

## Integrating Theoretical Frameworks and Computational Models: A Multidisciplinary Approach to Understanding Brain Function and Behavior

The human brain, a complex network of billions of neurons and synapses, continues to captivate scientists with its enigmatic workings. Unraveling brain function, from its fundamental chemical interactions to the manifestation of intricate behaviors and cognitive processes, stands as a pivotal challenge in modern neuroscience. This endeavor  $\frac{1}{4} - \frac{1}{4} - \frac{$ 

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01-Aug-2024, Manuscript No: jhcpn-24-148802; 02-Aug-2024, Pre-QC No: jhcpn-24-148802 (PQ); 16-Aug-2024, QC No: jhcpn-24-148802; 23-Aug-2024, Manuscript No: jhcpn-24-148802 (R); 02-Sep-2024, DOI: 10.4172/jhcpn.1000276

Biranchi H (2024) Integrating Theoretical Frameworks and Computational

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