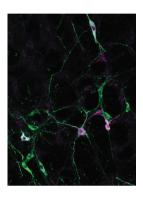


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Cover legend: This image shows vesicular nucleotide transporter (green) and Fluorogold (magenta) immunoreactive cells in the A1 region of the hindbrain of a female rat treated with Fluorogold, a retrograde tracer, into the anteroventral periventricular 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 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

Coupling between the Stereocilia of Rat Sensory Inner-Hair-Cell Hair Bundles Is 2053 Weak, Shaping Their Sensitivity to Stimulation

Alexandra L. Scharr, Dáibhid Ó Maoiléidigh, and Anthony J. Ricci

#### DEVELOPMENT/PLASTICITY/REPAIR

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 Batalkina, Mark E. Warchol, Kevin K. Ohlemiller, and Teibeer Kaur

## SYSTEMS/CIRCUITS

- 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
- A Short Route for Reach Planning between Human V6A and the Motor Cortex Rossella Breveglieri, Sara Borgomaneri, Stefano Diomedi, 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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