

# JNeurosci

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**Cover legend:** This homage to Banksy shows two gonadotropin-releasing hormone (GnRH) neurons passing through the now-infamous shredder. GnRH neurons are the final common pathway regulating fertility, and a change in their output is important for ovulation. In this issue, dynamic clamp was used to mix and match synaptic and intrinsic changes in these neurons to test whether one or both contributed to increased preovulatory output. For more information, see the article by Adams et al. (pages 2091–2101). Illustration by Mariana Roo, 2019.

## 1965 This Week in The Journal

### Journal Club

- 1966 **Updating Internal Cognitive Models during Sleep**  
Andrea Ballesio and Nicola Cellini

### Research Articles

#### CELLULAR/MOLECULAR

- 1969 **Two Distinct Sets of Ca<sup>2+</sup> and K<sup>+</sup> Channels Are Activated at Different Membrane Potentials by the Climbing Fiber Synaptic Potential in Purkinje Neuron Dendrites**  
Karima Ait Ouares, Luiza Filipis, Alexandra Tzilivaki, Panayiota Poirazi, and Marco Canepari
- 1982 **Activation of Dopamine Receptor 2 Prompts Transcriptomic and Metabolic Plasticity in Glioblastoma**  
Seamus P. Caragher, Jack M. Shireman, Mei Huang, Jason Miska, Fatemeh Atashi, Shivani Baisiwala, Cheol Hong Park, Miranda R. Saathoff, Louisa Warnke, Ting Xiao, Maciej S. Lesniak, C. David James, Herbert Meltzer, Andrew K. Tryba, and Atique U. Ahmed

#### DEVELOPMENT/PLASTICITY/REPAIR

- 1994 **Cenpj Regulates Cilia Disassembly and Neurogenesis in the Developing Mouse Cortex**  
Wenyu Ding, Qian Wu, Le Sun, Na Clara Pan, and Xiaoqun Wang
- 2011 **Knockdown of Fidgetin Improves Regeneration of Injured Axons by a Microtubule-Based Mechanism**  
Andrew J. Matamoros, Veronica J. Tom, Di Wu, Yash Rao, David J. Sharp, and Peter W. Baas
- 2025 **Complement Targets Newborn Retinal Ganglion Cells for Phagocytic Elimination by Microglia**  
Sarah R. Anderson, Jianmin Zhang, Michael R. Steele, Cesar O. Romero, Amanda G. Kautzman, Dorothy P. Schafer, and Monica L. Vetter

#### SYSTEMS/CIRCUITS

- 2041 **Ventral Pallidum Is the Primary Target for Accumbens D1 Projections Driving Cocaine Seeking**  
Thibaut R. Pardo-Garcia, Constanza Garcia-Keller, Tiffany Penaloza, Christopher T. Richie, James Pickel, Bruce T. Hope, Brandon K. Harvey, Peter W. Kalivas, and Jasper A. Heinsbroek
- 2052 **Superficial Layers Suppress the Deep Layers to Fine-tune Cortical Coding**  
Scott R. Pluta, Greg I. Telian, Alexander Naka, and Hillel Adesnik

- 2065 **Plasticity in the Link between Pain-Transmitting and Pain-Modulating Systems in Acute and Persistent Inflammation**  
QiLiang Chen and Mary M. Heinricher
- 2080 **Prefrontal Corticotropin-Releasing Factor (CRF) Neurons Act Locally to Modulate Frontostriatal Cognition and Circuit Function**  
Sofiya Hupalo, Andrea J. Martin, Rebecca K. Green, David M. Devilbiss, and Craig W. Berridge
- 2091 **Changes in Both Neuron Intrinsic Properties and Neurotransmission Are Needed to Drive the Increase in GnRH Neuron Firing Rate during Estradiol-Positive Feedback**  
Caroline Adams, R. Anthony DeFazio, Catherine A. Christian, Lorin S. Milesco, Santiago Schnell, and Suzanne M. Moenter

#### BEHAVIORAL/COGNITIVE

- 2102 **Structural Thalamofrontal Hypoconnectivity Is Related to Oculomotor Corollary Discharge Dysfunction in Schizophrenia**  
Beier Yao, Sebastiaan F.W. Neggers, Martin Rolfs, Lara Rösler, Ilse A. Thompson, Helene J. Hopman, Livon Ghermezi, René S. Kahn, and Katharine N. Thakkar
- 2114 **Neurons in FEF Keep Track of Items That Have Been Previously Fixated in Free Viewing Visual Search**  
Koorosh Mirpour, Zeinab Bolandnazar, and James W. Bisley

#### NEUROBIOLOGY OF DISEASE

- 2125 **MicroRNA-1224 Splicing CircularRNA-Filip11 in an Ago2-Dependent Manner Regulates Chronic Inflammatory Pain via Targeting Ubr5**  
Zhiqiang Pan, Guo-Fang Li, Meng-Lan Sun, Ling Xie, Di Liu, Qi Zhang, Xiao-Xiao Yang, Sunhui Xia, Xiaodan Liu, Huimin Zhou, Zhou-Ya Xue, Ming Zhang, Ling-Yun Hao, Li-Jiao Zhu, and Jun-Li Cao
- 2144 **Long-Term, Targeted Delivery of GDNF from Encapsulated Cells Is Neuroprotective and Reduces Seizures in the Pilocarpine Model of Epilepsy**  
Giovanna Paolone, Chiara Falcicchia, Francesca Lovisari, Merab Kokaia, William J. Bell, Tracie Fradet, Mario Barbieri, Lars U. Wahlberg, Dwaine F. Emerich, and Michele Simonato
- 2157 **Erratum:** The article “Natural Firing Patterns Imply Low Sensitivity of Synaptic Plasticity to Spike Timing Compared with Firing Rate,” by Michael Graupner, Pascal Wallisch, and Srđjan Ostojic, appeared on pages 11238–11258 of the November 2, 2016 issue. An erratum for this article appears on page 2157.
- Erratum:** The article “Sleep and Wakefulness Are Controlled by Ventral Medial Midbrain/Pons GABAergic Neurons in Mice,” by Yohko Takata, Yo Oishi, Xu-Zhao Zhou, Emi Hasegawa, Koji Takahashi, Yoan Cherasse, Takeshi Sakurai and Michael Lazarus, appeared on pages 10080–10092 of the November 21, 2018 issue. An erratum for this article appears on page 2157.

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