



Cover legend: This image shows a section of cortex from a *5XFAD* (Alzheimer's disease model) mouse in which *Tsc1*, an endogenous negative regulator of mTOR, was deleted from microglia. Loss of *Tsc1* resulted in mTOR activation, caused microglia (green) to assume unique morphologies with enlarged cell bodies and shortened processes/branches, increased microglial expression of F4/80 (blue), and reduced the size of amyloid- β plaques (red). For more information, see the article by Shi et al. (pages 5294–5313). Cover image: Qian Shi.

5293 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

- 5294 **Microglial mTOR Activation Upregulates Trem2 and Enhances β -Amyloid Plaque Clearance in the 5XFAD Alzheimer's Disease Model**
Qian Shi, Cheng Chang, Afaf Saliba, and Manzoor A. Bhat

DEVELOPMENT/PLASTICITY/REPAIR

- 5314 **Neuronal Activities in the Rostral Ventromedial Medulla Associated with Experimental Occlusal Interference-Induced Orofacial Hyperalgesia**
Si-Yi Mo (莫思怡), Xiao-Xiang Xu (徐啸翔), Shan-Shan Bai (白珊珊), Yun Liu (刘云), Kai-Yuan Fu (傅开元), Barry J. Sessle, Ye Cao (曹烨), and Qiu-Fei Xie (谢秋菲)

SYSTEMS/CIRCUITS

- 5330 **Role of Sleep in Formation of Relational Associative Memory**
Timothy Tadros and Maxim Bazhenov
- 5346 **Hippocampal *Egr1*-Dependent Neuronal Ensembles Negatively Regulate Motor Learning**
Verónica Brito, Enrica Montalban, Anna Sancho-Balsells, Anika Pupak, Francesca Flotta, Mercè Masana, Silvia Ginés, Jordi Alberch, Claire Martin, Jean-Antoine Girault, and Albert Giralt
- 5361 **Selective Inhibitory Circuit Dysfunction after Chronic Frontal Lobe Contusion**
Amber L. Nolan, Vikaas S. Sohal, and Susanna Rosi
- 5373 **GABAergic CaMKII α + Amygdala Output Attenuates Pain and Modulates Emotional-Motivational Behavior via Parabrachial Inhibition**
Roni Hogri, Hannah Luise Teuchmann, Bernhard Heinke, Raphael Holzinger, Lidia Trofimova, and Jürgen Sandkühler
- 5389 **NMDA Receptors in the Lateral Preoptic Hypothalamus Are Essential for Sustaining NREM and REM Sleep**
Giulia Miracca, Berta Anuncibay-Soto, Kyoko Tossell, Raquel Yustos, Alexei L. Vyssotski, Nicholas P. Franks, and William Wisden

BEHAVIORAL/COGNITIVE

- 5410 **Model Sharing in the Human Medial Temporal Lobe**
Leonie Glitz, Keno Juechems, Christopher Summerfield, and Neil Garrett

- 5427 **Pupil-Linked Arousal Response Reveals Aberrant Attention Regulation among Children with Autism Spectrum Disorder**
Sijia Zhao, Yajie Liu, and Kunlin Wei
- 5438 **A Spatiotemporal Map of Reading Aloud**
Oscar Woolnough, Cristian Donos, Aidan Curtis, Patrick S. Rollo,
Zachary J. Roccaforte, Stanislas Dehaene, Simon Fischer-Baum, and Nitin Tandon
- 5451 **Sensory Evidence Accumulation Using Optic Flow in a Naturalistic Navigation Task**
Panos Adefantis, Kaushik Lakshminarasimhan, Eric Avila, Jean-Paul Noel,
Xaq Pitkow, and Dora E. Angelaki

NEUROBIOLOGY OF DISEASE

- 5463 **Macrophage Migration Inhibitory Factor (MIF) Makes Complex Contributions to Pain-Related Hyperactivity of Nociceptors after Spinal Cord Injury**
Alexis Bavencoffe, Emily A. Spence, Michael Y. Zhu, Anibal Garza-Carbajal,
Kerry E. Chu, Ona E. Bloom, Carmen W. Dessauer, and Edgar T. Walters

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