

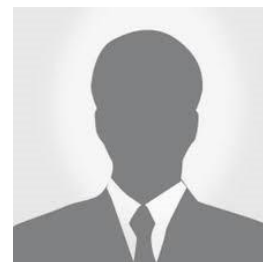
SYMBIOTIC RELATIONSHIP WITH GUT MICROBIOMES AND PARKINSON DISEASE

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Abstract:

Parkinson disease (PD) is a progressive chronic nervous system disease resulted from decrease in amount of dopamine production in substantia nigra. Studies shows that human being evolved a symbiotic relationship with their gut microbiome, a complex microbial community composed of bacteria, archaea, protists, and viruses. The enteric nervous system (ENS) is a gateway for the bidirectional communication between the brain and the gut, mostly through the vague nerve (VN). Environmental exposure plays a vital role in both the composition and functionality of the gut microbiome and may contribute to susceptibility to neurodegenerative disorders, such as Parkinson's disease (PD). The neuropathological hallmark of PD is the widespread appearance of alpha-synuclein aggregates in both the central and peripheral nervous systems, including the ENS. Studies suggest that gut toxins can induce the formation of α -syn aggregates in the ENS, which may then be transmitted in a prion-like manner to the CNS through the vague nerve. PD is strongly associated with aging and its negative effects on homeostatic mechanisms protecting from inflammation, oxidative stress, and protein malfunction. In this mini-review we attempt to concisely summarize the papers in the field of the gut-brain axis and Parkinson's disease. We focus on evidence showing gut-association and related microbial-derived components of PD. Therefore, the gut microbiome emerges as a potential target for protective measures aiming to prevent PD onset.



Speaker Biography:

Adeloye Opeyemi has completed his PhD at the age of 30 years from University of Jos and postdoctoral studies from University of Medical Science. He is the director and Founder of Rosado Neurodegenerative disease Research and Foundation Centre Jos, a non governmental organization. He has published more than 47 papers in reputed journals and has been attended different conferences, seminar and symposium home and abroad.

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