



(51) International Patent Classification:

A23C 9/123 (2006.01) A23L 1/10 (2006.01)
A23C 9/152 (2006.01) A23L 1/30 (2006.01)
A23C 19/084 (2006.01)

(21) International Application Number:

PCT/US2012/042959

(22) International Filing Date:

18 June 2012 (18.06.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/498,910 20 June 2011 (20.06.2011) US

(71) Applicant (for all designated States except US): **H.J.**

HEINZ COMPANY [US/US]; One PPG Place, Suite
3100, Pittsburgh, PA 15222 (US).

(72) Inventors; and

(75) **Inventors/Applicants (for US only): BUDELLI, Andrea**
[IT/IT]; Largo Camussi, 1, I-21013 Gallarate (IT). **FAS-**
ANO, Francesca Romana [IT/IT]; Via Diego Gianoli 15,
I-23100 Sondrio (IT). **TERZANO, Miryam** [IT/IT]; Via
Giovanni Spadolini 9/a, I-20141 Milan (IT). **BRAMATI,**
Lorenzo [IT/IT]; Via Cimabue, 30, I-20900 Monza (IT).

(74) **Agents: APICELLI, Samuel W.** et al.; Duane Morris
LLP, 30 South 17th Street, Philadelphia, PA 19013 (US).

(81) **Designated States** (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
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, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD,

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(54) Title: PROBIOTIC COMPOSITIONS AND METHODS

Figure 1

	CD 80	CD 86	CD40	MHCII
-				
Control Caco2	70.84±6.5	81.77±6.7	69.97±5.1	81.69±6.4
Caco2 + <i>L. paracasei</i> CBA-L74 ALIVE	49.01±4.9*	68.51±4.4	58.13±6.4	56.27±1.8
Caco2 + <i>L. paracasei</i> CBA-L74 inactivated	54.09±3.5	68.34±2.5	57.96±2.3	61.55±2.4
Control Caco2 + LPS	76.51±2.9	87.56±2.99	73.01±2.2	71.93±2.4
Caco2 + <i>L. paracasei</i> CBA-L74 ALIVE + LPS	49.32±1.7*	58.09±3.3 *	59.34±4.1	52.75±2.1*
Caco2 + <i>L. paracasei</i> CBA-L74 inactivated + LPS	44.64±2.3 *	68.64±1.5 *	63.37±4.1	62.35±2.6

* p<0.05 vs control Caco2 and ° p<0.05 vs control Caco2+LPS

(57) **Abstract:** The present invention features compositions and methods for modulation of the mucosal immune system. The compositions include foods fermented by the probiotic organism, *Lactobacillus paracasei* CBA L74 (International Depository Accession Number LMG P-24778). Alternatively the compositions can include *L. paracasei* CBA L74 and a physiologically acceptable carrier. In some embodiments, the *L. paracasei* CBA L74 can be non-replicating. The compositions can be administered to a subject having or at risk for gastrointestinal disorders related to immaturity of the immune system, infection or disease.



SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,

Published:

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

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

10 May 2013