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Dementia and Neurodegenerative Diseases is a specialty section of Frontiers in Neurology that aims to publish significant clinical and translational research findings on all aspects of neurodegenerative diseases.

## **Frontiers in Neurology | Dementia and Neurodegenerative ...**

Introduction. Neurodegenerative disorders, like Alzheimer's disease (AD), Parkinson's disease (PD), and amyotrophic lateral sclerosis (ALS), are severe neurological disorders that severely affect the quality of life of patients and result in a heavy burden on the economy and society.

## **Neurovascular Unit Dysfunction and Neurodegenerative Disorders**

Neurodegenerative diseases are progressive degenerative

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conditions characterized by the functional deterioration and ultimate loss of neurons. These incurable and debilitating diseases affect millions of people worldwide, and therefore represent a major global health challenge with severe implications for individuals and society. Recently, several neuroprotective drugs have failed in human ...

## **Frontiers | In vitro Models of Neurodegenerative Diseases**

...

Neurodegenerative Diseases: ↑ Brain illness that causes neurons to die and the brain to shrink. Parkinson's Disease: ↑ A neurodegenerative disease whose main symptoms are related to problems with movement, due to neuron death in the substantia nigra. Substantia Nigra: ↑ A brain area that communicates with the basal ganglia so that we ...

## **What are Neurodegenerative Diseases and How Do They**

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Neurodegenerative diseases of the central nervous system (CNS) are characterized by progressive neuronal death and neurological dysfunction, leading to increased disability and a loss of cognitive or motor functions. Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis have neurodegeneration as a primary feature. However, in other CNS diseases such as multiple ...

## **Frontiers | Aging and Neurodegenerative Disease: Is the ...**

Frontiers reserves the right to guide an out-of-scope manuscript to a more suitable section or journal at any stage of peer review. Medical illnesses such as Alzheimer's disease, Parkinson's disease, Huntington's disease and Amyotrophic Lateral Sclerosis fall under the umbrella of the definition of Neurodegenerative disorders (NDDs).

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## **Metabolic Alterations in Neurodegenerative Disorders ...**

Ferroptosis promotes the progression of neurodegenerative diseases, while the expression of Nrf2 and its target genes (Ho-1, Nqo-1, and Trx) has been declined with aging, therefore, there is still insufficient evidence for ferroptosis and Nrf2 regulatory networks in the field of neurodegenerative diseases.

## **Frontiers | Nrf2 and Ferroptosis: A New Research Direction ...**

Maintaining proper eye alignment is necessary to generate a cohesive visual image. This involves the coordination of complex neural networks, which can become impaired by various neurodegenerative diseases. When the vergence system is affected, this can result in strabismus and disorienting diplopia. While previous studies have detailed the effect of these disorders on other eye movements ...

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## **Frontiers | Vergence and Strabismus in Neurodegenerative ...**

The critical regulatory role of leptin in the neuroendocrine system has been widely reported. Significantly, leptin can improve learning and memory, affect hippocampal synaptic plasticity, exert neuroprotective efficacy and reduce the risk of several neuropsychiatric diseases. In terms of depression, leptin could modulate the levels of neurotransmitters, neurotrophic factors and reverse the ...

## **Frontiers | Role of Leptin in Mood Disorder and ...**

Perhaps this is also true in fronto-temporal dementias associated with tau mutations on chromosome-17, for which heterogenous phenotypes have been reported. It is possible that further exploration of the prion-like properties of disease-associated proteins may elucidate the mechanisms by which

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neurodegenerative disease pathology spreads.

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### **Challenges in Neurodegeneration Research**

Genetic Risk and Neurodegenerative Diseases; Frontiers in  
Neuroepigenetics; Receive an update when the latest issues in  
this journal are published. ... Illuminating a novel theory on  
mechanisms underlying the pathogenesis of Alzheimer's,  
cerebral small vessel, and neurodegenerative diseases.

### **Neurobiology of Disease | Vol 144, October 2020 ...**

Frontiers in Clinical Drug Research - CNS and Neurological  
Disorders is a book series that brings updated reviews to readers  
interested in advances in the development of pharmaceutical  
agents for...

### **Neurodegenerative diseases - cause and cure | EurekAlert**

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Glia have an important role in neurodegenerative diseases, including Alzheimer's Disease (AD), Parkinson's Disease (PD), amyotrophic lateral sclerosis (ALS) and multiple sclerosis (MS). Glial cells are the main cell population in the Nervous ... Submission Open. Showcase Your Editorial Contributions. Frontiers recognizes the importance of peer review and the valuable contribution made by editors.

## **Loop | Haigang Ren**

In this special issue of Frontiers in Neuropharmacology, we have sought to bring together experts in this new emerging area of neurobiology. The best place to start in ... many neurologists and neurobiologists still argue that any inflammatory or glial response in neurodegenerative disorders is simply a secondary phenomenon of no pathogenic or ...

## **Neurodegenerative disorders: the Glia way forward**

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A large body of evidence points to the positive effects of dietary supplementation of acetyl-L-carnitine (ALC). Its use has shown health benefits in neuroinflammation, which is a common denominator in a host of neurodegenerative diseases. ALC is the principal acetyl ester of L-Carnitine (LC), and it ...

## **The neurobiology of acetyl-L-carnitine**

Neurodegenerative diseases consist of a wide range of disorders characterized by nerve cell progressive degeneration or death. It affects the nervous tissue and also causes various neuropsychological effects. This is a term for a variety of conditions that affect neurons in the human brain in particular.

## **Neurodegenerative Diseases - [frontiersmeetings.com](https://www.frontiersmeetings.com)**

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fundamental aspects, clinical perspectives and new insights

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Interestingly, several miRNAs differentially expressed in neurodegenerative diseases such as miR-9, miR-29 family, and miR-34 family are considered to be potential tumor suppressor miRNAs (Table Table1 1). Cancer and neurodegenerative disorder may be influenced by common miRNA pathways that regulate differentiation, proliferation and death of ...

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