Ying Hung

Research Articles

CELLULAR/MOLECULAR

2032 Sexual Dimorphism in a Reciprocal Interaction of Ryanodine and IP$_3$ Receptors in the Induction of Hyperalgesic Priming
Eugen V. Khomula, Luiz F. Ferrari, Dionéia Araldi, and Jon D. Levine

2061 Mitochondria Maintain Distinct Ca$^{2+}$ Pools in Cone Photoreceptors
Michelle M. Giarmarco, Whitney M. Cleghorn, Stephanie R. Sloat, James B. Hurley, and Susan E. Brockerhoff

2125 $O$-GlcNAc Transferase Is Essential for Sensory Neuron Survival and Maintenance
Cathy Su and Thomas L. Schwarz

2216 A Novel Human CAMK2A Mutation Disrupts Dendritic Morphology and Synaptic Transmission, and Causes ASD-Related Behaviors

DEVELOPMENT/PLASTICITY/REPAIR

1971 Folding, But Not Surface Area Expansion, Is Associated with Cellular Morphological Maturation in the Fetal Cerebral Cortex
Xiaojie Wang, Colin Studholme, Peta L. Grigsby, Antonio E. Frias, Virginia C. Cuzon Carlson, and Christopher D. Kroenke

2073 Ick Ciliary Kinase Is Essential for Planar Cell Polarity Formation in Inner Ear Hair Cells and Hearing Function
Shio Okamoto, Taro Chaya, Yoshihiro Omori, Ryusuke Kuwahara, Shun Kubo, Hiroyumi Sakaguchi, and Takahisa Furukawa

2203 Cortactin Is a Regulator of Activity-Dependent Synaptic Plasticity Controlled by Wingless
Daniel Alicea, Marizabeth Perez, Carolina Maldonado, Carinhann Dominicci-Cotto, and Bruno Marie
1984 Asymmetries of Dark and Bright Negative Afterimages Are Paralleled by Subcortical ON and OFF Poststimulus Responses
Hui Li, Xu Liu, Ian M. Andolina, Xiaohong Li, Yiliang Lu, Lothar Spillmann, and Wei Wang

1997 Climbing Fibers Control Purkinje Cell Representations of Behavior
Martha L. Streng, Laurentiu S. Popa, and Timothy J. Ebner

2045 Gap Junction–Mediated Signaling from Motor Neurons Regulates Motor Generation in the Central Circuits of Larval Drosophila
Teruyuki Matsunaga, Hiroshi Kohsaka, and Akinao Nose

2086 Cholinergic Interneurons Underlie Spontaneous Dopamine Release in Nucleus Accumbens
Jordan T. Yorgason, Douglas M. Zeppenfeld, and John T. Williams

2137 Social Status–Dependent Shift in Neural Circuit Activation Affects Decision Making
Thomas H. Miller, Katie Clements, Sungwoo Ahn, Choongseok Park, Eoon Hye Ji, and Fadi A. Issa

2176 Dynamic Encoding of Acoustic Features in Neural Responses to Continuous Speech
Bahar Khalighinejad, Guilherme Cruzatto da Silva, and Nima Mesgarani

2234 Electrical Microstimulation of the Pulvinar Biases Saccade Choices and Reaction Times in a Time-Dependent Manner
Adan-Ulises Dominguez-Vargas, Lukas Schneider, Melanie Wilke, and Igor Kagan

2010 Orbitofrontal Cortex Signals Expected Outcomes with Predictive Codes When Stable Contingencies Promote the Integration of Reward History
Justin S. Riceberg and Matthew L. Shapiro

2022 Neural Differentiation of Incorrectly Predicted Memories
Ghooteae Kim, Kenneth A. Norman, and Nicholas B. Turk-Browne

2097 A Gustatory Neural Circuit of Caenorhabditis elegans Generates Memory-Dependent Behaviors in Na+ Chemotaxis
Lifang Wang, Hirofumi Sato, Yohsuke Satoh, Masahiro Tomioka, Hirofumi Kunitomo, and Yuichi Iino

2149 A Deletion Variant of the α2b-Adrenoceptor Modulates the Stress-Induced Shift from “Cognitive” to “Habit” Memory
Lisa Wirz, Jan Wacker, Andrea Felten, Martin Reuter, and Lars Schwabe

2112 Phosphodiesterase-10A Inverse Changes in Striatopallidal and Striatoentopeduncular Pathways of a Transgenic Mouse Model of DYT1 Dystonia
Vincenza D’Angelo, Valentina Castelli, Mauro Giorgi, Silvia Cardarelli, Ilaria Saverioni, Francesca Palumbo, Paola Bonsi, Antonio Pisani, Carmela Giampa`, Roberto Sorge, Stefano Biagioni, Francesca R. Fusco, and Giuseppe Sancesario

2161 Zika Virus Targeting in the Developing Brain
Anthony N. van den Pol, Guochao Mao, Yang Yang, Sara Ornaghi, and John N. Davis
An ALS-Associated Mutant SOD1 Rapidly Suppresses KCNT1 (Slack) Na⁺-Activated K⁺ Channels in Aplysia Neurons
Yalan Zhang, Weiming Ni, Arthur L. Horwich, and Leonard K. Kaczmarek

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