

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 February 2003 (13.02.2003)

PCT

(10) International Publication Number
WO 03/012061 A3

(51) International Patent Classification⁷: **C12Q 1/00**, 1/68,
G01N 33/53, 33/555, 33/569

(74) Agent: **TREVISAN, Maria, A.**; Wolf, Greenfield &
Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210
(US).

(21) International Application Number: PCT/US02/24410

(22) International Filing Date: 1 August 2002 (01.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/309,260 1 August 2001 (01.08.2001) US

(71) Applicants (*for all designated States except US*):
COLEY PHARMACEUTICAL GmbH [DE/DE];
Elisabeth-Selbert-Strasse 9, D-40764 Langenfeld, DE
(DE). **MAX-DELBRÜCK-CENTRUM FÜR MOLEKU-
LARE MEDIZIN (MDC)** [DE/DE]; Berlin-Buch,
Robert-Rössle-Str. 10, 13092 Berlin (DE).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LIPFORD,
Grayson, B.** [US/DE]; Innere Wiener Strasse 7a, D-81667
München (DE). **WAGNER, Hermann** [DE/DE]; Kaa-
gangerstrasse 36, D-82279 Eching (DE). **ZENKE, Martin**
[DE/DE]; Hans-Sachs-Strasse 61b, 16321 Schönow (DE).

(88) Date of publication of the international search report:
24 July 2003

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*



WO 03/012061 A3

(54) Title: METHODS AND COMPOSITIONS RELATING TO PLASMACYTOID DENDRITIC CELLS

(57) Abstract: The invention provides methods and compositions relating to a dendritic cell expression database.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/24410

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/00, 1/68; G01N 33/53, 33/555, 33/569

US CL : 435/ 4, 6, 7.1, 7.24

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. : 435/ 4, 6, 7.1, 7.24

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)
WEST, Medline, Caplus, Biosis, Embase, Prompt

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,866,115 A (KANZ et al.) 02 February 1999(02.02.1999), see entire document.	1-82
Y	US 6,017,527 A (MARASKOVSKY et al.) 25 January 2000(25.01.2000), see entire document.	1-82
Y	WU, L., et al. Derivation of dendritic cells from myeloid and lymphoid precursors. Int. Rev. Immunol. February 2001, Vol. 20, No. 1, pages 117-135, see entire document.	1-82
Y	RISSOAN, M.-C., et al. Reciprocal Control of T Helper Cell and Dendritic Cell Differentiation. Science, 19 February 1999, Vol. 283, pages 1183-1186, see entire document.	1-82
Y	LIU, Y.-J., et al. Dendritic cell lineage, plasticity and cross-regulation. Nat. Immunol. July 2001, Vol. 2, No. 7, pages 585-589, see entire document.	1-82

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:		"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
"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		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

26 March 2003 (26.03.2003)

Date of mailing of the international search report

18 APR 2003

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231
Facsimile No. (703)305-3230

Authorized officer
Helena D. Roberts for
G.R. Ewoldt
Telephone No. 703-308-0196