



Cover legend: This image shows cranial nerve ganglia, including Nodose (pink), petrosal (blue), geniculate and vestibular (green), and trigeminal (yellow), in the developing chicken embryo. For more information, see the article by Markworth et al. (pages 5842–5860).

5835 This Week in The Journal

Journal Club

5836 **The Respiratory Modulation of Memory**
Ludovic Molle and Charles-Étienne Benoit

5839 **Perception and Cognition in Absolute Pitch: Distinct yet Inseparable**
Simon Leipold, Marielle Greber, and Stefan Elmer

Research Articles

CELLULAR/MOLECULAR

5842 **Sensory Axon Growth Requires Spatiotemporal Integration of CaSR and TrkB Signaling**
Ronja Markworth, Yuri Adolfs, Vivian Dambeck, Lars M. Steinbeck, Muriel Lizé, R. Jeroen Pasterkamp, Mathias Bähr, Camin Dean, and Katja Burk

DEVELOPMENT/PLASTICITY/REPAIR

5861 **N-Cadherin Orchestrates Self-Organization of Neurons within a Columnar Unit in the *Drosophila* Medulla**
Olena Trush, Chuyan Liu, Xujun Han, Yasuhiro Nakai, Rie Takayama, Hideki Murakawa, Jose A. Carrillo, Hiroki Takechi, Satoko Hakeda-Suzuki, Takashi Suzuki, and Makoto Sato

SYSTEMS/CIRCUITS

5881 **Whisker Vibrations and the Activity of Trigeminal Primary Afferents in Response to Airflow**
Yan S.W. Yu, Nicholas E. Bush, and Mitra J.Z. Hartmann

5897 **Disinhibition of the Nucleus Accumbens Leads to Macro-Scale Hyperactivity Consisting of Micro-Scale Behavioral Segments Encoded by Striatal Activity**
Dorin Yael, Orel Tahary, Boris Gurovich, Katya Belevsky, and Izhar Bar-Gad

BEHAVIORAL/COGNITIVE

5910 **Cognitive and White-Matter Compartment Models Reveal Selective Relations between Corticospinal Tract Microstructure and Simple Reaction Time**
Esin Karahan, Alison G. Costigan, Kim S. Graham, Andrew D. Lawrence, and Jiaxiang Zhang

5922 **Mnemonic Introspection in Macaques Is Dependent on Superior Dorsolateral Prefrontal Cortex But Not Orbitofrontal Cortex**
Sze Chai Kwok (郭思齊), Yudian Cai (蔡禹甸), and Mark J. Buckley

- 5935 **Metformin Promotes Anxiolytic and Antidepressant-Like Responses in Insulin-Resistant Mice by Decreasing Circulating Branched-Chain Amino Acids**
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- 5949 **Diacylglycerol Lipase-Alpha Regulates Hippocampal-Dependent Learning and Memory Processes in Mice**
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- 5966 **The Large-Scale Organization of Gestures and Words in the Middle Temporal Gyrus**
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- 5975 **Neural Variability Is Quenched by Attention**
Ayelet Arazi, Yaffa Yeshurun, and Ilan Dinstein

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- 5986 **Neuromodulatory Action of Picomolar Extracellular A β 42 Oligomers on Presynaptic and Postsynaptic Mechanisms Underlying Synaptic Function and Memory**
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- 6001 **CSD-Induced Arterial Dilatation and Plasma Protein Extravasation Are Unaffected by Fremanezumab: Implications for CGRP's Role in Migraine with Aura**
Aaron J. Schain, Agustin Melo-Carrillo, Jennifer Stratton, Andrew M. Strassman, and Rami Burstein
- 6012 **Growth Factor Signaling Regulates Mechanical Nociception in Flies and Vertebrates**
Roger Lopez-Bellido, Stephanie Puig, Patrick J. Huang, Chang-Ru Tsai, Heather N. Turner, Michael J. Galko, and Howard B. Gutstein

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