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WO 2007/039436 A1

(54) **Title:** TREATMENT OF NEURODEGENERATIVE DISORDERS

(57) **Abstract:** The invention relates to the use of an erythropoietic molecule for the production of a medicament for the treatment of neurodegenerative disorders of the brain and the spinal cord by administering an effective amount of the medicament in the blood circuit of a patient in need of such therapy wherein the erythropoietic molecule comprises an erythropoietin moiety having at least one free amino group selected from the group consisting of human erythropoietin and analogues thereof which have the sequence of human erythropoietin modified by the addition of from 1 to 6 glycosylation sites or a rearrangement of at least one glycosylation site; said erythropoietin moiety being covalently linked to "n" poly(ethylene glycol) groups of the formula -CO-$(CH_2)_x$- $(OCH_2CH_2)_m$-OR; and a kit comprising an erythropoietic molecule according to the invention.