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(21) International Application Number: PCT/EP96/02311 (22) International Filing Date: 31 May 1996 (31.05.96) (30) Priority Data: 9510944.3 31 May 1995 (31.05.95) GB (71)(72) Applicants and Inventors: BOGAERT, Thierry [BE/BE]; Voorstraat 36 bus 11, B-8500 Kortrijk (BE). STRINGHAM, Eve [CA/CA]; 9326-133 A Street, Surrey, British Columbia V3V 5R5 (CA). VANDEKERCKHOVE, Joel [BE/BE]; Rode Beukendreef 27, B-Loppem (BE). (74) Agent: BALDOCK, Sharon, Claire; Boulton Wade Tennant, 27 Fumival Street, London EC4A 1PQ (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 30 January 1997 (30.01.97)
(54) Title: UNC-53 FROM C. ELEGANS AND ITS USES IN TESTING COMPOUNDS INVOLVED IN THE CONTROL OF CELL BEHAVIOUR AND PHARMACEUTICAL COMPOSITIONS (57) Abstract UNC-53 protein of <u>C. elegans</u> or its functional equivalent is identified as a signal transducer/integrator involved in controlling the rate and directionality of cell migration and/or cell shape. Nucleic acid sequences encoding UNC-53 protein or its functional equivalent, such as genomic or cDNA are used to transfect <u>C. elegans</u> or mammalian cell lines useful for identifying inhibitors or enhancers of the UNC-53 protein. Any of the inhibitors or enhancers identified or the UNC-53 protein itself or sequences encoding UNC-53 protein can be used in the preparation of medicament for treatment of neurological conditions such as Alzheimer's or Huntingdon's disease, peripheral neuropathies for inhibition of metastasis.		

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International Application No
PCT/EP 96/02311

A. CLASSIFICATION OF SUBJECT MATTER					
IPC 6	C12N15/12	C07K14/435	C12N5/10	A01K67/027	A01K67/033
	A01H5/00	A61K38/17	C07K16/18	C12N5/26	

B. FIELDS SEARCHED

IPC 6 C07K C12N A01K A61K A01H

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EMBL Database Entry CEF45E10 Accession number Z47810; 26 January 1995 XP002019188 & NATURE, vol. 368, no. 6466, 3 April 1994, LONDON GB, pages 32-38, R. WILSON ET AL.: "2.2 Mb of contiguous nucleotide sequence from chromosome III of <i>C. elegans</i>" see the whole document --- -/--	1-10

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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Date of the actual completion of the international search

4 December 1996

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INTERNATIONAL SEARCH REPORT

Int. onal Application No

PCT/EP 96/02311

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JOURNAL OF NEUROSCIENCE 13 (10). 1993. 4254-4271. ISSN: 0270-6474, XP000612286 HEKIMI S ET AL: "Axonal guidance defects in a Caenorhabditis elegans mutant reveal cell-extrinsic determinants of neuronal morphology."	19,43
A	see abstract see page 4255, left-hand column, paragraph 2 - paragraph 3 see page 4267, right-hand column, paragraph 2 - page 4271, left-hand column, paragraph 3 -----	1-18, 20-42, 44-88