

13th Annual Conference on

DEMENTIA AND ALZHEIMER'S DISEASE

December 13-15, 2018 Abu Dhabi, UAE

Investigation of expression patterns of neurological proteins in serum and cerebrospinal fluid of patients suffering from neurodegenerative disorders

Ghulam Md Ashraf¹ and Asma Perveen²¹King Fahd Center for Medical Research-King Abdulaziz University, Saudi Arabia²Glocal University, India

Recent researches have shown neurological proteins to exhibit altered expression in patients suffering from Neurodegenerative patients (NDDs) like Alzheimer's Disease (AD), Parkinson's Disorder (PD), Vascular Dementia (VaD) and Amyotrophic Lateral Sclerosis (ALS). Serum and Cerebro Spinal Fluid (CSF) of various NDD patients were collected and the expression pattern of Galectins (Gal-1, Gal-3 and Gal-9) and Matrix Metalloproteinases (MMP-1, MMP-3 and MMP-9) was investigated. Quantitative ELISA measured the concentration of these proteins and a comparative analysis using other tools was done to understand their expression pattern. The findings of this work provided a definitive pattern of expression of Gals and MMPs in NDDs, which in turn proclaim their role as potential biomarkers to monitor the progression of the NDDs. These insights will in turn help in designing new and more promising therapeutics strategies for the NDDs.

Biography

Ghulam Md Ashraf is currently working as a Associate Professor in King Fahd Medical Research Centre, King Abdulaziz University. And he is his field of expertise are Biochemistry and Neurology. He is also designated as the associate editor in Frontiers in Aging Neuroscience.

Notes: