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(54) Title: COMPOSITIONS AND METHODS FOR THE TREATMENT OF ANORECTAL DISORDERS

(57) Abstract: Compositions and methods for the treatment of patients with anorectal disorders including colostomy are provided in which certain compounds including, but not limited to, NO donors, calcium channel blockers, cholinergic modulators (including acetylcholine storage blocking agents and acetylcholine vesicle storage blocking agents),  $\alpha$ -adrenergic receptor antagonists (including  $\alpha_1$ -adrenergic antagonists and  $\alpha_2$ -adrenergic antagonists),  $\beta$ -adrenergic receptor agonists (including  $\beta_2$ -adrenergic antagonists and  $\beta_3$ -adrenergic antagonists), phosphodiesterase inhibitors, cAMP-dependent protein kinase activators (e.g., cAMP mimetics), superoxide scavengers, potassium channel activators (including ATP-sensitive potassium channel activators and activators of the Maxi-K channels), estrogen-like compounds, testosterone-like compounds, benzodiazepines, adrenergic nerve inhibitors, antidiarrheal agents, HMG-CoA reductase inhibitors, smooth muscle relaxants, adenosine receptor modulators, adenylyl cyclase activators, endothelin receptor antagonists, bisphosphonates, cGMP-dependent protein kinase activators (e.g., cGMP mimetics), and combinations thereof are used.

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## INTERNATIONAL SEARCH REPORT

International application No.

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61K 31/35, 56, 165

US CL : 514/182, 451, 620

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. : 514/182, 451, 620

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)  
STN, WEST**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/35434 A2 (CELLEGY PHARMACEUTICALS, INC.) 22 June 2000(22.06.2000). See entire document, particularly abstract, pages 4-22.	1-4, 9, 12, 15-31, 34-51, 53-71, 73-81. 85-88.

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

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"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
"E" earlier application or patent published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
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