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(54) Title: METHODS OF GENERATING A NEURAL TISSUE USING MUSCLE-DERIVED CELLS

(57) Abstract: Use of human myogenic satellite cells for the manufacture of a medicament identified for treating a medical condi-
tion of the CNS is provided.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL07/00637

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61K 9/00(2006.01),35/34(2006.01),35/30(2006.01),31/70(2006.01);A01N 63/00(2006.01);C12N 5/00(2006.01),5/08(2006.01);G01N 33/53(2006.01)**

 USPC: 424/400,93.1,93.7,570,548;435/377,7.1,382,368;514/44;977/913,904
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 424/400,93.1,93.7,570,548;435/377,7.1,382,368;514/44;977/913,904

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

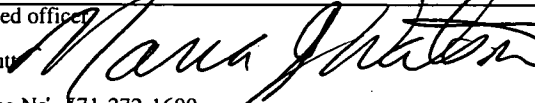
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	ALESSANDRI et al. Isolation and culture of human muscle-derived stem cells able to differentiate into myogenic and neurogenic cell lineages. Lancet 2004, Vol 364, pages 1872-1883, especially page 1872, Interpretation; page 1873, Methods; page 1874, Lesion and engraftment; Figures 2, 4)	1, 3, 5-7, 9-11, 13-15, 17 ----- 2, 4, 8, 12, 16, 18
X --- Y	ROMERO-RAMOS et al., Neuronal differentiation of stem cells isolated from adult muscle. Jour Neurosc Res 2002, Vol 69, page 894-907, especially abstract and the whole article.	1, 7-12 ----- 2-6, 13-18
Y	US Patent Application Publication No. US 2003/0124102 A1 (RUDNICKI et al) 3 July 2003 (03.07.2003), page 5, para 0062, 0064, 0065; page 7, para 0083, Example 1.	2-5, 14, 16, 18
Y	MIGNON et al. Transplantation of Multipotent cells extracted from adult skeletal muscles into the subventricular zone of adult rats. The J Comp Neurol 2005, Vol 491, pages 96-108, especially abstract, page 98, col 1; Figure 7G-I; page 102, col 1, para 1.	1, 3, 9-12

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SCHULTZ et al. Human stem cells isolated from adult skeletal muscle differentiate into neural phenotypes. J Neurosc Meth 2006, Vol 152, pages 144-155, entire article.	1-18
A	KRABBE et al. Neural transdifferentiation of mesenchymal stem cells - a critical review. APMIS 2005, Vol 113, pages 831-844, entire article.	1-18
A	STEFFEL et al. Migration and differentiation of myogenic precursors following transplantation into the developing rat brain. Stem cells 2003, Vol 21, page 181-189, entire article.	1-18
A	GOLDRING et al. Muscle stem cells. J Pathol 2002, Vol 197, pages 457-467, entire article.	1-18

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

STN (BIOSIS, MEDLINE, DISSABS, SCISEARCH), WEST (PGPB, USPT, USOC, DERWENT, EPAB, JPAB); SEARCH TERMS: myogenic satellite cells, brain, spinal cord, nf-70, myoD, Pax-7, neuron marker, autologous, culture, proliferation, immortalization, matrix, capsule. Inventor's name.