Pharmacological Protection of Neurons Subsequent to Stroke and Traumatic Brain Injury
S. Mobashery
1 University of Notre Dame
Abstract

"Pharmacological Protection of Neurons Subsequent to Stroke and Traumatic Brain Injury"

Damage to the brain in certain diseases, such as traumatic brain injury (TBI) and stroke, is accompanied by remodeling of the extracellular matrix in attempts at recovery. Unfortunately, the repair mechanisms often cannot meet the physiological needs of the brain in time, which leads to a series of events resulting in tissue death in the affected areas. These effects manifest themselves within hours to days from the initial insult and provide a window of opportunity for therapeutic intervention. Currently, there are no therapeutics that rescue or protect the affected areas of the brain. I will disclose a class of molecules that are permeable through the blood-brain barrier and intervene in the disease progression in animal models of neurological diseases.