

## STRUCTURAL ASPECTS

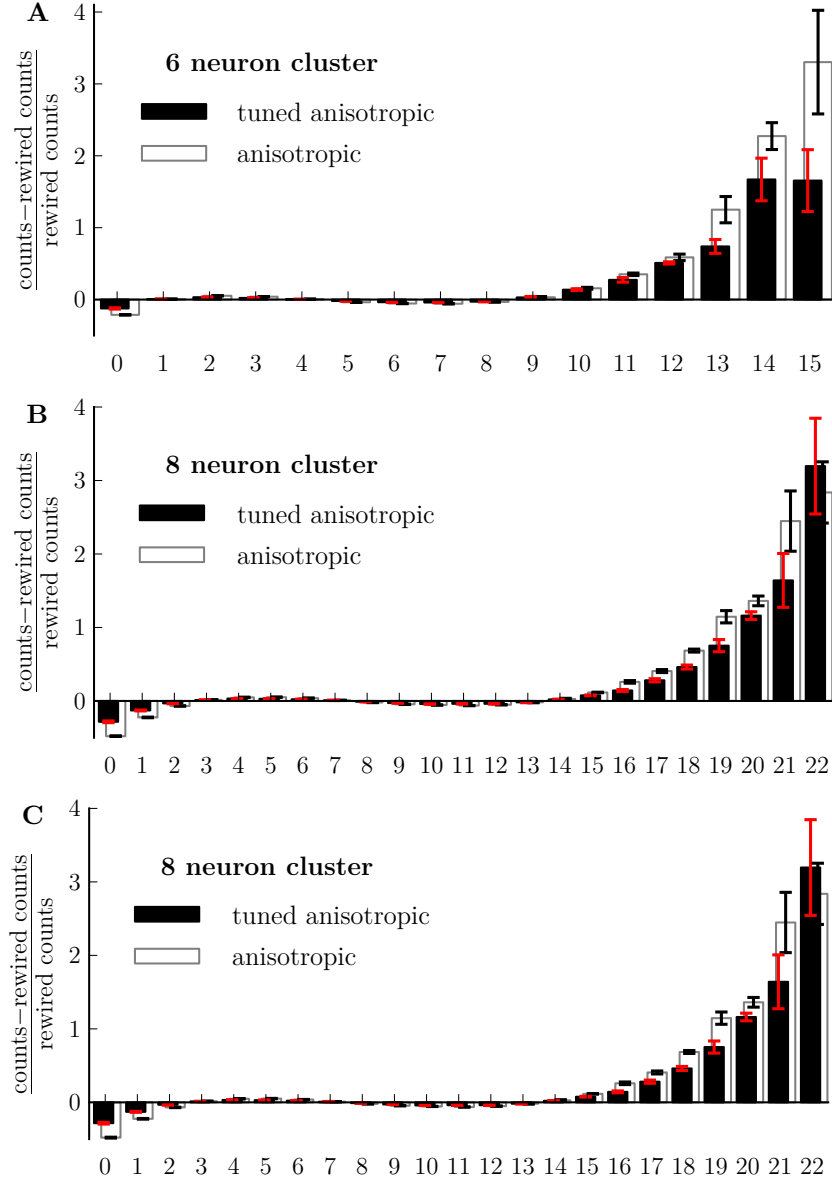
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Subjecting the anisotropic network model to a critical examination of its structural features, we identify prevalent patterns of connectivity and relate theoretical and computational results to findings from experiments in the rat's cortex.

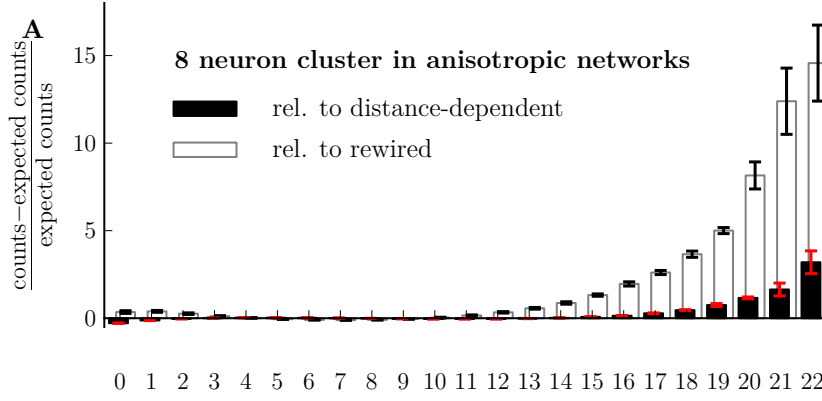
### 1.1 MOTIFS

In this chapter we analyze the structural. The term motif refers to... . Studies of [Song et al. \(2005\)](#) and [Perin et al. \(2011\)](#) show stuff. Per-nice2011, Sporns , Zhao2011.

we find resembling Perin et al.'s observation. We calculate



**Figure 1.1: Increased occurrence of high edge counts in neuron clusters in anisotropic networks** Showing the quotient of the difference Extracting the counts of three-node motifs in anisotropic (filled bars) an (4839ce41)



**Figure 1.2: Increased occurrence of high edge counts in neuron clusters in anisotropic networks** Showing the quotient of the difference Extracting the counts of three-node motifs in anisotropic (filled bars) an (7c826e10)

In their study, Perin et al. follow the observation of increased edge counts in neuron clusters with a common neighbor rule. Hebb (“fire together, wire together”). Here we also investigate our networks for the existence of a common neighbor relationship.