



**Cover legend:** This image shows a neuroprogenitor culture used to study the effect of the phagocytic microglial secretome. Nuclei are shown in white (DAPI), progenitors in green (nestin), astrocytes in red (GFAP) and neuroblasts in magenta (doublecortin). Image credits: Irune Diaz-Aparicio. For more information, see the article by Diaz-Aparicio et al. (pages 1453–1482).

## 1369 This Week in The Journal

### Journal Club

- 1370 **Microglia and Reactive Oxygen Species Are Required for Behavioral Susceptibility to Chronic Social Defeat Stress**  
Christopher A. Guevara, Pamela Del Valle, and Cynthia R. Mercedes

### Research Articles

#### CELLULAR/MOLECULAR

- 1373 **Distinct P2Y Receptors Mediate Extension and Retraction of Microglial Processes in Epileptic and Peritumoral Human Tissue**  
Giampaolo Miliore, Mélanie Morin-Brureau, Farah Chali, Caroline Le Duigou, Etienne Savary, Gilles Huberfeld, Nathalie Rouach, Johan Pallud, Laurent Capelle, Vincent Navarro, Bertrand Mathon, Stéphane Clemenceau, and Richard Miles
- 1389 **Actin-Binding Protein Cortactin Promotes Pathogenesis of Experimental Autoimmune Encephalomyelitis by Supporting Leukocyte Infiltration into the Central Nervous System**  
Maryna Samus, Yu-Tung Li, Lydia Sorokin, Klemens Rottner, and Dietmar Vestweber
- 1405 **CREB Family Transcription Factors Are Major Mediators of BDNF Transcriptional Autoregulation in Cortical Neurons**  
Eli-Eelika Esvald, Jürgen Tuvikene, Alex Sirp, Sudarshan Patil, Clive R. Bramham, and Tönis Timmusk
- 1427 **Environmental Light Is Required for Maintenance of Long-Term Memory in *Drosophila***  
Show Inami, Shoma Sato, Shu Kondo, Hiromu Tanimoto, Toshihiro Kitamoto, and Takaomi Sakai

#### DEVELOPMENT/PLASTICITY/REPAIR

- 1440 **The Temporal Neurogenesis Patterning of Spinal p3–V3 Interneurons into Divergent Subpopulation Assemblies**  
Dylan Deska-Gauthier, Joanna Borowska-Fielding, Christopher T. Jones, and Ying Zhang
- 1453 **Microglia Actively Remodel Adult Hippocampal Neurogenesis through the Phagocytosis Secretome**  
Irune Diaz-Aparicio, Iñaki Paris, Virginia Sierra-Torre, Ainhoa Plaza-Zabala, Noelia Rodríguez-Iglesias, Mar Márquez-Ropero, Sol Beccari, Paloma Huguet, Oihane Abiega, Elena Alberdi, Carlos Matute, Irantzu Bernales, Angela Schulz, Lilla Otrokocsi, Beata Sperlagh, Kaisa E. Happonen, Greg Lemke, Mirjana Maletic-Savatic, Jorge Valero, and Amanda Sierra

- 1483 **Blocking the Thrombin Receptor Promotes Repair of Demyelinated Lesions in the Adult Brain**  
Hyesook Yoon, Chan-Il Choi, Erin M. Triplet, Monica R. Langley, Laurel S. Kleppe, Ha Neui Kim, Whitney L. Simon, and Isobel A. Scarisbrick
- 1501 **Simultaneous Requirements for *Hes1* in Retinal Neurogenesis and Optic Cup–Stalk Boundary Maintenance**  
Bernadett Bosze, Myung-Soon Moon, Ryoichiro Kageyama, and Nadean L. Brown

#### SYSTEMS/CIRCUITS

- 1514 **Maternal Experience-Dependent Cortical Plasticity in Mice Is Circuit- and Stimulus-Specific and Requires MECP2**  
Billy Y.B. Lau, Keerthi Krishnan, Z. Josh Huang, and Stephen D. Shea
- 1527 **Blockage of NMDA- and GABA(A) Receptors Improves Working Memory Selectivity of Primate Prefrontal Neurons**  
Paul Rodermund, Stephanie Westendorff, and Andreas Nieder

#### BEHAVIORAL/COGNITIVE

- 1538 **Threat Prediction from Schemas as a Source of Bias in Pain Perception**  
Manyoel Lim, Christopher O'Grady, Douglas Cane, Amita Goyal, Mary Lynch, Steven Beyea, and Javeria Ali Hashmi
- 1549 **Mating Behavioral Function of Preoptic Galanin Neurons Is Shared between Fish with Alternative Male Reproductive Tactics and Tetrapods**  
Joel A. Tripp, Isabella Salas-Allende, Andrea Makowski, and Andrew H. Bass
- 1560 **Divisively Normalized Integration of Multisensory Error Information Develops Motor Memories Specific to Vision and Proprioception**  
Takuji Hayashi, Yutaro Kato, and Daichi Nozaki
- 1571 **The Cumulative Effect of Transient Synchrony States on Motor Performance in Parkinson's Disease**  
Gerd Tinkhauser, Flavie Torrecillos, Alek Pogosyan, Abteen Mostofi, Manuel Bange, Petra Fischer, Huiling Tan, Harutomo Hasegawa, Martin Glaser, Muthuraman Muthuraman, Sergiu Groppa, Keyoumars Ashkan, Erlick A. Pereira, and Peter Brown

#### NEUROBIOLOGY OF DISEASE

- 1581 **Neuronal Protein Tyrosine Phosphatase 1B Hastens Amyloid  $\beta$ -Associated Alzheimer's Disease in Mice**  
Konrad M. Ricke, Shelly A. Cruz, Zhaohong Qin, Kaveh Farrokhi, Fariba Sharmin, Li Zhang, Michael A. Zasloff, Alexandre F.R. Stewart, and Hsiao-Huei Chen

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