



Cover legend: This image shows the perineurial glia that ensheath the nervous system in *Drosophila*.

Perlecan tagged with GFP (green) marks the extracellular matrix that tightly associates with the perineurial glia (labeled with a red, RFP-tagged membrane marker). The perineurial glia in turn ensheath the entire peripheral nerve including the peripheral axons (labeled in blue) at the core of each nerve. The transmembrane protein Basigin interacts with integrins at focal adhesions to regulate the interaction of integrins with the extracellular matrix, and loss of Basigin leads to compression of the peripheral nerve. For more information, see the article by Hunter et al. (pages 3360–3373).

3319 This Week in The Journal

Research Articles

CELLULAR/MOLECULAR

3320 The VGF-derived Peptide TLQP21 Impairs Purinergic Control of Chemotaxis and Phagocytosis in Mouse Microglia

Nirmeen Elmadany, Felipe de Almeida Sassi, Stefan Wendt, Francesca Loggiacco, Josien Visser, Verena Haage, Daniel Perez Hernandez, Philipp Mertins, Dolores Hambarzumyan, Susanne Wolf, Helmut Kettenmann, and Marcus Semtner

3332 Deletion of Voltage-Gated Calcium Channels in Astrocytes during Demyelination Reduces Brain Inflammation and Promotes Myelin Regeneration in Mice

Norma N. Zamora, Veronica T. Cheli, Diara A. Santiago González, Rensheng Wan, and Pablo M. Paez

3348 Nitric Oxide Signaling Strengthens Inhibitory Synapses of Cerebellar Molecular Layer Interneurons through a GABARAP-Dependent Mechanism

Erik A. Larson, Michael V. Accardi, Ying Wang, Martina D'Antoni, Benyamin Karimi, Tabrez J. Siddiqui, and Derek Bowie

DEVELOPMENT/PLASTICITY/REPAIR

3360 Basigin Associates with Integrin in Order to Regulate Perineurial Glia and *Drosophila* Nervous System Morphology

Amelia C. Hunter, Lindsay M. Petley-Ragan, Mriga Das, and Vanessa J. Auld

3374 Emotional Stress Induces Structural Plasticity in Bergmann Glial Cells via an AC5–CPEB3–GluA1 Pathway

Christian Luis Bender, Xingxing Sun, Muhammad Farooq, Qian Yang, Caroline Davison, Matthieu Maroteaux, Yi-shuiian Huang, Yoshihiro Ishikawa, and Siqiong June Liu

3385 Treatment with Mesenchymal-Derived Extracellular Vesicles Reduces Injury-Related Pathology in Pyramidal Neurons of Monkey Perilesional Ventral Premotor Cortex

Maria Medalla, Wayne Chang, Samantha M. Calderazzo, Veronica Go, Alexandra Tsolias, Joseph W. Goodliffe, Dhruva Pathak, Diego De Alba, Monica Pessina, Douglas L. Rosene, Benjamin Buller, and Tara L. Moore

SYSTEMS/CIRCUITS

3408 Neural Circuit Dynamics for Sensory Detection

Sruti Mallik, Srinath Nizampatnam, Anirban Nandi, Debajit Saha, Baranidharan Raman, and ShiNung Ching

- 3424 **An Amygdalo-Parabrachial Pathway Regulates Pain Perception and Chronic Pain**
Charles Raver, Olivia Uddin, Yadong Ji, Ying Li, Nathan Cramer, Carleigh Jenne,
Marisela Morales, Radi Masri, and Asaf Keller

BEHAVIORAL/COGNITIVE

- 3443 **Alpha Activity Reflects the Magnitude of an Individual Bias in Human Perception**
Laetitia Grabot and Christoph Kayser
- 3455 **Pattern Separation Underpins Expectation-Modulated Memory**
Darya Frank, Marcelo A. Montemurro, and Daniela Montaldi
- 3465 **β 4-Nicotinic Receptors Are Critically Involved in Reward-Related Behaviors and Self-Regulation of Nicotine Reinforcement**
Marianne Husson, Lauriane Harrington, Léa Tochon, Yoon Cho,
Inés Ibañez-Tallon, Uwe Maskos, and Vincent David
- 3478 **The Neural Origin of Nociceptive-Induced Gamma-Band Oscillations**
Lupeng Yue, G.D. Iannetti, and Li Hu

NEUROBIOLOGY OF DISEASE

- 3491 **Selective Disruption of Inhibitory Synapses Leading to Neuronal Hyperexcitability at an Early Stage of Tau Pathogenesis in a Mouse Model**
Masafumi Shimojo, Hiroyuki Takuwa, Yuhei Takado, Masaki Tokunaga,
Satoshi Tsukamoto, Keiichiro Minatohara, Maiko Ono, Chie Seki, Jun Maeda,
Takuya Urushihata, Takeharu Minamihisamatsu, Ichio Aoki, Kazunori Kawamura,
Ming-Rong Zhang, Tetsuya Suhara, Naruhiko Sahara, and Makoto Higuchi

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