



Cover legend: This image shows an embryonic day 12.5 mouse embryo lacking the Plexin-A4 receptor.

These mice develop exuberant cutaneous sensory axonal projections, as revealed by anti-Neurofilament staining. For more information, see the article by Danelon et al. (pages 5413–5430).

5343 This Week in The Journal

Journal Club

- 5344 Adaptive Immune Cells Link Microbial Metabolites to Stroke Recovery
Kathleen Miller-Rhodes

Research Articles

CELLULAR/MOLECULAR

- 5347 A Role of Low-Density Lipoprotein Receptor-Related Protein 4 (LRP4) in Astrocytic A β Clearance
Hongsheng Zhang, Wenbing Chen, Zhibing Tan, Lei Zhang, Zhaoqi Dong, Wanpeng Cui, Kai Zhao, Hongsheng Wang, Hongyang Jing, Rangjuan Cao, Chae Kim, Jiri G. Safar, Wen-Cheng Xiong, and Lin Mei
- 5362 RLN3/RXFP3 Signaling in the PVN Inhibits Magnocellular Neurons via M-like Current Activation and Contributes to Binge Eating Behavior
Alan Kania, Agata Szlagi, Patryk Sambak, Anna Gugula, Ewa Blasiak, Maria Vittoria Micioni Di Bonaventura, Mohammad Akhter Hossain, Carlo Cifani, Grzegorz Hess, Andrew L. Gundlach, and Anna Blasiak
- 5376 Kirrel3-Mediated Synapse Formation Is Attenuated by Disease-Associated Missense Variants
Matthew R. Taylor, E. Anne Martin, Brooke Sinnen, Rajdeep Trilokekar, Emmanuelle Ranza, Stylianos E. Antonarakis, and Megan E. Williams
- 5389 VAMP4 Maintains a Ca $^{2+}$ -Sensitive Pool of Spontaneously Recycling Synaptic Vesicles
Pei-Yi Lin, Natali L. Chanaday, Patricia M. Horvath, Denise M.O. Ramirez, Lisa M. Monteggia, and Ege T. Kavalali

DEVELOPMENT/PLASTICITY/REPAIR

- 5402 Semaphorin-Mediated Corticospinal Axon Elimination Depends on the Activity-Induced Bax/Bak-Caspase Pathway
Zirong Gu, Natasha Koppel, John Kalamboglas, Gabriella Alexandrou, Jie Li, Corey Craig, David J. Simon, Marc Tessier-Lavigne, Mark L. Baccei, John H. Martin, and Yutaka Yoshida
- 5413 Modular and Distinct Plexin-A4/FARP2/Rac1 Signaling Controls Dendrite Morphogenesis
Victor Danelon, Ron Goldner, Edward Martinez, Irena Gokhman, Kimberly Wang, Avraham Yaron, and Tracy S. Tran
- 5431 Early Visual Motion Experience Improves Retinal Encoding of Motion Directions
Li Zhang, Qiwen Wu, and Yifeng Zhang

SYSTEMS/CIRCUITS

- 5443 **Functional Localization of an Attenuating Filter within Cortex for a Selective Detection Task in Mice**

Krithiga Aruljothi, Krista Marrero, Zhaoran Zhang, Behzad Zareian,
and Edward Zagha

BEHAVIORAL/COGNITIVE

- 5455 **Physical Salience and Value-Driven Salience Operate through Different Neural Mechanisms to Enhance Attentional Selection Physical Salience versus Value-Driven Salience**

Matthew D. Bachman, Lingling Wang, Marissa L. Gamble, and Marty G. Woldorff

- 5465 **Predicting Stereopsis in Macular Degeneration**

Preeti Verghese and Saeideh Ghahghaei

- 5471 **Apparent Motion Induces Activity Suppression in Early Visual Cortex and Impairs Visual Detection**

Lu Shen, Biao Han, and Floris P. de Lange

NEUROBIOLOGY OF DISEASE

- 5480 **Enduring Changes in Neuronal Function upon Systemic Inflammation Are NLRP3 Inflammasome Dependent**

Marianna M.S. Beyer, Niklas Lonnemann, Anita Remus, Eicke Latz,
Michael T. Heneka, and Martin Korte

- 5495 **Disruption of Critical Period Plasticity in a Mouse Model of Neurofibromatosis Type 1**

Mariska van Lier, M. Hadi Saiepour, Koen Kole, Juliette E. Cheyne, Nawal Zabouri,
Thomas Blok, Yi Qin, Emma Ruimschotel, J. Alexander Heimel,
Christian Lohmann, and Christiaan N. Levelt

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