



Cover legend: This image shows vesicular nucleotide transporter (green) and Fluorogold (magenta) immunoreactive cells in the A1 region of the hindbrain of a female rat treated with Fluorogold, a retrograde tracer, into the anteroventral periventricular nucleus (AVPV) where kisspeptin neurons responsible for ovulation are located. For more information, see the article by Inoue, Hazim et al. (pages 2140–2152). Cover image: Naoko Inoue and Safiullah Hazim

2036 This Week in The Journal

Viewpoints

- 2037 **A Role for Second Messengers in Axodendritic Neuronal Polarity**
Pamela J. Urrutia and Christian González-Billault

Research Articles

CELLULAR/MOLECULAR

- 2053 **Coupling between the Stereocilia of Rat Sensory Inner-Hair-Cell Hair Bundles Is Weak, Shaping Their Sensitivity to Stimulation**
Alexandra L. Scharr, Dáibhid Ó Maoiléidigh, and Anthony J. Ricci

DEVELOPMENT/PLASTICITY/REPAIR

- 2075 **Macrophages Promote Repair of Inner Hair Cell Ribbon Synapses following Noise-Induced Cochlear Synaptopathy**
Vijayprakash Manickam, Dinesh Y. Gawande, Andrew R. Stothert, Anna C. Clayman, Lyudmila Bataalkina, Mark E. Warchol, Kevin K. Ohlemiller, and Tejbeer Kaur

SYSTEMS/CIRCUITS

- 2090 **Sensory and Choice Responses in MT Distinct from Motion Encoding**
Aaron J. Levi, Yuan Zhao, Il Memming Park, and Alexander C. Huk
- 2104 **The Basolateral Amygdala Sends a Mixed (GABAergic and Glutamatergic) Projection to the Mediodorsal Thalamic Nucleus**
Nowrin Ahmed and Denis Paré
- 2116 **A Short Route for Reach Planning between Human V6A and the Motor Cortex**
Rossella Breveglieri, Sara Borgomaneri, Stefano Diomedei, Alessia Tessari, Claudio Galletti, and Patrizia Fattori
- 2126 **Dorsolateral Striatum is a Bottleneck for Responding to Task-Relevant Stimuli in a Learned Whisker Detection Task in Mice**
Behzad Zareian, Angelina Lam, and Edward Zagha
- 2140 **Hindbrain Adenosine 5-Triphosphate (ATP)-Purinergic Signaling Triggers LH Surge and Ovulation via Activation of AVPV Kisspeptin Neurons in Rats**
Naoko Inoue, Safiullah Hazim, Hitomi Tsuchida, Yuri Dohi, Ren Ishigaki, Ai Takahashi, Yuki Otsuka, Koki Yamada, Yoshihisa Uenoyama, and Hiroko Tsukamura

BEHAVIORAL/COGNITIVE

- 2153 **Enhanced Reactivation of Remapping Place Cells during Aversive Learning**
Jake Ormond, Simon A. Serka, and Joshua P. Johansen
- 2168 **Total Sleep Deprivation Increases Brain Age Prediction Reversibly in Multisite Samples of Young Healthy Adults**
Congying Chu, Sebastian C. Holst, Eva-Maria Elmenhorst, Anna L. Foerges, Changhong Li, Denise Lange, Eva Hennecke, Diego M. Baur, Simone Beer, Felix Hoffstaedter, Gitte M. Knudsen, Daniel Aeschbach, Andreas Bauer, Hans-Peter Landolt, and David Elmenhorst
- 2178 **Cortical Grey Matter Mediates Increases in Model-Based Control and Learning from Positive Feedback from Adolescence to Adulthood**
Vanessa Scholz, Maria Waltmann, Nadine Herzog, Andrea Reiter, Annette Horstmann, and Lorenz Deserno
- 2190 **Statistical Learning of Distractor Suppression Downregulates Prestimulus Neural Excitability in Early Visual Cortex**
Oscar Ferrante, Alexander Zhigalov, Clayton Hickey, and Ole Jensen

NEUROBIOLOGY OF DISEASE

- 2199 **Retinal Dysfunction in a Mouse Model of HCN1 Genetic Epilepsy**
Da Zhao, Paulo Pinares-Garcia, Chaseley E. McKenzie, Lauren E. Bleakley, Ian C. Forster, Vickie H.Y. Wong, Christine T.O. Nguyen, Ingrid E. Scheffer, Christopher A. Reid, and Bang V. Bui
- 2210 **Rapid and Chronic Ethanol Tolerance Are Composed of Distinct Memory-Like States in *Drosophila***
Caleb Larnerd, Pratik Adhikari, Ashley Valdez, Alexander Del Toro, and Fred W. Wolf

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