

JNeurosci

THE JOURNAL OF NEUROSCIENCE

October 31, 2018 • Volume 38 Number 44 • www.jneurosci.org



Cover legend: This image shows the spatial distribution of F-actin in a growth cone, as revealed using structured illumination microscopy (SIM), one type of superresolution microscopy. Colors indicate the height from the substrate. For more information, see the Symposium article by Igarashi et al. (pages 9459–9467).

Progressions

- 9311 **The First Annual Meeting of the Society for Neuroscience, 1971: Reflections Approaching the 50th Anniversary of the Society's Formation**
R. Douglas Fields

Viewpoints

- 9318 **Linking Nanoscale Dynamics of AMPA Receptor Organization to Plasticity of Excitatory Synapses and Learning**
Daniel Choquet

Symposium and Mini-Symposium

- 9330 **Whole-Brain Analysis of Cells and Circuits by Tissue Clearing and Light-Sheet Microscopy**
Tomoyuki Mano, Alexandre Albanese, Hans-Ulrich Dodt, Ali Erturk, Viviana Gradinaru, Jennifer B. Treweek, Atsushi Miyawaki, Kwanghun Chung, and Hiroki R. Ueda
- 9338 **The Elegance of Sonic Hedgehog: Emerging Novel Functions for a Classic Morphogen**
A. Denise R. Garcia, Young-Goo Han, Jason Triplett, William T. Farmer, Rebecca A. Ihrle, and Corey C. Harwell
- 9346 **Advances in Enteric Neurobiology: The "Brain" in the Gut in Health and Disease**
Subhash Kulkarni, Julia Ganz, James Bayrer, Laren Becker, Milena Bogunovic, and Meenakshi Rao
- 9355 **Unveiling the Extracellular Space of the Brain: From Super-resolved Microstructure to *In Vivo* Function**
Sabina Hrabětová, Laurent Cognet, Dmitri A. Rusakov, and U. Valentin Nägerl
- 9364 **The Endolysosomal System and Proteostasis: From Development to Degeneration**
Bettina Winckler, Victor Faundez, Sandra Maday, Qian Cai, Cláudia Guimas Almeida, and Huaye Zhang
- 9375 **New Frontiers in Parkinson's Disease: From Genetics to the Clinic**
Lamya S. Shihabuddin, Patrik Brundin, J. Timothy Greenamyre, Diane Stephenson, and S. Pablo Sardi
- 9383 **Algorithms for Olfactory Search across Species**
Keeley L. Baker, Michael Dickinson, Teresa M. Findley, David H. Gire, Matthieu Louis, Marie P. Suver, Justus V. Verhagen, Katherine I. Nagel, and Matthew C. Smear
- 9390 **Latent Factors and Dynamics in Motor Cortex and Their Application to Brain–Machine Interfaces**
Chethan Pandarinath, K. Cora Ames, Abigail A. Russo, Ali Farshchian, Lee E. Miller, Eva L. Dyer, and Jonathan C. Kao

- 9402 More than Just a “Motor”: Recent Surprises from the Frontal Cortex**
Christian L. Ebbesen, Michele N. Insanally, Charles D. Kopec,
Masayoshi Murakami, Akiko Saiki, and Jeffrey C. Erlich
- 9414 Defining Dysbiosis in Disorders of Movement and Motivation**
Christopher T. Fields, Timothy R. Sampson, Annadora J. Bruce-Keller,
Drew D. Kiraly, Elaine Y. Hsiao, and Geert J. de Vries
- 9423 Sex Differences in Risk and Resilience: Stress Effects on the Neural Substrates of Emotion and Motivation**
Cara L. Wellman, Debra A. Bangasser, Justin L. Bollinger, Laurence Coutellier,
Marian L. Logrip, Kelly M. Moench, and Kimberly R. Urban
- 9433 Neurocognitive Development of Motivated Behavior: Dynamic Changes across Childhood and Adolescence**
Dylan G. Gee, Kevin G. Bath, Carolyn M. Johnson, Heidi C. Meyer,
Vishnu P. Murty, Wouter van den Bos, and Catherine A. Hartley
- 9446 Specific Basal Forebrain–Cortical Cholinergic Circuits Coordinate Cognitive Operations**
Laszlo Záborszky, Peter Gombkoto, Peter Varsanyi, Gina Poe, Lorna W. Role,
Mala Ananth, Prithviraj Rajebhosale, David Talmage, Michael E. Hasselmo,
Holger Dannenberg, Victor H. Minces, and Andrea A. Chiba
- 9459 New observations in neuroscience using superresolution microscopy**
Michihiro Igarashi, Motohiro Nozumi, Ling-Gang Wu, Francesca Cella Zancchi,
István Katona, László Barna, Pingyong Xu, Mingshu Zhang, Fudong Xue, and
Edward Boyden
- 9468 Dialogues: The Science and Power of Storytelling**
Wendy A. Suzuki, Mónica I. Feliú-Mójer, Uri Hasson, Rachel Yehuda,
and Jean Mary Zarate

Research Articles

CELLULAR/MOLECULAR

- 9600 Neogenin in Amygdala for Neuronal Activity and Information Processing**
Xiang-Dong Sun, Wen-Bing Chen, Dong Sun, Jie Huang, Yuan-Quan Li,
Jin-Xiu Pan, Ya-Nan Wang, Kai Zhao, Zhao-Qi Dong, Hong-Sheng Wang,
Lei Xiong, Aiguo Xuan, Shen-Ting Zhao, Anilkumar Pillai, Wen-Cheng Xiong,
and Lin Mei

DEVELOPMENT/PLASTICITY/REPAIR

- 9505 Molecular and Genetic Evidence for the PDGFR α -Independent Population of Oligodendrocyte Progenitor Cells in the Developing Mouse Brain**
Kang Zheng, Chunyang Wang, Junlin Yang, Hao Huang, Xiaofeng Zhao,
Zunyi Zhang, and Mengsheng Qiu
- 9539 Sox14 Is Required for a Specific Subset of Cerebello–Olivary Projections**
Hong-Ting Prekop, Anna Kroiss, Victoria Rook, Laskaro Zagoraiou,
Thomas M. Jessell, Cathy Fernandes, Alessio Delogu, and Richard J.T. Wingate

SYSTEMS/CIRCUITS

- 9563 Emergence of Binocular Disparity Selectivity through Hebbian Learning**
Tushar Chauhan, Timothée Masquelier, Alexandre Montlibert,
and Benoit R. Cottureau

BEHAVIORAL/COGNITIVE

- 9471 Attractor-like Dynamics in Belief Updating in Schizophrenia**
Rick A. Adams, Gary Napier, Jonathan P. Roiser, Christoph Mathys,
and James Gilleen
- 9486 Visuomotor Correlates of Conflict Expectation in the Context of Motor Decisions**
Gerard Derosiere, Pierre-Alexandre Klein, Sylvie Nozaradan, Alexandre Zénon,
André Mouraux, and Julie Duque
- 9514 CREST in the Nucleus Accumbens Core Regulates Cocaine Conditioned Place Preference, Cocaine-Seeking Behavior, and Synaptic Plasticity**
Yasaman Alaghband, Enikő Kramár, Janine L. Kwapis, Earnest S. Kim,
Thekla J. Hemstedt, Alberto J. López, André O. White, Amni Al-Kachak,
Osasumwen V. Aimiuwu, Kasuni K. Bodinayake, Nicole C. Oparaugo,
Joseph Han, K. Matthew Lattal, and Marcelo A. Wood
- 9527 The Time Course of Target Template Activation Processes during Preparation for Visual Search**
Anna Grubert and Martin Eimer
- 9551 On the Role of Cortex-Basal Ganglia Interactions for Category Learning: A Neurocomputational Approach**
Francesc Villagrasa, Javier Baladron, Julien Vitay, Henning Schroll,
Evan G. Antzoulatos, Earl K. Miller, and Fred H. Hamker

NEUROBIOLOGY OF DISEASE

- 9579 Neural Deletion of Glucose Transporter Isoform 3 Creates Distinct Postnatal and Adult Neurobehavioral Phenotypes**
Bo-Chul Shin, Carlos Cepeda, Ana María Estrada-Sánchez, Michael S. Levine,
Laya Hodaie, Yun Dai, Jai Jung, Amit Ganguly, Peter Clark,
and Sherin U. Devaskar

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/content/information-authors>. Authors should refer to these Instructions online for recent changes that are made periodically.

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; e-mail, jn@sfn.org.