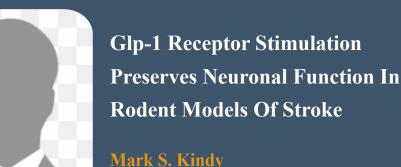
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ecent studies suggest that the incidence of stroke is elevated in individuals with Type 2 diabetes mellitus (T2DM), signifying common mechanisms. Stroke is the second leading cause of death worldwide and is the primary cause of disability in the USA. The pathophysiology of cerebral ischemic injury is complex, and numerous studies have demonstrated that oxidative stress and inflammation are key in the underlying mechanisms. T2DM or pre-T2DM, it is speculated that insulin resistance increases stroke susceptibility. We have developed novel glucagon-like peptide-1 receptor (GLP-1R) agonists to test their efficacy in diabetic stroke mice. We hypothesize that not only would P5 and derivatives have a significant impact on the development and progression of diabetes, but would reduce the influence of stroke pathogenesis. Specifically, P5 and the brainpenetrant derivatives would appreciably attenuate stroke and provide long-term preservation of "outcomes", resilience and sustainability. Using primary neuronal cultures and cell lines, the impact of P5 and derivatives we tested their protective role in cells treated with various concentrations in ischemia/ reperfusion injury. The impact of P5 and derivatives will be tested in a mouse models of T2DM (Leprdb/db mice) and stroke. The db/db with stroke mice will be treated with various doses of P5 and derivatives to determine the impact on the

initiation and/or progression of stroke. Our data show that P5 and derivatives have a significant impact on both in vitro and in vivo stroke models by reducing cell death and infarct volume and improves long-term behavioral outcomes. In conclusion, the present data demonstrates the benefit of GLP-1R agonists for primary stroke prevention and the reduction of fatal cerebrovascular outcomes. These studies suggest that studies are warranted to evaluate the benefit of these drugs for secondary stroke prevention.

Biography

Kindy is currently a Professor of Pharmaceutical Sciences department at the University of South Florida at Tampa. He is also a Senior Research Career Scientist in the VA. He received his Ph.D. in biochemistry at Boston University. He received a B.S. from the University of Massachusetts at Amherst. His research interest includes neuroscience and neurodegenerative diseases. He is the director of the Botanical Medicine Research and Education Consortium at USF. He is the author or coauthor of more than 230 papers in international refereed journals and more than 100 conference contributions. He has given numerous talks at international conferences.

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Advanced Techniques in Research:

Cholera surveillance System as the "continuous, systematic col lection, analysis and interpretation of health-related data need ed for the planning, implementation, and evaluation of public health practice. The aggregation of quality healthrelated data is essential to the success of all public health initiatives. Without correct and current data, diseases are misunderstood, health programs do not accomplish their goals, and resources are in correctly allocated. Functioning surveillance systems are neces sary for the success of global health initiatives. In developing countries, however, surveillance systems that collect useful and representative data are often non-existent and hard to create. The failure of surveillance systems in developing countries is often due to limited available resources, lack of knowledgeable staff, disorganization, and poor infrastructure for finding and reporting cases

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