

**Short Communication Open Access** 

## A REVIEW ON GUTFLORA, BRAINGUT AXIS AND ALZHEIMER DISEASE

## Simachal Panda

Associate Professor, Pratap University, ¤

## **Abstract**

Alzheimer's disease (AD) is a neurodegenerative disease in which pathophysiological changes occurs in amyloid plaque and neurof brillary tangles. The studies have been revealed that micro biota-gut brain axis. Gut brain has various pathways of connection. Gut and spinal cord are connected together by vagus nerve. Brain stem nuclei may require direct connectivity with brain. Enteric nervous system may stimulated by gut bacteria. Blood circulation

producing chemicals such as monoamine and amino acid through lymphatic and vascular system may reach to brain. Its direct link with micro biota brain gut connectivity. Gut micro beta are responsive to neurotransmitters signaled by brain. Flora have the ability to synthesize and release neuron transmitters as serotonin, dopamine and histamine. "neuroinfammation" occurs due to neuron release substance. It is common in AD. In this context the idea developed is probiotics can reduce anti-infammatory activity in AD by alteration in gut micro biota, which is known as dysbiosis. It can be due to gut infection, age. Healthy diatery pattern along with balanced prebiotics and probiotics decline in neurocognitive efects in AD.

## Anded by, Ands' Powered by, Wild Esearch Gacil'&

blited Medical Concil'He achieved YougScientist Award in By Dc Rish at Hilton hternational at Monbai. He has recieved Ynd Tent And at Malmp Malaysia by Boleag, APT and SPEHe has been attached to a number of reted instittion

bely Professional biersity, alandhar, Puab, hdia. He is an MB in parmacetical management pesently workings Associate Professor with academic and research activities as in takal biversity, Andhra Pharmacetics, at Pratap bliersity School of Pharmacetical bliersity, bely Professional bliersity, flinity Moliersity, Ed Sciences, dip Rasthan, hdia. He has & esearch and reie prs plished in reped national and international prnals He has on the achievment awd title, Stinished Esearcher in Pharmacy"

J Speech Pathol Ther 2021 Volume 6. Issue 4 .