

A Computational Model of Interactions Between Neuronal and Astrocytic Networks  
The Role of Astrocytes in the Stability of the Neuronal Firing Rate

Data-driven study of synchronous population activity in generic spiking neuronal networks: How much do we capture using the minimal model for the considered phenomena?

Improvement of computational efficiency of a biochemical plasticity model

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Network-wide adaptive burst detection depicts neuronal activity with improved accuracy

Whole-cell morphological properties of neurons constrain the nonrandom features of network connectivity

Elevated levels of soluble CD26 and CD30 in multiple sclerosis

The effects of neuron morphology on graph theoretic measures of network connectivity  
The analysis of a two-level statistical model

On the effect of network structure and synaptic mechanisms on sustained bursting activity

In silico study on structure and dynamics in bursting neuronal networks

Significance of graph theoretic measures in predicting neuronal network activity

Effects of local structure of neuronal networks on spiking activity in silico

Emergence of global and local structural features during development of neuronal networks

Effects of structure on spontaneous activity in simulated neuronal networks

Computational study of structural changes in neuronal networks during growth: a model of dissociated neocortical cultures  
Julkaisun otsikon käännös: : Computational study of structural changes in neuronal networks during growth: a model of dissociated neocortical cultures

Computational modeling of growth in cortical cultures using the NETMORPH simulation tool  
Julkaisun otsikon käännös: : Computational modeling of growth in cortical cultures using the NETMORPH simulation tool

Computational tools for assessing the properties of 2D neural cell cultures

Neural networks, cell cultures and some older work on data analysis.