



An Overview of Cognitive Neuroscience

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INTRODUCTION

Cognitive neuroscience is a science that deals with the biological processes which involves the neural connections connected to the brain. Cognitive neurosciences includes the mental or psychological and behavioural actions. Cognitive neuroscience is a combination of neuroscience and psychology with which it is interrelated. Cognitive is of conscious and intellectual activity or it is conscious thought process. The study of cognitive neuroscience includes the presentation or behavior of the human beings on how they judge, respond and performing of all the activities. The content which includes cognitive neuroscience is as of the techniques and the application of neurosciences, the translation of brain to the thought process or the activities performed. The foundation and the evolution of the cognitive science, the cognitive neuroscience language and reading of the cognitive neuroscience and processing. The evolution of Cognitive neuroscience has been identified over three decades ago. This cognitive neuroscience includes the heads or the brains in which it is being distributed to the whole body and also the physical environment. Cognitive neuroscience have developed theories of knowledge is the thing which is represented in brain and that is evaluated and shared among the individuals. Cognitive neuroscience is the science in which the nerves connected to the brain and the information is passed to the brain through these nerves and does like memory thinking understanding and performing of all the activities in the environment. Cognitive neuroscience disorders occurs when there is a reduced mental function that includes the problems with the memory, changes in behavior, trouble in performing of the regular activities and also difficulty in understanding the language. Some of the neurocognitive disorders includes multiple disease, dementia, prion disease, Huntington disease, Parkinson disease and Alzheimer's disease. Neurocognitive disorders are most likely to occur in elderly people when there is

an injury or infection. People who are elderly and having with history of cardiovascular disease, diabetes and blood pressure. Treatment for this neurocognitive disorders are of pain killers, antibiotics, surgery, occupational therapy and physical therapy to improve or to stabilize the conditions. Some of the neurocognitive disorders include dementia, delirium and amnesia. Early methods used in cognitive neuroscience includes is detected by using electroencephalography and MEG. Cognitive neuroscientists used other techniques like SPECT and PET to determine the when there is an alteration in processing activities through the neurons. Neurocognitive theories mainly depend upon the aspects of brain activities and processes. Recent trends or new techniques for cognitive neuroscience has been developing to identify the various structures in the brain and the interactions occurring between the different parts of the brain and also to check the processing activities. Advances in non-invasive neuroimaging techniques to develop how the social interactions have been performed. Optogenetics is one of the new techniques or development in cognitive neurosciences to determine the circuit function and its behavioral consequences. Neuroscience is about the discovery of specialized brain networks for the memory and cognition. Integrative neurosciences are which to consolidate data in the databases and from the various fields of psychology, biology, anatomy and clinical practice.

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DECLARATION OF CONFLICTING INTERESTS

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