The formation of complex neural patterns is widely observed in various organisms. We propose a simple model for intrinsic circuit formation based on active Brownian motion.

**Abstract**

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**References**


**Acknowledgments**

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**Table**

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<th>A</th>
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This table represents the transition matrix of the system. The diagonal elements represent the probability of staying in the same state, while the off-diagonal elements represent the probability of transitioning to another state.

**Figure**

A schematic diagram illustrating the network organization of neural networks.
1. Diagram of non-integrated (left) and integrated (right) neural network generated by false

2. Figure 1. Integrated non-integrated (left) and integrated (right) neural network generated by false

3. Diagram of non-integrated (left) and integrated (right) neural network generated by false

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