

November 18, 2015 • Volume 35 Number 46 • www.jneurosci.org



Cover legend: Composite image of a salamander (Eurycea guttolineata) capturing a cricket with high-speed tongue projection. The cricket's velocity is such that, were the salamander to project at the delayed neural image formed on the retina, it would miss the cricket by a full body length. Salamanders aim their tongues by using linear extrapolation to estimate future prey position, thereby compensating for internal delays from both visual and motor processing. For more information, see the article by Borghuis and Leonardo (pages 15430 – 15441).

Photo credits: Igor Siwanowicz, Anthony Leonardo, Rebecca Larson. i This Week in The Journal

Journal Club

15227 Sex, Impulsivity, and Anxiety: Interplay between Ventral Striatum and Amygdala Reactivity in Sexual Behaviors Mateusz Gola, Makoto Miyakoshi, and Guillaume Sescousse

Brief Communications

Amperometric Monitoring of Sensory-Evoked Dopamine Release in Awake Larval Zebrafish
 Chun-feng Shang, Xiao-quan Li, Chen Yin, Bing Liu, Yu-fan Wang, Zhuan Zhou, and Jiu-lin Du

15391 Head-Directional Tuning and Theta Modulation of Anatomically Identified Neurons in the Presubiculum

John J. Tukker, Qiusong Tang, Andrea Burgalossi, and Michael Brecht

Articles

CELLULAR/MOLECULAR

15276 Interneuron Transcriptional Dysregulation Causes Frequency-Dependent Alterations in the Balance of Inhibition and Excitation in Hippocampus
 Aundrea F. Bartley, Elizabeth K. Lucas, Lillian J. Brady, Qin Li, John J. Hablitz, Rita M. Cowell, and Lynn E. Dobrunz

15339 Astroglial Connexin 43 Hemichannels Modulate Olfactory Bulb Slow Oscillations Lisa Roux, Antoine Madar, Marie Masako Lacroix, Chenju Yi, Karim Benchenane, and Christian Giaume

15396 S6 Kinase Reflects and Regulates Ethanol-Induced Sedation
Summer F. Acevedo, Raniero L. Peru y Colón de Portugal, Dante A. Gonzalez,
Aylin R. Rodan, and Adrian Rothenfluh

15453 Functional and Physical Interaction of Diacylglycerol Kinase ζ with Protein Kinase $C\alpha$ Is Required for Cerebellar Long-Term Depression Dongwon Lee, Yukio Yamamoto, Eunjoon Kim, and Keiko Tanaka-Yamamoto

DEVELOPMENT/PLASTICITY/REPAIR

15326 Competition between the Brain and Testes under Selenium-Compromised Conditions: Insight into Sex Differences in Selenium Metabolism and Risk of Neurodevelopmental Disease

Matthew W. Pitts, Penny M. Kremer, Ann C. Hashimoto, Daniel J. Torres, China N. Byrns, Christopher S. Williams, and Marla J. Berry

15379 Reliable Genetic Labeling of Adult-Born Dentate Granule Cells Using Ascl1^{CreERT2} and Glast^{CreERT2} Murine Lines

Sung M. Yang, Diego D. Alvarez, and Alejandro F. Schinder

15403 Comprehensive Corticospinal Labeling with mu-crystallin Transgene Reveals Axon Regeneration after Spinal Cord Trauma in $ngr1^{-/-}$ Mice Kathren L. Fink, Stephen M. Strittmatter, and William B.J. Cafferty

SYSTEMS/CIRCUITS

15263 Layer-Specific fMRI Responses to Excitatory and Inhibitory Neuronal Activities in the Olfactory Bulb

Alexander John Poplawsky, Mitsuhiro Fukuda, Matthew Murphy, and Seong-Gi Kim

15419 Role of the Suprachiasmatic and Arcuate Nuclei in Diurnal Temperature Regulation in the Rat

Mara Alaide Guzmán-Ruiz, Arlen Ramirez-Corona, Natali Nadia Guerrero-Vargas, Elizabeth Sabath, Oscar Daniel Ramirez-Plascencia, Rebecca Fuentes-Romero, Luis Abel León-Mercado, MariCarmen Basualdo Sigales, Carolina Escobar, and Ruud Marinus Buijs

15430 The Role of Motion Extrapolation in Amphibian Prey Capture Bart G. Borghuis and Anthony Leonardo

BEHAVIORAL/COGNITIVE

15230 Automatic and Controlled Semantic Retrieval: TMS Reveals Distinct Contributions of Posterior Middle Temporal Gyrus and Angular Gyrus

James Davey, Piers L. Cornelissen, Hannah E. Thompson, Saurabh Sonkusare, Glyn Hallam, Jonathan Smallwood, and Elizabeth Jefferies

15254 Default Mode Dynamics for Global Functional Integration

Deniz Vatansever, David K. Menon, Anne E. Manktelow, Barbara J. Sahakian, and Emmanuel A. Stamatakis

15307 Mindfulness Meditation-Based Pain Relief Employs Different Neural Mechanisms Than Placebo and Sham Mindfulness Meditation-Induced Analgesia

Fadel Zeidan, Nichole M. Emerson, Suzan R. Farris, Jenna N. Ray, Youngkyoo Jung, John G. McHaffie, and Robert C. Coghill

15353 Structural Organization of the Corpus Callosum Predicts Attentional Shifts after Continuous Theta Burst Stimulation

Magdalena Chechlacz, Glyn W. Humphreys, Stamatios N. Sotiropoulos, Christopher Kennard, and Dario Cazzoli

15369 Modulation of Saccade Vigor during Value-Based Decision Making

Thomas R. Reppert, Karolina M. Lempert, Paul W. Glimcher, and Reza Shadmehr

15442 There and Back Again: Hippocampus and Retrosplenial Cortex Track Homing Distance during Human Path Integration

Elizabeth R. Chrastil, Katherine R. Sherrill, Michael E. Hasselmo, and Chantal E. Stern

15466 Hand Shape Representations in the Human Posterior Parietal Cortex

Christian Klaes, Spencer Kellis, Tyson Aflalo, Brian Lee, Kelsie Pejsa, Kathleen Shanfield, Stephanie Hayes-Jackson, Mindy Aisen, Christi Heck, Charles Liu, and Richard A. Andersen

NEUROBIOLOGY OF DISEASE

15240 Downregulation of Spermine Augments Dendritic Persistent Sodium Currents and Synaptic Integration after Status Epilepticus

Michel Royeck, Tony Kelly, Thoralf Opitz, David-Marian Otte, Andreas Rennhack, Anne Woitecki, Julika Pitsch, Albert Becker, Susanne Schoch, Ulrich Benjamin Kaupp, Yoel Yaari, Andreas Zimmer, and Heinz Beck

15295 Functional Deficiencies in Fragile X Neurons Derived from Human Embryonic Stem Cells

Michael Telias, Liron Kuznitsov-Yanovsky, Menahem Segal, and Dalit Ben-Yosef

15477 *Correction:* The article "Memory and Space: Towards an Understanding of the Cognitive Map", by Daniela Schiller, Howard Eichenbaum, Elizabeth A. Buffalo, Lila Davachi, David J. Foster, Stefan Leutgeb, and Charan Ranganath, appeared on pages 13904–13911 of the October 14, 2015 issue. A correction for this article appears on page 15477.

Correction: The article "The Cost of Accumulating Evidence in Perceptual Decision Making", by Jan Drugowitsch, Rubén Moreno-Bote, Anne K. Churchland, Michael N. Shadlen, and Alexandre Pouget, appeared on pages 3612–3628 of the March 14, 2012 issue. A correction for this article appears on page 15477.

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at http://www.jneurosci.org/misc/itoa.shtml. Authors should refer to these Instructions online for recent changes that are made periodically.

Brief Communications Instructions for Authors are available via Internet (http://www.jneurosci.org/misc/ifa_bc.shtml).

Submissions should be submitted online using the following url: http://jneurosci.msubmit.net. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; fax, 202-962-4945; e-mail, jn@sfn.org.