

Title (en)
METHODS AND COMPOSITIONS FOR PROTECTING AGAINST NEUROTOXIC AGENTS

Title (de)
VERFAHREN UND ZUSAMMENSETZUNGEN ZUM SCHUTZ GEGEN NERVENGIFTE

Title (fr)
MÉTHODES ET COMPOSITIONS DE PROTECTION CONTRE DES AGENTS NEUROTOXIQUES

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Application
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Abstract (en)
[origin: WO2011137317A1] Provided are methods for protecting against or reducing neurotoxicity of exposure to a neurotoxic agent, comprising administering an electrokinetically altered aqueous fluid as provided herein in an amount sufficient to provide for neuroprotection against the neurotoxic agent, preferably where protecting against or reducing loss of motor coordination in the subject exposed to the neurotoxin is afforded. In certain aspects, protecting or reducing neurotoxin-mediated neuronal apoptosis is afforded, and/or activating or inducing at least one of PI-3 kinase and Akt phosphorylation in neurons is afforded. Preferably, administering the fluid comprises administering the fluid prior to exposure to the neurotoxic agent. Additionally provided are methods for preserving or improving motor coordination in a subject having a neurodegenerative condition or disease, comprising administering an electrokinetically altered aqueous fluid as provided herein in an amount sufficient to provide for preserving or improving motor coordination in the subject.

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Citation (search report)
• [A] LEE ET AL: "Phosphatidylinositol-3-kinase activation blocks amyloid beta-induced neurotoxicity", TOXICOLOGY, LIMERICK, IR, vol. 243, no. 1-2, 14 December 2007 (2007-12-14), pages 43 - 50, XP022391166, ISSN: 0300-483X
• [T] USHIKUBO F Y ET AL: "Evidence of the existence and the stability of nano-bubbles in water", COLLOIDS AND SURFACES. A, PHYSICACHEMICAL AND ENGINEERING ASPECTS, ELSEVIER, AMSTERDAM, NL, vol. 361, no. 1-3, 20 May 2010 (2010-05-20), pages 31 - 37, XP027030201, ISSN: 0927-7757, [retrieved on 20100311]
• [T] CHAPLIN MARTIN: "Nanobubbles (ultrafine bubbles)", 6 November 2015 (2015-11-06), pages 1 - 12, XP055235029, Retrieved from the Internet <URL:http://www1.lsbu.ac.uk/water/nanobubble.html> [retrieved on 20151209]
• [T] ASHUTOSH AGARWAL ET AL: "Principle and applications of microbubble and nanobubble technology for water treatment", CHEMOSPHERE., vol. 84, no. 9, 1 August 2011 (2011-08-01), GB, pages 1175 - 1180, XP055234995, ISSN: 0045-6535, DOI: 10.1016/j.chemosphere.2011.05.054
• See references of WO 2011137317A1

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