Article of the Month

By elsc_admin
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Article of the Month

Article of the Month, July 2017 (Burak's lab)
An efficient coding theory for a dynamic trajectory predicts non-uniform allocation of entorhinal grid cells to modules
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Article of the Month, 06/2017 - Minke's lab
Authors: Voolstra et al. (Baruch Minke's Lab)
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Article of the Month, 06/2017 - Burak's lab
Slow diffusive dynamics in a chaotic balanced neural network Authors: Shaham & Burak Published in PLoS Computational Biology, May 2017  Summary:
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Article of the Month, July 2017 (Mezer's lab)
Evaluating g-ratio weighted changes in the corpus callosum as a function of age and sex
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Ectopic expression of mouse melanopsin in Drosophila photoreceptors reveals fast response kinetics and persistent dark excitation

Stimulus-specific adaptation in a recurrent network model of primary auditory cortex

Neural mechanisms of rhythm-based temporal prediction: Delta phase-locking reflects temporal predictability but not rhythmic entrainment

Unique membrane properties and enhanced signal processing in human neocortical neurons

Dyslexics? faster decay of implicit memory for sounds and words is manifested in their shorter neural adaptation

Shaping Neural Circuits by High Order Synaptic Interactions - Neta Ravid Tenenbaum and Yoram Burak - PLoS Computational Biology, 2016

Distinct Spatiotemporal Response Properties of Excitatory Versus Inhibitory Neurons in the Mouse Auditory Cortex Ido Maor, Amos Shalev, and Adi Mizrahi
Article of the Month April 2016
The researchers mapped the cortical projections from various sensory, motor, and executive cortices to the claustrum of the mouse

Article of the Month May-June 2016
Mallet et al. (2016) show that ??arkypallidal?? neurons provide a Stop signal, suppressing the development of Go-related striatal activity

Article of the Month June-July 2016
In the present publication, Aviv Mezer and Shai Berman, together with researchers from Stanford University and the University of Washington, test the ability to quantify PD and separate it from the instrumental bias.

Article of the Month July 2016
Multisensory processes are fundamental in perception, cognition, learning, and behavior. How do stimuli of different sensory modalities are integrated?

Article of the Month August 2016
This Article of the month: Evaluating Quantitative Proton-Density-Mapping Methods is the work of Aviv Mezer, Ariel Rokem, Shai Berman, Trevor Hastie, and Brian A. Wandell.

Article of the Month September 2016
This Article of the Month "KV7/M channels as targets for lipopolysaccharide-induced inflammatory neuronal hyperexcitability" is the work of Arik Tzour, Hodaya Leibovich, Omer Barkai, Yoav Biala1, Shaya Lev, Yoel Yaari, Alexander M. Binshtok.
Article of the Month October 2016
Safra Neuron Screen: Design and Fabrication  
Abstract:
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Article of the Month November 2016

Article of the Month December 2016
The Impact of Structural Heterogeneity on Excitation-Inhibition Balance in Cortical Networks Itamar D. Landau, Robert Egger, Vincent J. Dercksen, Marcel Oberlaender, Haim Sompolinsky
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Article of the Month December 2016
Pallidal spiking activity reflects learning dynamics and predicts performance  Eitan Schechtman, Maria Imelda Noblejas, Avi D. Mizrahib, Omer Dauber, Hagai Bergman
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The Building
The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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