Role of Cytokine Networks in Neurodegenerative Diseases: Implications

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Abstract

Neurodegenerative diseases, including Alzheimer's disease (AD), Parkinson's disease (PD), and amyotrophic lateral sclerosis (ALS), are characterized by progressive neuronal dysfunction and loss. While the specific pathological hallmarks vary between these diseases, chronic neuroinfammation, mediated by complex cytokine networks, is a common underlying feature. This review examines the multifaceted roles of cytokine networks in the pathogenesis of these neurodegenerative conditions, exploring their implications for disease progression and therapeutic intervention.

Key ords: C e; Ne a a ; Ne deeea ; A e e deae; Pa deae; A caeace ; C e e ; I d a

In rod c ion

de e e a e d ea e Ne e a ca ba ea de , a ec d de. e e deb a b с d a e caace edb 🛚 ессе e e e а а ead аае 🛙 е cadec.We ec e e e Keac d ea e a e , a c ead e e ce e e КС [1]. C се а а е. а а e а ed a e e ce a c ca са a a c e ce a e е ĸ а а e. ее ec e e e ac e ca a a ca a 🛙 d ae e ce ac a d e ce e С Face ed e е e e e e КС e e K ee e de e e a e d ea e : A e e' ее а а d ea e (AD), Pa d ea e (PD), a d a c aea (ALS), d c e 🛙 d ea e се ca e a d e a eae caee.

Res 1 s

С e CNS, e e e d e e e ec e c b a a d dea . P e а а а С е, c a **B**ac −a a (TNF-), -1 be a (IL-1), e e ec a d -6 (IL-6), a e a caed e e ca e C e e c e ca ac a e с a, e e de e ce eba, ead e a ed e ea e 🕅 e а eda, cea aek}e e a cce 🛙 а а e ca d ec d ce e a a ec а , c d 🛿 dea ec a ece a d K ac a d c da e e . I AD, ee aed e e 🛽 🛛 с - a а е, TNF-, IL-1, a d IL-6, a e bee de ec ed c d eba ad d(CSF) 🛙 a e . e e c ce eb a e a e ca ed e 🛙 а K a d-(A) a e ad e b a e (NFT), e a ca a a 🛚 AD, a d c b e а acd 🛙 cade . I PD, а - a а e, c a TNF- a dIL-1, a e ca ed ede e e a С Kida есе e baa a, eba e d ea e [2]. a ec ed еес e ca ac a e а da e e,c aa d e b с е a dea . e, c a TNF- a d IL-1, a e I ALS, a a с ca ed ede e e a ĸ e ac dad e b a e, ea a 🛙 d ea e. e e c e ca c b e с, da e e, ad a e ead ес а а e dea .W e а а с eaeeea

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eca, cd 🛙 ba а e ac a edeaceade a 🛚 🛛 🖉 eea e ce e ba.C e dced e e caa eb dс ba ba e add ec e ce e аКС.F e e, de aee ed e e a ece Ka e с e a a e a e c a e 🛚 e de e e a e d e a e e [4]. Seeac ca a ae e aed ee cac 🛙 a -TNFed. Ta e eae AD, be a e bee ec e d a e e dee a ace a с eae cae e.F e a ce, e d c 🕅 а-аасе е b ec c e d c a a ed c a bebeeca. а F e, e e edece ea eKI e cb e e dac ee ad ec e a a D b , a baace e c b a, ca ead c ea ed eca a adbee ac e а а

Disc ssion

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Page 2 of 2