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(54) Title: METHODS FOR TREATING DISEASE BY REGULATING CLL CELL SURVIVAL

(57) Abstract: The present teachings include methods for regulating apoptosis in a cell comprising contacting the cell with an agent capable of neutralizing BAFF or APRIL. In yet another teaching a method for treating leukemia is provided. In yet another embodiment, a method for detecting inhibitors of CLL is provided. These and other features, aspects and advantages of the present teachings will become better understood with reference to the following description, examples and appended claims.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/15572

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **G01N 33/566**(2006.01)

USPC: 436/501
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. : 436/501

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)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0012783 A1 (KINDSVOGEL) 16 Jan 2003 (16.01.2003), paragraphs 9-10 and 25-27.	1-22
X	US 2005/0043516 A1 (CHUNUTHARAPAI et al) 24 Feb 2005 (24.02.2005), paragraphs 25-34.	1-13
X	CERUTTI, A., CHADBURN, A., SCHATTNER, E., KNOWLES, D., AND BING, H. Lymphoma B cells evade apoptosis by overexpressing the TNF family members BAFF/BLyS and APRIL. Blood. November 2003, Vol 102. No. 11, pages 279b-280b	1-13
X	RENNERT, P., SCHNEIDER, P., CACHERO, T.G., THOMPSON, J., TRABACH L., HERTIG, S., HOLLER, N., QIAN, F., MULLEN, C., STRAUCH, K., BROWNING, J.L., AMBROSE, C., AND TSCHOPP, J. A soluble form of B cell maturation antigen, a receptor for the tumor nucrosis factor family member APRIL, inhibits tumor cell growth. December 2000, Vol. 192, No. 11, pages 1677-1683. Whole Document.	1-22

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

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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.
A	MEDEMA, J.P., PLANELLES-CARAZO, L., HARDENBERG, G., AND HAHNE, M. The uncertain glory of APRIL Cell Death and Differentiation. 2003, Vol, 10, pages 1121-1125. Especially page 1123.	1-22
A	MACKAY, F. AND AMBROSE, C. The TNF family members BAFF and APRIL: the growing complexity. Cytokine & Growth Factor Reviews. 2003, Vol. 14 pages 311-324. Whole document	1-22
A	GAUR, U. AND AGGARWAL, B.B. Regulation of proliferation, survival and apoptosis by members of the TNF superfamily. Biochemical Pharmacology. 2003, Vol 66, pages 1403-1408. Especially Table 2	1-22
A	DEFRANCE, T., CASAMAYER-PALLEJA, M., AND KRAMMER, P.H. The life and death of a B cell. Advances in Cancer Research. 2002, Vol 86, pp. 195-225. Particularly pp.215-218 and table 1.	1-22

INTERNATIONAL SEARCH REPORT

International application No.
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Continuation of B. FIELDS SEARCHED Item 3:
DIALOG
search terms: apoptosis, APRIL, proliferation inducing ligand
EAST
search terms: apoptosis, APRIL, BCMA