

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
7 September 2007 (07.09.2007)

PCT

(10) International Publication Number
WO 2007/100562 A3

(51) International Patent Classification:

A61K 31/202 (2006.01) **A61P 3/06** (2006.01)

(21) International Application Number:

PCT/US2007/004423

(22) International Filing Date:

19 February 2007 (19.02.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/777,334 28 February 2006 (28.02.2006) US

(71) Applicants (for all designated States except US):

BRISTOL-MYERS SQUIBB COMPANY [US/US]; Lawrenceville-Princeton Road, Princeton, NJ 08543-4000 (US). **CORNELL RESEARCH FOUNDATION, INC.** [US/US]; 20 Thornwood Drive, Suite 105, Ithaca, NY 14850 (US).

(72) Inventors; and

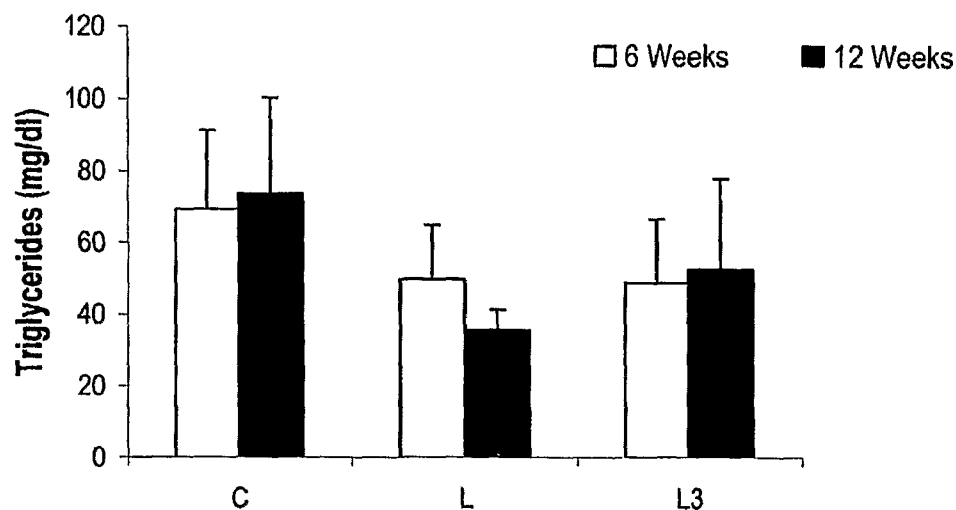
(75) Inventors/Applicants (for US only): **JOUNI, Zeina** [US/US]; Bristol-Myers Squibb Company - Mead Johnson, 2400 West Lloyd Expressway, Evansville, IN 47721 (US). **BRENNAN, J., Thomas** [US/US]; 32 Deerhaven Drive, Ithaca, NY 14850 (US). **ANTHONY, Joshua, C.**[US/US]; Bristol-Myers Squibb Company - Mead Johnson, 2400 West Lloyd Expressway, Evansville, IN 47721 (US). **HSIEH, Andrea, Tseng** [US/US]; 709 Triphammer Road, Apt. 3-2B, Ithaca, NY 14850 (US). **RUMSEY, Steven, C.** [US/US]; 6809 Kolb Drive, Evansville, IN 47712 (US). **DIERSEN-SCHADE, Deborah** [US/US]; Bristol-Myers Squibb Company - Mead Johnson, 2400 West Lloyd Expressway, Evansville, IN 47721 (US).(74) Agents: **SCHMIDT, Richard, D.** et al.; Mead Johnson Nutritionals, 2400 W. Lloyd Expressway, Evansville, IN 47721-00001 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: USE OF DHA AND ARA IN THE PREPARATION OF A COMPOSITION FOR REDUCING TRIGLYCERIDE LEVELS

Influence of DHA and ARA supplementation on serum triglyceride levels in baboon neonates (mean $\pm$ SD).

(57) Abstract: The present invention is directed to a novel method for reducing triglyceride levels in an infant. The method comprises administration of a therapeutically effective amount of DHA and ARA, alone or in combination with one another, to the subject.

WO 2007/100562 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

— *with international search report*

(88) Date of publication of the international search report:

3 April 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/004423

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K31/202 A61P3/06

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 A61P

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, BIOSIS, EMBASE, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2005/063050 A (ABBOTT LAB [US]; AUESTAD NANCY [US]; JACOBS JOAN R [US]) 14 July 2005 (2005-07-14) claims; examples	1-19
Y	WO 2004/012727 A (ABBOTT LAB [US]) 12 February 2004 (2004-02-12) page 20, line 1 - line 26; claims ----- -/--	1-19

☒ 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

30 January 2008

Date of mailing of the international search report

11/02/2008

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

Langer, Astrid

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/004423

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KOLETZKO BERTHOLD ET AL: "Fatty acid profiles, antioxidant status, and growth of preterm infants fed diets without or with long-chain polyunsaturated fatty acids: A randomized clinical trial." EUROPEAN JOURNAL OF NUTRITION, vol. 42, no. 5, October 2003 (2003-10), pages 243-253, XP002466920 ISSN: 1436-6207 abstract; tables -----	1-19
Y	DARREN J HOLUB ET AL: "Omega-3 fatty acids from fish oils and cardiovascular disease" MOLECULAR AND CELLULAR BIOCHEMISTRY, KLUWER ACADEMIC PUBLISHERS, BO, vol. 263, no. 1, 1 August 2004 (2004-08-01), pages 217-225, XP019288614 ISSN: 1573-4919 abstract; table 2 -----	1-19
Y	OWEN CHRISTOPHER G ET AL: "Infant feeding and blood cholesterol: a study in adolescents and a systematic review." PEDIATRICS SEP 2002, vol. 110, no. 3, September 2002 (2002-09), pages 597-608, XP002466921 ISSN: 1098-4275 abstract -----	1-19
X,P	HSIEH ANDREA T ET AL: "Hematological and blood chemistry responses to docosahexaenoic acid (DHA) and arachidonic acid (ARA) supplementation in baboon neonates" FASEB JOURNAL, vol. 20, no. 4, Part 1, March 2006 (2006-03), page A136, XP009094464 & EXPERIMENTAL BIOLOGY 2006 MEETING; SAN FRANCISCO, CA, USA; APRIL 01 05, 2006 ISSN: 0892-6638 the whole document -----	1-19
E	WO 2007/100561 A (SQUIBB BRISTOL MYERS CO [US]; CORNELL RES FOUNDATION INC [US]; MORRIS) 7 September 2007 (2007-09-07) claims -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/004423

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2005063050	A	14-07-2005	NONE	
WO 2004012727	A	12-02-2004	AU 2003256983 A1	23-02-2004
WO 2007100561	A	07-09-2007	NONE	