

## Non-synaptic modulation of cortical network dynamics

Per Aronsson<sup>a,\*</sup>, Hans Liljenström<sup>a,b</sup>

<sup>a</sup>*Theoretical Physics, Royal Institute of Technology, S-100 44 Stockholm, Sweden*

<sup>b</sup>*Agora for Biosystems, Box 57, S-193 22 Sigtuna, Sweden*

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### Abstract

During neural communication by means of action potentials, small electromagnetic (EM) fields are also generated. We use a three layered cortical neural network model to study the effects of EM fields and gap junctions on the spatio-temporal network activity. We investigate the possible role of these effects in synchronizing activity, a phenomenon which has been observed in the olfactory cortex and hippocampus. The simulation results support the notion that fast synchronization of activity in distant parts of the neural network are made possible by means of EM fields and/or gap junctions. © 2000 Elsevier Science B.V. All rights reserved.

*Keywords:* Hippocampus; Electromagnetic interaction; Gap junctions; Neurodynamics; Associative memory

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### 1. Introduction

When neurons communicate with each other by means of action potentials, also small electromagnetic (EM) fields are generated. If several cells fire synchronously, these fields can become large enough to induce spikelets in neighboring cells [3,11]. Spikelets are small deviations in the membrane potential (up to 5 mV) with approximately the same duration as an action potential. Another means of non-synaptic (electric) interaction occurs through gap junctions. Here, one spiking cell is enough to induce spikelets in a connected cell [3,9,11]. Both types of spikelets could serve as complementary information carriers, a possibility which traditionally has been neglected in the literature.

There is strong evidence that EM effects could be of significance under certain, often pathological, conditions, but several studies show that even weaker fields than the

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\* Corresponding author.

*E-mail addresses:* per@theophys.kth.se (P. Aronsson), hali@theophys.kth.se (H. Liljenström).

# Dynamics of Synaptic Modulation

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De-Miguel, Kjell Fuxe, Extrasynaptic transmission is a unifying term for a wide variety of cellular processes in which outside of synaptic terminals transmitter substances activate extrasynaptic receptors Whereas synaptic transmission immediately refers to a process occurring at nerve terminals in which the arrival of a presynaptic impulse evokes exocytosis followed by a postsynaptic response within a millisecond time scale extrasynaptic transmission has a wide diversity of ultrastructural and therefore mechanistic associated phenomena In comparison to synaptic extrasynaptic exocytosis may last for seconds or even minutes thus expanding the timing of neuronal signaling Extrasynaptic transmission has now been demonstrated in central and peripheral neurons of vertebrates and invertebrates and involves many different types of transmitter substances than include low molecular weight transmitters acetylcholine GABA glutamate ATP and biogenic amines and peptides substance P vasopressin and others It may occur when transmitters leak out from the synaptic cleft and activate extrasynaptic receptors in neighboring neurons or glial cells or when axonal varicosities dendrites or the somata release transmitters in the absence of postsynaptic counterparts The release mechanisms also vary from one neuron type to another and from one neuronal compartment to another In some cases clear vesicles are apposed to the resting plasma membrane as in presynaptic terminals In other cases transmitters are packed onto dense core vesicles that rest at a distance from the release sites In between there are multiple morphological combinations that point to complementary mechanisms in different compartments of the same neuron and some times even in the same compartment For example serotonergic varicosities may combine clear and dense core vesicles in stereotyped arrays This diversity adds complexity to the nervous system and raises many questions that are waiting for answers Extrasynaptic transmission may be the main source of transmitter molecules causing volume transmission however this still lacks direct demonstration From the physiological point of view one may ask how does the neuronal firing pattern evokes synaptic or extrasynaptic transmitter release or what are the physiological effects of these modes of transmission From the behavioral point of view it becomes interesting to explore how circuits and therefore behaviors are modulated Some neurological disfunctions may also be related to deficiencies in extrasynaptic transmission however again direct studies are still lacking Developmental and evolutionary biologists may also find the topic inspiring Extrasynaptic transmission not only expands our view about how the nervous system works but also requires a change in the way we plan our research New technological and computational tools are now being applied to analyze intracellular and extracellular transmitter mobilizations or long term changes of neuronal circuits New definitions and mechanisms may become visible In the meanwhile this seems to be a good moment for a first common effort to analyze and discuss extrasynaptic transmission in different systems and from different perspectives

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