

Neuron

Best of 2016–2017

Review

Neuroscience-Inspired Artificial Intelligence

Demis Hassabis, Dharshan Kumaran, Christopher Summerfield, and Matthew Botvinick

Perspective

Cracking the Neural Code for Sensory Perception by Combining Statistics, Intervention, and Behavior

Stefano Panzeri, Christopher D. Harvey, Eugenio Peter E. Latham, and Tommaso Fellin

NeuroResources

Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics

Gunchul Shin, Adrian M. Gomez, Ream Al-Hassan Jeong, Jeonghyun Kim, Zhaoqian Xie, Anthony Min Lee, Sang Youn Han, Chul Jong Yoo, Jong Seung Hee Lee, Jonas Kurniawan, Jacob Turek Guo, Jangyeol Yoon, Sung-Il Park, Sang Yun B. Nam, Marie C. Walicki, Vijay K. Samineni, Aarav Kunhyuk Lee, Seung Yun Heo, Jordan G. McCann, Liang Wang, Xue Feng, Tae-il Kim, Jong H. Yuhang Li, Yonggang Huang, Robert W. Gereau Sook Ha, Michael R. Bruchas, and John A. Roberts

High-Throughput Mapping of Single-Neuron Projections by Sequencing of Barcoded RNA

Justus M. Kebschull, Pedro Garcia da Silva, Alan D. Peikon, Dinu F. Albeanu, and Anthony M. Reiner

Human Astrocyte Maturation Captured in 3D Cerebral Cortical Spheroids Derived from Pluripotent Stem Cells

Steven A. Sloan, Spyros Darmanis, Nina Huber Khan, Fikri Birey, Christine Caneda, Richard F. Heberich, R. Quake, Ben A. Barres, and Sergiu P. Pașca

Articles

Mutant Huntingtin Disrupts the Nuclear Pore Complex

Jonathan C. Grima, J. Gavin Daigle, Nicolas C. Cunningham, Ke Zhang, Joseph Ochaba, J. Geater, Eva Morozko, Jennifer Stocksdale, Jacqueline T. Pham, Ishrat Ahmed, Qi Peng, Olga Pletnikova, Juan C. Troncoso, Wenzhe H. Snyder, Laura P.W. Ranum, Leslie M. Thoreson, E. Lloyd, Christopher A. Ross, and Jeffrey D. Gitlin

De Novo Coding Variants Are Strongly Associated with Tourette Disorder

A. Jeremy Willsey, Thomas V. Fernandez, Douglas A. King, Andrea Dietrich, Jinchuan Xing, Stephen J. Sanders, Jeffrey D. Mandell, Alden Y. Huang, Petra Richter, Smith, Shan Dong, Kaitlin E. Samocha, Tourneux Collaborative Genetics (TIC Genetics), Tourette Syndrome Association International Consortium for Genetic Studies