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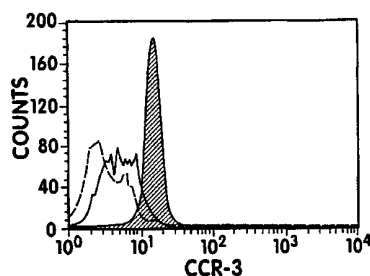
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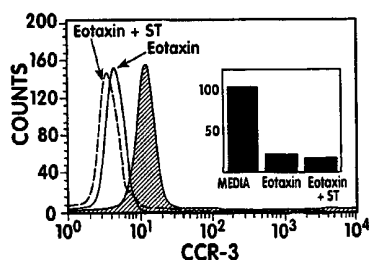
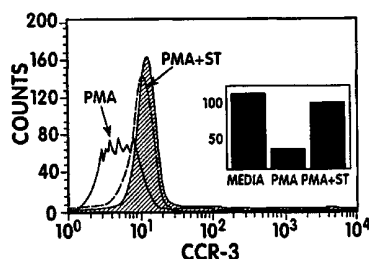
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[Continued on next page]

(54) Title: INTRACELLULAR PHARMACEUTICAL TARGETING



(57) Abstract: A method and composition to target compounds into cells such as eosinophils. A ligand for a CCR-3 eosinophil surface receptor is provided under conditions to bind to the receptor and cause internalization of the ligand-CCR-3 complex. A compound, such as a drug in an active or inactive form, may be bound to the ligand and delivered to an intracellular site of the cell where it may subsequently become activated. The methods and compositions may be used to treat a variety of eosinophil-mediated disorders, for example, allergies.



WO 00/62814 A3



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INTERNATIONAL SEARCH REPORT

Intern 1al Application No

PCT/US 00/10360

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K47/48

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)

IPC 7 A61K

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)

CHEM ABS Data, EMBASE, BIOSIS, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 00 04926 A (MCDONALD JOHN R ; COGGINS PHILIP J (CA); OSPREY PHARMACEUTICALS LIM) 3 February 2000 (2000-02-03) page 65, line 27; claims; example 3 ---	1-28
Y	GARCIA-ZEPEDA, EDUARDO A. ET AL: "Human monocyte chemoattractant protein (MCP)-4 is a novel CC chemokine with activities on monocytes, eosinophils, and basophils induced in allergic and nonallergic inflammation that signals through the CC chemokine receptors (CCR)-2 and -3" J. IMMUNOL. (1996), 157(12), 5613-5626 , XP002154597 abstract --- -/--	1-28

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

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *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
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- *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.
- *&* document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

22/12/2000

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/10360

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	ZIMMERMANN, NIVES ET AL: "Molecular analysis of CCR - 3 events in eosinophilic cells" J. IMMUNOL. (2000), 164(2), 1055-1064 , XP002154598 abstract ---	1-3
X	WO 97 41154 A (MERCK & CO) 6 November 1997 (1997-11-06)	1-28
Y	page 24, line 13; claims; table 1 page 26, line 33 ---	1-28
P,X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ZIMMERMANN, NIVES ET AL: "CC chemokine receptor-3 undergoes prolonged ligand-induced internalization" retrieved from STN Database accession no. 131:86736 XP002154599 abstract & J. BIOL. CHEM. (1999), 274(18), 12611-12618 , ---	1-3
A	WO 98 11218 A (KOCHER THEODOR INST ;LEUKOSITE INC (US)) 19 March 1998 (1998-03-19) claims ---	1-28
A	WO 97 00960 A (RINGLER DOUGLAS J ;LEUKOSITE INC (US); NEWMAN WALTER (US); PONATH) 9 January 1997 (1997-01-09) claims ---	
A	WO 96 22371 A (BRIGHAM & WOMENS HOSPITAL ;LEUKOSITE INC (US); PONATH PAUL D (US);) 25 July 1996 (1996-07-25) claims -----	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-28 relate to an extremely large number of possible compounds . In fact, the claims contain so many options or variables, that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and/or concise), namely page 8, line 9-20 and those compounds recited in the example and closely related homologous compounds.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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