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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GENE TRANSFER FOR REGULATING SMOOTH MUSCLE TONE

(57) Abstract: The invention provides methods of regulating smooth muscle tone in a subject, comprising the introduction, into smooth muscle cells of the subject, of a DNA sequence encoding a potassium channel protein involved in the regulation of smooth muscle tone, and expression of the DNA sequence in a sufficient number of smooth muscle cells of the subject to regulate smooth muscle tone in the subject. The invention provides methods of gene transfer for treating erectile dysfunction, bladder dysfunction, and other smooth muscle disorders.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39308

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 48/00; C12N 15/63					
US CL : 424/93.2; 514/44; 435/320.1					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/93.2; 514/44; 435/320.1					
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)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate, of the relevan	t passages	Relevant to claim No.	
1	6,150,338 A (GELIEBTER et al) 21 November	2000 (21.11.2000), colu	mns 2, 5 and	1-32 and 34-44	
Y US	6. US 6,130,207 A (DEAN et al) 10 October 2000 (10.10.2000), column 3 bridging column 4.			1-32 and 34-44	
	US 6,271,211 B1 (CHRIST et al) 07 August 2001 (07.08.2001), abstract, columns 13-14.			1-32 and 34-44	
				•	
Further documents are listed in the continuation of Box C. See patent family annex.					
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	shed prior to the international filing date but later than the	a document memb	or or the same patent	y	
Date of the actual completion of the international search		Date of mailing of the international search report 27 SEP 2005			
Name and mailing	06.2005) address of the ISA/US	A at 1 d or			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Dave T. Nguyen T. Roberts for			
Alexandri Facsimile No. (703	ia, Virginia 22313-1450	Telephone No. (571) 2			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39308

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. 6.4(a).	Claims Nos.: 33 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This Internat	ional Searching Authority found multiple inventions in this international application, as follows:			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. Remark on				
	No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)