



**Cover legend:** This image shows a section of hippocampal region CA1 from a 4-month-old Thy1-G-CaMP7-T2A-DsRed2 transgenic mouse immunostained with anti-phosphorylated  $\alpha$ -synuclein. The image is pseudocolored so that the red and cyan channels indicate DsRed2 expression and phosphorylated  $\alpha$ -synuclein, respectively. See Takamura, Mizuta, et al. (pages 5315–5329) for details.  
Cover image: Risa Takamura.

## 5134 This Week in The Journal

### Journal Club

- 5135 **Unexpected Events Activate a Frontal-Basal-Ganglia Inhibitory Network: What Is the Role of the Pre-Supplementary Motor Area?**  
Darcy A. Diesburg and Joshua R. Tatz

### Research Articles

#### CELLULAR/MOLECULAR

- 5138 **Cereblon Regulates the Proteotoxicity of Tau by Tuning the Chaperone Activity of DNAJA1**  
Uroos Akber, Heeji Jo, Seungje Jeon, Seung-Joo Yang, Sunhwa Bong, Sungsu Lim, Yun Kyung Kim, Zee-Yong Park, and Chul-Seung Park

#### DEVELOPMENT/PLASTICITY/REPAIR

- 5157 **Amyloid-Beta Mediates Homeostatic Synaptic Plasticity**  
Christos Galanis, Meike Fellenz, Denise Becker, Charlotte Bold, Stefan F. Lichtenthaler, Ulrike C. Müller, Thomas Deller, and Andreas Vlachos

#### SYSTEMS/CIRCUITS

- 5173 **Weekend Light Shifts Evoke Persistent *Drosophila* Circadian Neural Network Desynchrony**  
Ceazar Nave, Logan Roberts, Patrick Hwu, Jerson D. Estrella, Thanh C. Vo, Thanh H. Nguyen, Tony Thai Bui, Daniel J. Rindner, Nicholas Pervolarakis, Paul J. Shaw, Tanya L. Leise, and Todd C. Holmes
- 5190 **Estrogen Receptor  $\beta$  Contributes to Both Hypertension and Hypothalamic Plasticity in a Mouse Model of Peri-Menopause**  
Teresa A. Milner, Natalina H. Contoreggi, Fangmin Yu, Megan A. Johnson, Gang Wang, Clara Woods, Sanoara Mazid, Tracey A. Van Kempen, Elizabeth M. Waters, Bruce S. McEwen, Kenneth S. Korach, and Michael J. Glass
- 5206 **Fever During Localized Inflammation in Mice Is Elicited by a Humoral Pathway and Depends on Brain Endothelial Interleukin-1 and Interleukin-6 Signaling and Central EP<sub>3</sub> Receptors**  
Anna Eskilsson, Kiseko Shionoya, David Engblom, and Anders Blomqvist
- 5219 **GPR84 Is Essential for the Taste of Medium Chain Saturated Fatty Acids**  
Yan Liu, Han Xu, Naima Dahir, Ashley Calder, Fangjun Lin, and Timothy A. Gilbertson

- 5229 **Temporal Relations between Cortical Network Oscillations and Breathing Frequency during REM Sleep**  
Adriano B.L. Tort, Maximilian Hammer, Jiaojiao Zhang, Jurij Brankač, and Andreas Draguhn

#### BEHAVIORAL/COGNITIVE

- 5243 **The Ventral and Dorsal Default Mode Networks Are Dissociably Modulated by the Vividness and Valence of Imagined Events**  
Sangil Lee, Trishala Parthasarathi, and Joseph W. Kable
- 5251 **Neural Responses to Heartbeats Detect Residual Signs of Consciousness during Resting State in Postcomatose Patients**  
Diego Candia-Rivera, Jitka Annen, Olivia Gosseries, Charlotte Martial, Aurore Thibaut, Steven Laureys, and Catherine Tallon-Baudry
- 5263 **Hand-Selective Visual Regions Represent How to Grasp 3D Tools: Brain Decoding during Real Actions**  
Ethan Knights, Courtney Mansfield, Diana Tonin, Janak Saada, Fraser W. Smith, and Stéphanie Rossit
- 5274 **Associative Learning Requires Neurofibromin to Modulate GABAergic Inputs to Drosophila Mushroom Bodies**  
Eirini-Maria Georganta, Anastasios Moressis, and Efthimios M.C. Skoulakis

#### NEUROBIOLOGY OF DISEASE

- 5287 **The Modulatory Effect of Motor Cortex Astrocytes on Diabetic Neuropathic Pain**  
Jingshan Lu, Lan Yang, Ying Xu, Lijing Ai, Jian Chen, Fangfang Xiong, Lihuan Hu, Huoshu Chen, Jiyuan Liu, Xiongbin Yan, Huihui Huang, Li Chen, and Changxi Yu
- 5303 **Estradiol Regulation of the Prelimbic Cortex and the Reinstatement of Cocaine Seeking in Female Rats**  
Elizabeth M. Doncheck, Eden M. Anderson, Chaz D. Konrath, Gage T. Liddiard, Margot C. DeBaker, Luke A. Urbanik, Matthew C. Hearing, and John R. Mantsch
- 5315 **Modality-Specific Impairment of Hippocampal CA1 Neurons of Alzheimer's Disease Model Mice**  
Risa Takamura, Kotaro Mizuta, Yukiko Sekine, Tanvir Islam, Takashi Saito, Masaaki Sato, Masamichi Ohkura, Junichi Nakai, Toshio Ohshima, Takaomi C. Saido, and Yasunori Hayashi

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