

\*\*\* Preprint \*\*\*

## Chapter 4

# Neuronal Arborizations, Spatial Innervation and Emergent Network Connectivity

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### Abstract

Neurons innervate space by their axonal and dendritic arborizations. Synapses can form when axons and dendrites are in close proximity. The geometry of neurons and their numerical densities in space are thus primary factors in the formation of synaptic connectivity of neuronal networks. A simulator of neuronal morphology based on principles of neural development (NETMORPH) has been used to show that realistic network connectivities emerge from realistic neuronal morphologies and simple proximity-based synapse formation rules.

### Key Words

neuronal morphology, network connectivity, presynaptic distances, postsynaptic distances, pathdistances, Euclidean distances, synapse multiplicity, network simulator, NETMORPH

## 4.1 Introduction

Activity dynamics underlying cognition depends crucially on the patterns and strengths of synaptic connections between neurons. Neurons innervate space by their axonal and dendritic arborizations as determined by their geometries. Axonal and dendritic arborizations are complex and show large variations in all their shape characteristics, such as in the number of segments and segment lengths, branching angles, tortuosity of branches, orientation of branches, thickness of branches, topology of their tree patterns, and their global 3D embedding, which may show some spherical symmetry or axial symmetry or even flat 2D patterns such as in Purkinje cells. Synapses can form only at those locations where axons and dendrites come sufficiently close to each other (Peters 1979). The geometry of neuronal arborisations and the numerical densities of neurons are therefore important determinants of synaptic connectivity of neuronal networks.

How neuronal morphology shapes neuronal network connectivity is, however, still poorly understood. From a computational point of view this question can be addressed by creating neuronal networks of computer generated or experimentally reconstructed neurons along with their axonal and dendritic arborizations in a given space and studying the emergent connectivity by applying Peters' rule (Peters 1979). The use of experimentally reconstructed

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**Hermann Cuntz, Michiel W.H.  
Remme, Benjamin Torben-Nielsen**

## **Chapter 4 Neuronal Arborizations Spatial Innervation And:**

*The Computing Dendrite* Hermann Cuntz, Michiel W.H. Remme, Benjamin Torben-Nielsen, 2013-11-23 Neuronal dendritic trees are complex structures that endow the cell with powerful computing capabilities and allow for high neural interconnectivity Studying the function of dendritic structures has a long tradition in theoretical neuroscience starting with the pioneering work by Wilfrid Rall in the 1950s Recent advances in experimental techniques allow us to study dendrites with a new perspective and in greater detail The goal of this volume is to provide a r sum of the state of the art in experimental computational and mathematical investigations into the functions of dendrites in a variety of neural systems The book first looks at morphological properties of dendrites and summarizes the approaches to measure dendrite morphology quantitatively and to actually generate synthetic dendrite morphologies in computer models This morphological characterization ranges from the study of fractal principles to describe dendrite topologies to the consequences of optimization principles for dendrite shape Individual approaches are collected to study the aspects of dendrite shape that relate directly to underlying circuit constraints and computation The second main theme focuses on how dendrites contribute to the computations that neurons perform What role do dendritic morphology and the distributions of synapses and membrane properties over the dendritic tree have in determining the output of a neuron in response to its input A wide range of studies is brought together with topics ranging from general to system specific phenomena some having a strong experimental component and others being fully theoretical The studies come from many different neural systems and animal species ranging from invertebrates to mammals With this broad focus an overview is given of the diversity of mechanisms that dendrites can employ to shape neural computations

**Self-organizing Neural Maps: The Retinotectal Map and Mechanisms of Neural Development** John T. Schmidt, 2019-10-15 Self organizing Neural Maps From Retina to Tectum describes the underlying processes that determine how retinal fibers self organize into an orderly visual map The formation of neural maps is a fundamental organizing concept in neurodevelopment that can shed light on developmental mechanisms and the functions of genes elsewhere The book presents a summary of research in the retinotectal field with an ultimate goal of synthesizing how underlying mechanisms in neural development harmoniously come together to create life A broad spectrum of neuroscientists and biomedical scientists with differing backgrounds and varied expertise will find this book useful Describes the mechanisms relating to the developmental wiring of the retinotectal system Brings together the state of the art research in axon guidance and neuronal activity mechanisms in map formation Focuses on topographical maps and inclusion of multiple animal models from fish to mammals Explores the molecular guidance and activity dependent cue components involved in neurodevelopment

**Handbook of Brain Microcircuits** Gordon M. Shepherd, Sten Grillner, 2018 In order to focus on principles each chapter in this work is brief organized around 1 3 wiring diagrams of the key circuits with several pages of text that distil the functional significance of each microcircuit

**Society for Neuroscience**

**Abstracts** Society for Neuroscience. Annual Meeting, 1995

**Schizophrenia** Steven R. Hirsch, Daniel R.

Weinberger, 2008-04-15 Schizophrenia is one of the most complex and puzzling diseases to affect mankind. It is the most common of the severe mental illnesses, psychoses, with an estimated prevalence of 0.5-1% in the general population and accounts for a very large portion of the day-to-day workload of the average psychiatrist. 50% of long-term psychiatric patients in mental hospitals are schizophrenic. There is a great deal of controversy about the causes, diagnosis, and treatment of schizophrenia, with the consequence that a huge amount of research is carried out in the field by psychiatrists, psychologists, neuroscientists, and pharmacologists. For the average practising psychiatrist seeing schizophrenics on a regular basis, making sense of the vast body of information on the subject and filtering out what is of clinical relevance can be very difficult. There is a constant stream of new drugs emerging and the new generation of drugs, the so-called atypicals, is very effective but often expensive. The Editors, one American and one British, are both highly respected clinical psychiatrists who are probably the leading experts on schizophrenia from their respective countries and jointly have published almost 150 papers on the subject. They have brought together a strong group of contributors from the USA, UK, and Europe to produce what will be an essential reference for the trainee and practising psychiatrist. The book consists of four sections: descriptive aspects, causative aspects, physical treatments, and psychological/behavioural/social treatments. There will be discussion of the theoretical controversies over symptomatology, classification, and aetiology; the relationship of schizophrenia to the other psychoses; the significance of positive and negative symptoms and pre-morbid personality. There will be chapters on organic models of schizophrenia, neurodevelopmental, genetic, and structural studies, and the role of high expressed emotion. The final section will cover social and environmental treatment, the role of the families of schizophrenics, and the psychoanalytical therapies. There is a new chapter on the patient's perspective, written by a former patient.

Society for Neuroscience Abstracts Society for Neuroscience (U.S.). Annual Meeting, 1999

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web sample of warning letter to staff for stealing dollars sample warning letter for burglary of company property warning letter example for theft in workplace caution letter to staff for theft here is a sample from such a warning's note to an employee for pilfering company's property available your references template 1 only warning no

**letter from hr for stealing sample suspension letter from hr** - Jul 25 2022

web mar 18 2022 letter from hr for stealing sample suspension letter from hr manager for stealing at office march 18 2022 ref no to name of the employee designation employee id date date subject letter for stealing in office date dear

employee warning letter template us lawdepot - Dec 30 2022

web oct 6 2023 easily customize our employee warning letter to create a formal infraction notice for your employee create your warning letter quickly and easily using our straightforward template available in all states to print or download for

immediate use

**warning letter for stealing 10 samples warning letter for stealing** - Mar 21 2022

web sample 1 dear we are writing to you to inform you so you have been formally accused of theft according to our records on you took from we are taking this action to preserve our property and prevent further theft warning book to employment available theft stealing company

**warning letter for stealing 10 samples captions boy** - Aug 26 2022

web employer sample 3 dear employer we have received evidence that one of your employees has been stealing from you this is unacceptable behavior and it will not be tolerated we are writing to you to remind you that stealing is

**employee theft 2023 small business guide policy template** - Jun 23 2022

web jun 19 2023 employee theft is stealing an employer s property or assets for personal use it includes the more traditional ideas of theft such as stealing merchandise or money as well as stealing confidential data and time i e not working as many hours as recorded or performing personal tasks on company time even small businesses are at risk

**employee warning notice email template workable** - Apr 02 2023

web use the following employee warning notice email template as a point of reference and edit according to the type of misconduct make sure to include specific incidents that show how or when the employee committed a mistake at

**theft termination letter 6 templates writolay** - Apr 21 2022

web nov 7 2020 termination letter for theft dear name of the person this is to bring to your notice that our most confidential data has been stolen under your supervision it was not at all expected from any employee of the company we have decided to terminate your employment with the company and this decision will not be changed at any cost

[warning letter for theft 4 free templates writolay com](#) - Oct 08 2023

web aug 25 2023 what to write in a theft warning letter warning letter format can be a tricky one for some of you it is not a threat letter but an official notice to warn the employee regarding his unethical manners in the workplace address the person who is being called out for his stealing habits

**warning letter to employee for stealing money from office** - Nov 28 2022

web sep 15 2020 letter 1 subject warning letter to employee for stealing money from office dear smith you are directed to consider this as a warning letter that is being issued because you have been accused and found guilty of stealing money from the office of ms angela who is working as an assistant manager in this office

*warning letter template with definition and examples* - May 23 2022

web dec 24 2022 dear name of team member in accordance with our discussions on date of meeting you re receiving this warning for violating our conduct standards in this case the violation is state misconduct to reinforce our expectations we

have attached the conduct guidelines in this email letter