



Cover legend: This montage illustrates two brown ghost knifefish (*Apteronotus leptorhynchus*) communicating by means of electric signals. The spectrogram in the middle highlights a sequence of so called "chirps" that these neotropical fish use to synchronize spawning. Recordings of courtship, spawning, and aggression behaviors in natural habitats in Panamá revealed unexpected electrosensory stimuli that have been neglected so far in neurophysiological studies. For more information, see the article by Henninger and colleagues (page 5456–5465).

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Viewpoints

- 5441 Specialized Subpopulations of Deep-Layer Pyramidal Neurons in the Neocortex: Bridging Cellular Properties to Functional Consequences**
Arielle Baker, Brian Kalmbach, Mieko Morishima, Juhyun Kim, Ashley Juavinett, Nuo Li, and Nikolai Dembrow

Research Articles

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- 5478 miR126-5p Downregulation Facilitates Axon Degeneration and NMJ Disruption via a Non-Cell-Autonomous Mechanism in ALS**
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- 5495 The Frequency Response of Outer Hair Cell Voltage-Dependent Motility Is Limited by Kinetics of Prestin**
Joseph Santos-Sacchi and Winston Tan
- 5523 Suppression of AMPA Receptor Exocytosis Contributes to Hippocampal LTD**
Shumpei Fujii, Hiromitsu Tanaka, and Tomoo Hirano
- 5606 Neurotrophin Responsiveness of Sympathetic Neurons Is Regulated by Rapid Mobilization of the p75 Receptor to the Cell Surface through TrkA Activation of Arf6**
F. Edward Hickman, Emily M. Stanley, and Bruce D. Carter

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- 5551 A Critical Neurodevelopmental Role for L-Type Voltage-Gated Calcium Channels in Neurite Extension and Radial Migration**
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SYSTEMS/CIRCUITS

- 5456 Statistics of Natural Communication Signals Observed in the Wild Identify Important Yet Neglected Stimulus Regimes in Weakly Electric Fish**
Jörg Henninger, Rüdiger Krahe, Frank Kirschbaum, Jan Grewe, and Jan Benda
- 5466 Neural Signatures of the Processing of Temporal Patterns in Sound**
Björn Herrmann and Ingrid S. Johnsrude

- 5507 **Identification of a Rhythmic Firing Pattern in the Enteric Nervous System That Generates Rhythmic Electrical Activity in Smooth Muscle**
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- 5620 **Subthalamic Nucleus Neurons Differentially Encode Early and Late Aspects of Speech Production**
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- 5632 **Expectations Do Not Alter Early Sensory Processing during Perceptual Decision-Making**
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- 5584 **Prostaglandin Transporter OATP2A1/SLCO2A1 Is Essential for Body Temperature Regulation during Fever**
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- 5596 **Polyamine Modulation of Anticonvulsant Drug Response: A Potential Mechanism Contributing to Pharmacoresistance in Chronic Epilepsy**
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