## OMICS CONFERENCE SCIENCE & Stem Cell Research

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## Modeling stem cell migration to and within the hypo campus

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Central nervous system stem cells (hCNS SC) have been shown to seed the subventricular zone of the dentate gyrus of the hypocampus. However, the hit and miss targeting remains a stochastic process influenced by stationary and non-stationary factors. This paper considers the system biology of such models and the post- and pre- exposure conditional probabilities of correcting reaching target. The likelihood ratio for a positive exposure is computed under differing boundary conditions

## Biography

J. T. Efird completed his Doctorate in Neuro-Epidemiology (Biostatistics Concentration) at Stanford University School of Medicine. He currently is an Associate Professor in the Department of Public Health, Brody School of Medicine, East Carolina University (ECU) and Director of Epidemiology and Outcomes Research at the East Carolina Heart Institute. Additionally, he holds an appointment as Epidemiologist/Chief Statistician in the Center for Health Disparities Research and Leader of Shared Resources. Prior to joining ECU, Dr. Efird was Director of the Biostatistics Facility at the John A. Burns School of Medicine (Honolulu, Hawaii) and an Associate Member of the Cancer Research Center of Hawaii. Dr. Efird's research interests include stroke, brain tumors, and Parkinson's disease

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