

# Getting Away from Alzheimer's: Nitric Oxide Mediates Neuroprotection Against Neurotoxicity

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## Abstract

Alzheimer's disease (AD) is a neurodegenerative disorder characterized by progressive memory loss and behavioral changes. There are currently no known treatments or medications for AD. Nitric oxide (NO) has long been  $|^{*}x|_{a}^{a} \approx \cdot x \{ \{ [ ] \}^{c} [ - c^{0} \}^{+} | [c] (zik i) + c^{-} (c i) (zik i) + c^{-} (zik$ 

### Introduction

e f e Aze e d ea e а dege e a e d de of dec e, a d a e dea с e , c g a e a a edb ad ea eec f eade [1]. e с acc а f f de e a d ea e (AD), e a e Aze e с e b 2050 a ec 36 d de a d ed c ed e e [2]. eg ba ec сс fAze e d ea e (AD) a e a ed be \$604 b 2010, а e ead g ca e f d ab a d g e ea f e de e e e e ca e. e e c ef AD, a d e ed ca a a e a a ab e С e d de a e ca e a d a e e ec e ea g ca e .AD e d ea e bec de а e а e a age ; de c fe de с a e d а е a ead es a d g eed f a, f e e ab e ea e а 1. с ce

eesac ca e f e a f AD ca e, a ad c e AD, c e ;Н ее, a eg ca c de ad a ced age a d e f e a e e f e fac а ge e c E ge e [5]. N e a e bee а e а e AD, a a e a d f de fa а ea e ed f AD. -2 ge e (PSEN1, PSEN2) a e e e e -1 e e e fa a A z e e d ea e. Add а, e a e а d ca a d e a d ec 0c6 e e c6 e а ba ed age fad eae a g e a ca ec e ac e g f da f bee f e a . A а g a d e beg ebef e e a e a с е а ge e a e g [7-9].Bef e f A a d de e а e acc а a ed a, ADba a e bee es e ce s da ea d a e f eac e е, с a e e ec e caedbeeaedee f A a d ige a d ge ece.ef а a ed

a ca b etace ba e a d e c d c f eac e 1 ge е ec e . Add a d а, f ge a bee a ac а ,add g a cga, а а a ca c g a d e b e AD a ge e [10]. S a c а с a dea ae ec ec e e ec feea ge c eca , a c a f c egc e e a d a g age- e a ed b a eg eed, edeae .1 eba, e ead g g e dec e a d dea . сg

# In Alzheimer's Disease, Nitric Oxide : Mechanisms and E ects

Ν c 1 de (NO) а g a ec e fa - eac e g g ec e a d a ada ce а с e e ce a ca be b e beca e a ga e a ca f ee d e ac e bae. а d a ed e ec ade beb NO A c b a f c gcaeecaaada, а ed a e а e a NO ad e da. e e a, d c b e, a d e d a e ( NOS , NOS , a d eNOS , e ec e ) a e e c ded b c ge e , NOS1, NOS2, a d NOS3.W e NOS ez e ee d d ced ce ad de e de Ca2+/а а ca d , b NOS a d eNOS a e c e e: e ed ad e e Ca2+/ca d f ac a . I e Aze e e b a eac f e e ce  $(AP_a^5(\tilde{P}))$ Tal.10<sup>'</sup><sub>a</sub>T  $T_{4} = 3(a) - 1(a) + 1(a) +$ ba e, de c e ce eb aca e, c ea ed а а gag, adcage e a ga gaea fea e а f AD [11]. e e a ee ad c g c e age ega d g e e f NO AD a d e e e ec e e 1 c, a

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