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Molecular and biochemical trajectories from diabetes to Alzheimer's disease: A critical appraisal

Sandhir Rajat, Gupta Smriti

Abstract

Diabetes mellitus (DM), a metabolic disorder is a major orchestra influencing brain and behavioral responses via direct or indirect mechanisms. Many lines of evidence suggest that diabetic patients apparently face severe brain complications, but the story is far from being fully understood. Type 2 diabetes (T2D), an ever increasing epidemic and its chronic brain complications are implicated in the development of Alzheimer's disease (AD). Evidences from clinical and experimental studies suggest that insulin draws a clear trajectory from the peripheral system to the central nervous system. This review is a spot light on striking pathological, biochemical, molecular and behavioral commonalities of AD and DM. Incidence of cognitive decline in diabetic patients and diabetic symptoms in AD patients has brought the concept of type 3 diabetes (T3D) to attention. T3D reflects insulin resistance brain state with oxidative stress, cognitive impairment, activation of various inflammatory cascade and mitochondrial

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George Perry (0000-0002-6547-0172) - ORCID ...

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Distinguished as one of the top Alzheimer's disease researchers with over 1000 ... Chile, and member of the Iberoamerican Molecular Biology Organization.

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