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# The Dynamic Neuron A Comprehensive Survey Of The Neurochemical Basis Of Synaptic Plasticity

**the dynamic synapse - cell - neuron perspective** the dynamic synapse daniel choquet<sup>1,2,\*</sup> and antoine triller<sup>3,4,5,6,\*</sup> <sup>1</sup>interdisciplinary institute for neurosciences, cnrs, umr 5297, 146 rue le 'o saignat, 33077 bordeaux, france <sup>2</sup>iins, university of bordeaux, bordeaux, france <sup>3</sup>ecole normale supe ´rieure, institute of biologie at the ecole normale superieure (ibens), paris, f-75005, france **spinal reflexes - department of molecular & cell biology** - dynamic gamma motor neuron stimulated: dynamic response markedly enhanced, steady-state response gradually returns to original level. increase in activity of dynamic gamma motor neurons increase the dynamic sensitivity of the type ia endings but have no influence on the type ii endings. **dynamic nigrostriatal dopamine biases action selection** - neuron article dynamic nigrostriatal dopamine biases action selection christopher d. howard,<sup>1,3</sup> hao li,<sup>1,3</sup> claire e. geddes,<sup>1,2</sup> and xin jin<sup>1,4,\*</sup> <sup>1</sup>molecular neurobiology laboratory, the salk institute for biological studies, 10010 north torrey pines road, la jolla, ca 92037, usa <sup>2</sup>neurosciences graduate program, university of california, san diego, la jolla, ca 92093, usa **expression of terminal effector genes in mammalian neurons ...** - neuron article expression of terminal effector genes in mammalian neurons is maintained by a dynamic relay of transient enhancers ho sung rhee,<sup>1</sup> michael closser,<sup>1</sup> yuchun guo,<sup>2</sup> elizaveta v. bashkurova,<sup>1</sup> g. christopher tan,<sup>1</sup> david k. gifford,<sup>2</sup> and hynek wichterle<sup>1,3,\*</sup> <sup>1</sup>departments of pathology and cell biology, neuroscience, and neurology, center for motor neuron biology and disease, columbia stem **dynamic-structured semantic propagation network - arxiv** - the basic convolutional features are propagated into a dynamic-structured semantic neuron graph for hierarchical pixel-wise recognition. during training, dsspn only activates a sub-graph of semantic neurons that reach out the target labels for each image, leading to dynamic-structured feed-forward propagation and back-propagation. **dynamics of the fitzhugh-nagumo neuron model** - dynamics of the fitzhugh-nagumo neuron model zechariah thurman 6/19/13 abstract in this paper, the dynamical behavior of the fitzhugh-nagumo model is examined. the relationship between neuron input current and the ring frequency of the neuron is characterized. various coupling schemes are also examined, and their effects on the dynamics of the ... **dynamic social adaptation of motion-related neurons in ...** - dynamic social adaptation of motion-related neurons in primate parietal cortex naotaka fuji<sup>\*</sup>, sayaka hihara, atsushi iriki laboratory for symbolic cognitive development, riken brain science institute, wako, japan social brain function, which allows us to adapt our behavior to social context, is poorly understood at the single-cell level **in vivo modeling of human neuron dynamics and down syndrome** - of dynamic events, such as anatomical re-refinement (1) and the emergence of complex patterns of network activity. this limitation raises the question of how to model human neuron dynamics and their dysfunction in the many ... in vivo modeling of human neuron dynamics and down syndrome **analysis of the dynamics of a nonlinear neuron model** - analysis of a chaotic spiking neuron model is carried out. the analysis is performed to understand, and hence to exploit the rich dynamics that such system may provide, which then can be used in processing information tasks. to accomplish this, a chaotic spiking neural model called the nonlinear dynamic state (nds) neuron is used. the study ... **models of neuronal dynamics** - models of neuronal dynamics gregor kovacic neurons have remarkable numbers of shapes, sizes, and functions, and therefore also exhibit many different types of dynamics. the simplest is called "integrate and fire:" the neuron's membrane potential rises as the result of stimulation from other neurons until it reaches a threshold. **dynamic gabaergic afferent modulation of agrp neurons** - dynamic gabaergic afferent modulation of agrp neurons alastair s garfield<sup>1,2,9,10</sup>, bhavik p shah<sup>1,9,10</sup>, christian r burgess<sup>1,10</sup>, monica m li<sup>1,10</sup>, chia li<sup>3,4</sup>, jennifer s steger<sup>1</sup>, joseph c madara<sup>1</sup>, john n campbell<sup>1</sup>, daniel kroeger<sup>5</sup>, thomas e scammell<sup>5</sup>, bakhos a tannous<sup>6</sup>, martin g myers jr<sup>7,8</sup>, mark l andermann<sup>1</sup>, michael j krashes<sup>3,4</sup>, and bradford b lowell<sup>1</sup> **dynamic behavior for a network of izhikevich neurons with ...** - dynamic behavior for a network of izhikevich neurons with recurrent synaptic input spencer p. ward university of califronia, san diego spward@ucsd abstract many different neuron models have been devised in order to explain the function-ing of neurons. the most common being the integrate and fire and the hodkin-huxley models. **in vivo modeling of human neuron dynamics and down syndrome** - observation of dynamic events such as anatomical refinement (1) and the emergence of complex patterns of network activity. this limitation raises the question of how to model human neuron dynamics and their dysfunction in the many incurable disorders that affect the developing cortex (2). **distributed neural network: dynamic learning via ...** - neuron microchips, and an output layer neuron microchip. learning happens completely on hardware via backpropagation without a data connection to a computer. tests showed that the prototype can learn the logical operations or, and, xor, and xnor, and that the system can accommodate dynamic changes in learning between logical operations.

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