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(71) Applicant (for all designated States except US): **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** [US/US]; 1350 Massachusetts Avenue, Suite 727, Cambridge, MA 02138 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GRUSBY, Michael, J.** [US/US]; 5 Nightingale Path, Newton, MA 02459 (US). **TANAKA, Takashi** [JP/JP]; 869-2, OUBA-CHO, Aoba-ku, Kanagawa, Yokohama 225-0023 (JP).

(74) Agents: **DECONTI, Giulio, A.** et al.; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).

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8 February 2007

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: SLIM COMPOSITIONS AND METHODS OF USE THEREOF

(57) Abstract: This invention is based, at least in part, on the discovery of a novel nuclear protein which contains both PDZ and LIM domains, SLIM (STAT-interacting LIMP. SLIM interacts with activated STAT molecules. The invention also provides methods of using these novel SLIM compositions. The invention also provides therapeutic methods involving the SLIM nucleic acid and protein molecules of the invention.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
INV. G01N33/68

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)  
G01N

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, WPI Data, PAJ, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/099048 A (EXELIXIS, INC; FRIEDMAN, LORI; PLOWMAN, GREGORY, D; BELVIN, MARCIA; FR) 12 December 2002 (2002-12-12) page 2, lines 8-30 page 4, lines 2-6,11-23 page 20, line 27 - page 23, line 2	1,4,9, 10,17,18
Y	----- -/--	11-13

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

"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)

"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

"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

"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 <b>7 July 2006</b>	Date of mailing of the international search report <b>17 0 NOV 2006</b>
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  <b>VON EGGELKRAUT, R</b>
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2006/008121

## Box 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.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  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.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

2, 3 (fully); 1, 4, 9-13, 17, 18, 32-37, 41, 44-50, 53-57  
61-68 (partially)

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 2, 3 [fully]; 1, 4, 9-13, 17, 18, 32-37, 41, 44-50, 53-57, 61-68 [partially]

Polypeptides comprising the LIM consensus sequence having an ubiquitin E3 ligase activity and their uses in screening assays and in methods of modulating protein degradation.

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2. claims: 5-8, 19-29 [fully]; 1, 4, 9-18, 32-71 [partially]

Polypeptides comprising the LIM consensus sequence interacting with a STAT molecule and their uses in screening assays, as therapeutics and in methods of modulating IFN-production by a cell.

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3. claims: 30, 31 [fully]; 32, 34-71 [partially]

Polypeptides comprising the LIM consensus sequence modulating protein folding, protein transport and/or protein secretion by a cell and their use in methods of modulating protein folding, protein transport and/or protein secretion by a cell.

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/008121

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LOUGHRAN G ET AL: "Mystique is a new insulin-like growth factor-I-regulated PDZ-LIM domain protein that promotes cell attachment and migration and suppresses anchorage-independent growth" MOLECULAR BIOLOGY OF THE CELL 2005 UNITED STATES, vol. 16, no. 4, 19 January 2005 (2005-01-19), pages 1811-1822, XP002386562 ISSN: 1059-1524 page 1812, column 1, line 8 - page 1814, column 2, line 4	34-37, 44-50, 53-57, 62-68
Y	-----	11-13, 32,33
Y	EP 1 394 182 A (EUROPROTEOME AG) 3 March 2004 (2004-03-03) page 2, line 58 - page 3, line 1 page 6, lines 27-36 claims 7,8	32,33
A	----- US 6 740 495 B1 (ISSAKANI SARKIZ D ET AL) 25 May 2004 (2004-05-25) column 16, line 35 - column 18, line 4 column 21, line 47 - column 28, line 65	2,3,41, 61
A	----- US 2003/099996 A1 (TOMLINSON JAMES E ET AL) 29 May 2003 (2003-05-29) pages 2-3, paragraph 21-33 page 4, paragraphs 43,44 pages 18-22, paragraph 191-222	
A	----- ZHOU Q ET AL: "Cypher, a striated muscle-restricted PDZ and LIM domain-containing protein, binds to [alpha]-actinin-2 and protein kinase C" JOURNAL OF BIOLOGICAL CHEMISTRY 09 JUL 1999 UNITED STATES, vol. 274, no. 28, 9 July 1999 (1999-07-09), pages 19807-19813, XP002386563 ISSN: 0021-9258 cited in the application page 19807 - page 19813, column 1, line 24	
A	----- TORRADO MARIO ET AL: "Pdlim2, a novel PDZ-LIM domain protein, interacts with alpha-actinins and filamin A." INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE. NOV 2004, vol. 45, no. 11, November 2004 (2004-11), pages 3955-3963, XP002386564 ISSN: 0146-0404 abstract	
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## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2006/008121

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DAWID I B ET AL: "LIM domains: multiple roles as adapters and functional modifiers in protein interactions" TRENDS IN GENETICS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 14, no. 4, April 1998 (1998-04), pages 156-162, XP004112319 ISSN: 0168-9525 cited in the application page 158; table 1 -----	

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Information on patent family members

International application No

PCT/US2006/008121

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