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Epigenetic basis of Alzheimer disease

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Abstract

Alzheimer disease (AD) is the primary form of dementia that occurs spontaneously in older adults. Interestingly, the epigenetic profile of the cells forming the central nervous system changes during aging and may contribute to the progression of some neurodegenerative diseases such as AD. In this review, we present general insights into relevant epigenetic mechanisms and their relationship with aging and AD. The data suggest that some epigenetic changes during aging could be utilized as biomarkers and

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Alzheimer's disease occurs in two types, **early-onset and late-onset**, and both have epigenetic components. Epigenetics references **modifications to DNA that are external in nature, meaning there is no change in the base DNA sequence of genes**, but there is a **change in the expression of the genes**.

[Epigenetics and Alzheimer's disease - Seasons Wellness](#)

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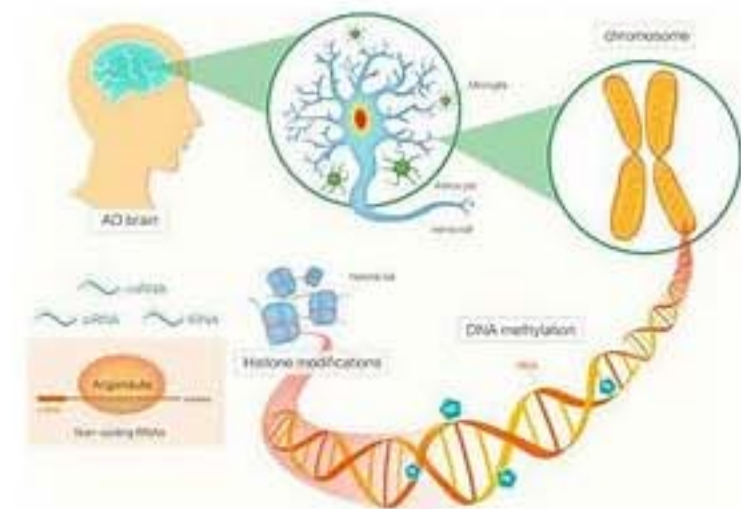


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Alzheimer's disease (AD) is a well-known neurodegenerative disorder that imposes a great burden on the world. The mechanisms of AD are not yet fully understood. Current insight into the role of epigenetics in the **mechanism of AD focuses on DNA methylation, remodeling of chromatin, histone modifications and non-coding RNA regulation.**



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[Alzheimer's Disease Genetics Fact Sheet | National ...](#)

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Dec 24, 2019 · **Genetic mutations (permanent change in one or more specific genes)** can cause diseases. If a person inherits a genetic mutation that causes a certain disease, then he or she will usually get the disease. Sickle cell anemia, cystic fibrosis, and some cases of early-onset Alzheimer's disease are examples of inherited genetic disorders.

Alzheimer's Disease

Medical Condition



A type of brain disorder that causes problems with memory, thinking and behavior.

- Very common (More than 3 million cases per year in US)
- Often requires lab test or imaging
- Treatments can help manage condition, no known cure
- Can last several years or be lifelong

Alzheimer's is associated with genetic, lifestyle and environmental factors that affect the brain cells over time. At the initial stage of the disease, forgetfulness and mild confusion is seen. Over time, recent memories also start erasing. Advanced stage symptoms vary from person to person. There is no cure for Alzheimer's disease. Medication can temporarily reduce some symptoms or slow down the progression of the condition in some people.

Symptoms