

Do parameters cause schizophrenia?

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Abstract

Schizophrenia is a severe, currently incurable, relatively common mental condition. Its symptoms are as complex and widespread as to possibly represent more than one disease in its own right. It structurally and functionally affects various cortical and subcortical regions involved in cognitive, emotional and motivational aspects of behavior. Its treatment remains elusive.

My theoretical paradigm attempts to explain the complexity of schizophrenic symptoms. Building upon recent neural vulnerability and limbic dysregulation hypotheses, it offers a simplified mathematical model for the evolution of the limbic system under perturbation. Dependence of parameters and the concept of “bifurcation” could be the key to understanding the threshold between normality and disease.