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May 28, 2010 · Epidemiological and basic science evidence suggest a possible **shared pathophysiology** between **type 2 diabetes mellitus** (T2DM) and **Alzheimer's disease** (AD). It has even been hypothesized that AD might be '**type 3 diabetes**'.

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Author: Kawser Akter, Emily A. Lanza, Stephen ...

Publish Year: 2011

## Genomic insights into the causes of type 2 diabetes - The ...

[https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(18\)31132-2/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(18)31132-2/fulltext)

Genome-wide association studies have implicated around 250 **genomic** regions in predisposition to **type 2 diabetes**, with evidence for causal variants and genes emerging for several of these regions. Understanding of the underlying mechanisms, including the interplay between  $\beta$ -cell failure, insulin sensitivity, appetite regulation, and adipose storage has been facilitated by the integration of ...

Cited by: 16

Author: Claudia Langenberg, Luca A Lotta

Publish Year: 2018

## Oxidative toxicity in diabetes and Alzheimer's disease ...

<https://jbiomedsci.biomedcentral.com/articles/10.1186/s12929-017-0379-z> ▾

Sep 19, 2017 · Reactive oxidative species (ROS) toxicity remains an undisputed cause and link between **Alzheimer's disease** (AD) and **Type-2 Diabetes Mellitus** (T2DM). Patients with both AD and T2DM have damaged, oxidized DNA, RNA, protein and lipid products that can be used as possible **disease progression markers**.

Cited by: 58

Author: Waqar Ahmad, Bushra Ijaz, Khadija Shab...

Publish Year: 2017

## Linking type 2 diabetes and Alzheimer's disease | PNAS

<https://www.pnas.org/content/107/15/6557> ▾

Apr 13, 2010 · Since the initial Rotterdam study suggesting an increased risk to develop **dementia** and **Alzheimer's disease** (AD) in patients with **type 2 diabetes mellitus** (T2D), a number of clinical and **epidemiological studies** have provided further direct evidence to strengthen the link between T2D and AD (1, 2).

Cited by: 86

Author: Weiping Han, Cai Li

Publish Year: 2010



**Name of Journal:** *World Journal of Diabetes*

**Manuscript NO:** 53262

**Manuscript Type:** REVIEW

**Shared (epi)genomic background connecting neurodegenerative diseases and type 2 diabetes**

Caputo V *et al.* Shared genomics connecting neurodegeneration and T2D

Valerio Caputo, Andrea Termine, Claudia Strafella, Emiliano Giardina, Raffaella Cascella

### Abstract

The progressive aging of populations has resulted in an increased prevalence of chronic pathologies, especially of metabolic, neurodegenerative and movement disorders. In particular, type 2 diabetes (T2D), Alzheimer's disease (AD) and

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**Shared genetic** regulatory networks for cardiovascular **disease and type 2 diabetes** in multiple populations of diverse ethnicities in the United States. PLoS Genet. 13, e1007040. [PMC free article] [Google Scholar] Twine NA, Janitz K, Wilkins MR and Janitz M 2011.

**Cited by:** 7

**Author:** Douglas Arneson, Yong Zhang, Yong Zha...

**Publish Year:** 2018

## [Shared Pathological Mechanisms Between Diabetes Mellitus ...](https://link.springer.com/article/10.1007/s40495-019-00191-8)

<https://link.springer.com/article/10.1007/s40495-019-00191-8> ▾

Jun 17, 2019 · Neurodegeneration is a term for the description of the progressive neuronal and neural structure loss, function, and their populations in the central nervous system (CNS). Recent studies have shed light on **shared** pathological mechanisms including inflammation, mitochondrial dysfunction, and oxidative stress between **diabetes** mellitus (DM) and **neurodegenerative** disorders. The association ...

**Author:** Ava Nasrolahi, Javad Mahmoudi, Ali N...

**Publish Year:** 2019

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