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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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(54) Title: USE OF INTERLEUKIN-1 CONJUGATES IN THE TREATMENT OF DIABETES

(57) Abstract: The invention provides compositions, pharmaceutical compositions and vaccines for the treatment, amelioration and / or prophylaxis of diabetes, preferably of type II diabetes. The compositions, pharmaceutical compositions and vaccines of the invention comprise a core particle and an antigen, wherein said antigen comprises an interleukin-1 (IL-I) molecule. When administered to an animal, preferably to a human, said compositions, pharmaceutical compositions, and vaccines induce efficient immune responses, in particular antibody responses, wherein typically and preferably said antibody responses are directed against IL-I. Thus, the invention provides methods of treating, ameliorating or preventing diabetes, preferably type II diabetes, by way of active immunization against IL-I.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K38/20 C07K14/545 A61K39/12 A61P3/10

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)
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)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	WO 2007/039552 A (CYTOS BIOTECHNOLOGY AG [CH]; BACHMANN MARTIN [CH]; SPOHN GUNTHER [CH]) 12 April 2007 (2007-04-12)	1-4,6, 10-20,24
Y	the whole document	5,7-9, 21-23, 25,26

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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"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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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
21 July 2009	27/08/2009

Name and mailing address of the ISA/	Authorized officer
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INTERNATIONAL SEARCH REPORT

International application No
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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.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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