

Research Progress on Parkinson's Depression

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Abstract. Parkinson's disease has a high prevalence of depression, which is frequently undiagnosed and untreated and has a tight relationship to health-related quality of life. In order to study the latest findings in this field, This article summarizes the research related to PD depression from 2010 to 2022, respectively, from the pathogenesis research, including the influence of genes, nutritional factors, and proteins, and it also summarizes the current treatment methods for PD depression, including drug therapy, behavioral therapy, and psychotherapy. It also summarizes recent clinical trials, including new drugs and cognitive therapies. Finally, the future development direction of Parkinson's depression has been prospected. This paper finds that new genes and nutritional factors have been found in the pathological study of Parkinson's depression, and new combinations of drug therapy have been added to the treatment of Parkinson's depression, as well as new methods of using behavioral therapy and psychological intervention to assist the treatment.

Keywords: Parkinson's depression, LRRK G2019S mutations, treatment, clinical report

1. Introduction

Parkinson's disease (PD) is a long-lasting neurodegenerative condition that manifests both motor and non-motor symptoms. Depression is a common comorbidity of Parkinson's disease (PD), with prevalence estimates ranging from 22% to 91% [1][2][3]. In older adults, estimates of concurrent anti-parkinsonian and antidepressant use range from 25% to 58% of patients [4], with selective serotonin reuptake inhibitors emerging as the most popular antidepressant. Additionally, depression has a significant role in predicting health-related quality of life, with increasing severity being correlated with a decline in quality of life.

Despite the negative effects on patients' lives, depression in PD patients is frequently underdiagnosed [5], possibly as a result of overlapping somatic symptoms and a lack of regular screening. This may lead to undertreatment of the disorder.

2. Currently predicted pathogenesis of Parkinson's depression

Intraneuronal dopaminergic neuron degeneration The characteristic neuropathological lesions of PD are lewy bodies located in the substantia nigra pars compacta. The loss of distinct noradrenergic and serotonergic neurons in PD is also well documented to occur, indicating that the neurological illness affects areas of the brain outside the midbrain. These neural networks work together to control mood and reward systems, as well as mood abnormalities in both PD patients and the general public [6].

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Advances in Parkinson's Disease Research: Exploring Biomarkers and Therapeutic Strategies for Halting Disease Progression Carmen Venegas, Anastasia Bougea, Yildiz Degirmenci, 2025-08-19 Parkinson's disease PD is the fastest growing neurodegenerative disorder being prevalent in 1% of people aged above 65 years PD is characterized by dopaminergic neurons and the accumulation of alpha synuclein syn rich protein in Lewy bodies Although aging is the highest risk factor for developing PD the genetic predisposition and exposure to environmental factors such as herbicides or pesticides can induce oxidative stress DNA damage and neuronal death contributing to PD pathogenesis To date there is not a therapy to halt the disease Many studies have shown multiple altered pathways offering different approaches for developing an effective therapy however the current therapies are merely symptomatic and they include a substitution of dopamine by the administration of Levodopa the use of catechol O O methyltransferase inhibitors monoamine oxidase inhibitors or Dopamine agonist among others However these treatments can only relieve some of the symptoms they do not slow the progression of the disease and they have limited long term efficacy

Progress in Alzheimer's and Parkinson's Diseases Abraham Fisher, Israel Hanin, Mitsuo Yoshinda, 2012-12-06 This book represents the fourth in a series of international conferences related to Alzheimer's AD and Parkinson's PO diseases The first one took place in Eilat Israel in 1985 the second in Kyoto Japan in 1989 and the third in Chicago IL USA in 1993 This book incorporates the proceedings of the Fourth International Conference on Progress in Alzheimer's and Parkinson's Diseases held in Eilat Israel on May 18-23 1997 This Conference was the 41st in the series of annual OHOLO Conferences sponsored by the Israel Institute for Biological Research IIBR It was also conducted under the auspices of the Alzheimer's Association Ronald and Nancy Reagan Research Institute USA The Conference was attended by 550 participants from 28 countries representing a broad spectrum of research interests and included a well balanced representation from academia clinical institutions and pharmaceutical industry The four and one half day meeting served as an excellent medium for surveying the current preclinical and clinical developments in AD PO and other related disorders The scientific program was divided into 24 oral sessions and daily poster sessions The conference culminated in a round table discussion There were 122 talks and 161 posters This book

incorporates a combination of both

[Recent Advances in Parkinson's Disease](#), 2020-04-02 Recent Advances in Parkinson's Disease Research Volume 252 represents a follow up on two previous volumes presented in the Progress in Brain Research series Volumes 193 and 193 both published in 2010 It contains a collection of overview articles written by leading researchers in Parkinson's discussing the most important advances made in basic translational and clinical research Topics of note in this new release include What can we learn from iPS cell models of PD What can we learn from animal models of PD Molecular basis of selective neuronal vulnerability in PD Role of innate and adaptive immunity in Parkinson's disease and much more Covers all key aspects of current research on Parkinson's disease Includes topics that range from basic studies on

disease models and pathogenic pathways e.g protein misfolding immune and glial mechanisms to clinical studies on disease features microbiome pathophysiology and therapeutic approaches Presents articles authored by world leaders in their respective fields Research Advances in Neurological and Sensory Disorders National Institute of Neurological Diseases and Blindness (U.S.),1962 Advances in Research on Neurodegeneration R. Horowski,Y. Mizuno,C.W. Olanow,W. Poewe,P. Riederer,J.A. Stoessel,M.B.H. Youdim,2013-04-09 The 10th International Winter Conference on Neurodegeneration IWCN has taken place from February 14 16 2002 at the lovely SchloB Ziethen an old prussian manor in Prussia faute de mieux called Schlo i e cas tle or residence This place is 20 km off Tegel Airport Berlin s main airport and has been beautifully restored by baroness Edith von Thiingen nee von BULow i e of historical Prussian aristocracy it lends itself rather perfectly for the IWCN type of small interdisciplinary workshops on neurodegenera tion which combine short lectures with plenty of discussion In this context we could quote Alexander von Humboldt s famous opening words for one of the first international scientific meetings held at Berlin on September 18 1828 The main purpose does not consist in a mutual reading of manuscripts all to be printed after at least one year in specialised publications but in the personal communication amongst those who work in similar scientific fields the oral and thus more stimulating exchange of ideas might they represent facts opinions or doubts the foundation of friendly relations which convey illumination to our sciences serene grace to our lives and tolerance and mildness to our habits Berlin Sept 18 1828 Alexander von Humboldt To the IWCN aficionado it may come as a little surprise that this is the pub lication of the 10th Winter Conference as this might mean that they must have missed number 9

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Hettie, Kuangyu Shi, Jiehui Jiang, 2024-01-22 Translational Advances in Alzheimer's, Parkinson's, and Other Neurodegenerative Dementias Jiehui Jiang, Kuangyu Shi, Fangyu Peng, Chih-Yu Hsu, Woon-Man Kung, 2022-07-05

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Striatal Signaling: Two Decades of Progress Emmanuel Valjent, This Research Topic aims to highlight and cover recent understanding on striatal signaling pathways which are activated by a variety of therapeutic agents or drugs of abuse in physiological and pathological context The recent development of different mouse models allowing the identification of specific cell types and neuronal circuits in which a given signaling pathway is activated in various physiological and pathological conditions provides essential information and allowed to untangle the complexity of study signal transduction in the brain in vivo

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