

Scientific references on *Lactobacillus rhamnosus* GG (ATCC-53103)

710 references

2013 (11)

Argyri AA, Zoumpopoulou G, Karatzas KA, Tsakalidou E, Nychas GJ, Panagou EZ, Tassou CC. Selection of potential probiotic lactic acid bacteria from fermented olives by *in vitro* tests. *Food Microbiol* 2013; 33(2):282-91.

Bull-Otterson L, Feng W, Kirpich I, Wang Y, Qin X, Liu Y, Gobejishvili L, Joshi-Barve S, Ayvaz T, Petrosino J, Kong M, Barker D, McClain C, Barve S. Metagenomic analyses of alcohol induced pathogenic alterations in the intestinal microbiome and the effect of *Lactobacillus rhamnosus* GG treatment. *PLoS One* 2013; epub.

Chen PW, Jheng TT, Shyu CL, Mao FC. Antimicrobial potential for the combination of bovine lactoferrin or its hydrolysate with lactoferrin-resistant probiotics against foodborne pathogens. *J Dairy Sci* 2013; epub.

Dhanani AS, Bagchi T. *Lactobacillus plantarum* CS24.2 prevents *E. coli* adhesion to HT-29 cells and also down-regulates enteropathogen induced TNF- α and IL-8 expression. *Microbiol Immunol* 2013; epub.

Douillard FP, Ribbera A, Järvinen HM, Kant R, Pietilä TE, Randazzo C, Paulin L, Laine PK, Caggia C, von Ossowski I, Reunanen J, Satokari R, Salminen S, Palva A, de Vos WM. Comparative genomic and functional analysis of *Lactobacillus casei* and *Lactobacillus rhamnosus* strains marketed as probiotics. *Appl Environ Microbiol* 2013; epub.

Goyal N, Rishi P, Shukla G. *Lactobacillus rhamnosus* GG antagonizes *Giardia intestinalis* induced oxidative stress and intestinal disaccharidases: an experimental study. *World J Microbiol Biotechnol* 2013; epub.

Kim SW, Park KY, Kim B, Kim E, Hyun CK. *Lactobacillus rhamnosus* GG improves insulin sensitivity and reduces adiposity in high-fat diet-fed mice through enhancement of adiponectin production. *Biochem Biophys Res Commun* 2013; epub.

Nylund L, Satokari R, Nikkilä J, Rajili-Stojanovi M, Kalliomäki M, Isolauri E, Salminen S, de Vos WM. Microarray analysis reveals marked intestinal microbiota aberrancy in infants having eczema compared to healthy children in at-risk for atopic disease. *BMC Microbiol* 2013; epub.

Sybesma W, Molenaar D, van Ijcken W, Venema K, Kort R. Genome instability in *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2013; epub.

Tareb R, Bernardeau M, Gueguen M, Vernoux JP. *In vitro* characterization of aggregation and adhesion properties of viable and heat-killed forms of two probiotic *Lactobacillus* strains and interaction with foodborne zoonotic bacteria, especially *Campylobacter jejuni*. *J Med Microbiol* 2013; epub.

Verma A, Shukla G. Probiotics *Lactobacillus rhamnosus* GG, *Lactobacillus acidophilus* suppresses DMH-induced procarcinogenic fecal enzymes and preneoplastic aberrant crypt foci in early colon carcinogenesis in sprague dawley rats. *Nutr Cancer* 2013; 65(1):84-91.

2012 (75)

Ambalam P, Kondepudi KK, Nilsson I, Wadström T, Ljungh A. Bile stimulates cell surface hydrophobicity, Congo red binding and biofilm formation of *Lactobacillus* strains. *FEMS Microbiol Lett* 2012; epub.

Baldassarre ME, Cappiello A, Laforgia N, Vanderhoof J. Allergic colitis in monozygotic preterm twins. *Immunopharmacol Immunotoxicol* 2012; epub.

Barnes JL, Hartmann B, Holst JJ, Tappenden KA. Intestinal adaptation is stimulated by partial enteral nutrition supplemented with the prebiotic short-chain fructooligosaccharide in a neonatal intestinal failure piglet model. *JPEN J Parenter Enteral Nutr* 2012; epub.

Berni Canani R, Nocerino R, Terrin G, Coruzzo A, Cosenza L, Leone L, Troncone R. Effect of *Lactobacillus* GG on tolerance acquisition in infants with cow's milk allergy: A randomized trial. *J Allergy Clin Immunol* 2012; 129 (2): 580-582.

Burgain J, Gaiani C, Francius G, Revol-Junelles AM, Cailliez-Grimal C, Lebeer S, Tytgat HL, Vanderleyden J, Scher J. *In vitro* interactions between probiotic bacteria and milk proteins probed by atomic force microscopy. *Colloids Surf B Biointerfaces* 2012; epub.

Choi HJ, Shin MS, Lee SM, Lee WK. Immunomodulatory property of *Enterococcus faecium* JWS 833 isolated from duck intestinal tract and the suppression against *Listeria monocytogenes* infection. *Microbiol Immunol* 2012; epub.

Chrzanowska-Liszewska D, Seliga-Siwecka J, Kornacka MK. The effect of *Lactobacillus rhamnosus* GG supplemented enteral feeding on the microbiotic flora of preterm infants-double blinded randomized control trial. *Early Hum Dev* 2012; 88 (1): 57-60.

Claes IJ, Schoofs G, Regulski K, Courtin P, Chapot-Chartier MP, Rolain T, Hols P, von Ossowski I, Reunanen J, de Vos WM, Palva A, Vanderleyden J, De Keersmaecker SC, Lebeer S. Genetic and biochemical characterization of the cell wall hydrolase activity of the major secreted protein of *Lactobacillus rhamnosus* GG. *PLoS One* 2012 ; 7 (2): e31588.

Claes IJ, Segers ME, Verhoeven TL, Dusselier M, Sels BF, De Keersmaecker SC, Vanderleyden J, Lebeer S. Lipoteichoic acid is an important microbe-associated molecular pattern of *Lactobacillus rhamnosus* GG. *Microb Cell Fact* 2012; Dec 15;11(1):161.

Deepika G, Karunakaran E, Hurley CR, Biggs CA, Charalampopoulos D. Influence of fermentation conditions on the surface properties and adhesion of *Lactobacillus rhamnosus* GG. *Microb Cell Fact*. 2012; 11(1):116.

Doherty SB, Auty MA, Stanton C, Ross RP, Fitzgerald GF, Brodkorp A. Application of whey protein micro-bead coatings for enhanced strength and probiotic protection during fruit juice storage and gastric incubation. *J Microencapsul* 2012; epub.

Donkor ON, Ravikumar M, Proudfoot O, Day SL, Apostolopoulos V, Paukovics G, Vasiljevic T, Nutt SL, Gill H. Cytokine profile and induction of T helper type 17 and regulatory T cells by human peripheral mononuclear cells after microbial exposure. *Clin Exp Immunol* 2012; 167 (2): 282-95.

Dongarrà ML, Rizzello V, Muccio L, Fries W, Cascio A, Bonaccorsi I, Ferlazzo G. Mucosal immunology and probiotics. *Curr Allergy Asthma Rep* 2012; Oct 7; epub.

Endo A, Aakko J, Salminen S. Evaluation of strain-specific primers for identification of *Lactobacillus rhamnosus* GG. *FEMS Microbiol Lett* 2012; Sep 25; epub.

Escamilla J, Lane MA, Maitin V. Cell-free supernatants from probiotic *Lactobacillus casei* and *Lactobacillus rhamnosus* GG decrease colon cancer cell invasion *in vitro*. *Nutr Cancer* 2012; epub.

Escobar MC, Van Tassell ML, Martínez-Bustos F, Singh M, Castaño-Tostado E, Amaya-Llano SL, Miller MJ. Characterization of a Panela cheese with added probiotics and fava bean starch. *J Dairy Sci* 2012; 95(6):2779-87.

Finamore A, Roselli M, Britti MS, Merendino N, Mengheri E. *Lactobacillus rhamnosus* GG and *Bifidobacterium animalis* MB5 Induce Intestinal but Not Systemic Antigen-Specific Hyporesponsiveness in Ovalbumin-Immunized Rats. *J Nutr* 2012; epub.

Foolad N, Brezinski EA, Chase EP, Armstrong AW. Effect of nutrient supplementation on atopic dermatitis in children: A systematic review of probiotics, prebiotics, formula, and fatty acids. *Arch Dermatol* 2012; Dec 17:1-6.

Ganan M, Martinez-Rodriguez AJ, Carrascosa AV, Vesterlund S, Salminen S, Satokari R. Interaction of *Campylobacter* spp. and human probiotics in chicken intestinal mucus. *Zoonoses Public Health* 2012; epub.

Ghadimi D, Helwig U, Schrezenmeir J, Heller KJ, de Vrese M. Epigenetic imprinting by commensal probiotics inhibits the IL-23/IL-17 axis in an *in vitro* model of the intestinal mucosal immune system. *J Leukoc Biol* 2012; epub.

Giahi L, Aumueller E, Elmadfa I, Haslberger AG. Regulation of TLR4, p38 MAPkinase, IκB and miRNAs by inactivated strains of lactobacilli in human dendritic cells. *Benef Microbes* 2012; epub.

Glavina D, Gorseta K, Skrinjarić I, Vranić DN, Mehulić K, Kozul K. Effect of LGG yoghurt on *Streptococcus mutans* and *Lactobacillus* spp. salivary counts in children. *Coll Antropol* 2012; 36 (1): 129-32.

Goyal N, Shukla G. Probiotic *Lactobacillus rhamnosus* GG modulates the mucosal immune response in *Giardia intestinalis*-infected BALB/c mice. *Dig Dis Sci* 2012; epub.

Granata M, Brandi G, Borsari A, Gasbarri R, Gioia DD. Synbiotic yogurt consumption by healthy adults and the elderly: the fate of bifidobacteria and LGG probiotic strain. *Int J Food Sci Nutr* 2012; epub.

He X, Zou Y, Cho Y, Ahn J. Effects of bile salt deconjugation by probiotic strains on the survival of antibiotic-resistant foodborne pathogens under simulated gastric conditions. *J Food Prot* 2012; 75 (6): 1090-8.

Honda K, Moto M, Uchida N, He F, Hashizume N. Anti-diabetic effects of lactic acid bacteria in normal and type 2 diabetic mice. *J Clin Biochem Nutr* 2012; Sep;51(2):96-101.

Ji YS, Kim HN, Park HJ, Lee JE, Yeo SY, Yang JS, Park SY, Yoon HS, Cho GS, Franz CM, Bomba A, Shin HK, Holzapfel WH. Modulation of the murine microbiome with a concomitant anti-obesity effect by *Lactobacillus rhamnosus* GG and *Lactobacillus sakei* NR28. *Benef Microbes* 2012; 3 (1):13-22.

Johansson MA, Saghaian-Hedengren S, Haileselassie Y, Roos S, Troye-Blomberg M, Nilsson C, Sverremark-Ekström E. Early-life gut bacteria associate with IL-4-, IL-10- and IFN- γ production at two years of age. *PLoS One* 2012; epub.

Jung JH, Lee MY, Chang HC. Evaluation of the probiotic potential of *Bacillus polyfermenticus* CJ6 Isolated from Meju, a Korean Soybean Fermentation Starter. *J Microbiol Biotechnol* 2012; 22(11):1510-7.

Karlsson M, Scherbak N, Reid G, Jass J. *Lactobacillus rhamnosus* GR-1 enhances NF-kappaB activation in *Escherichia coli*-stimulated urinary bladder cells through TLR4. *BMC Microbiol* 2012; epub.

Kainulainen V, Loimaranta V, Pekkala A, Edelman S, Antikainen J, Kylväjä R, Laaksonen M, Laakkonen L, Finne J, Korhonen TK. Glutamine synthetase and glucose-6-phosphate isomerase are adhesive moonlighting proteins of *Lactobacillus crispatus* released by cathelicidin LL-37. *J Bacteriol* 2012; epub.

Kim HJ, Huh D, Hamilton G, Ingber DE. Human gut-on-a-chip inhabited by microbial flora that experiences intestinal peristalsis-like motions and flow. *Lab Chip* 2012; epub.

Klu YA, Williams JH, Phillips RD, Chen J. Survival of *Lactobacillus rhamnosus* GG as influenced by storage conditions and product matrixes. *J Food Sci* 2012; epub.

Kumar M, Rakesh S, Nagpal R, Hemalatha R, Ramakrishna A, Sudarshan V, Ramagoni R, Shujauddeen M, Verma V, Kumar A, Tiwari A, Singh B, Kumar R. Probiotic *Lactobacillus rhamnosus* GG and Aloe vera gel improve lipid profiles in hypercholesterolemic rats. *Nutrition* 2012; epub.

Kumpu M, Kekkonen RA, Kautiainen H, Järvenpää S, Kristo A, Huovinen P, Pitkäranta A, Korpela R, Hatakka K. Milk containing probiotic *Lactobacillus rhamnosus* GG and respiratory illness in children: a randomized, double-blind, placebo controlled trial. *Eur J Clin Nutr* 2012; 0: 000-000.

Kumpu M, Swanljung E, Tynkkynen S, Hatakka K, Kekkonen RA, Järvenpää S, Korpela R, Pitkäranta A. Recovery of probiotic *Lactobacillus rhamnosus* GG in tonsil tissue after oral administration: randomised, placebo-controlled, double-blind clinical trial. *Br J Nutr* 2012; epub.

Lebeer S, Claes IJ, Balog CI, Schoofs G, Verhoeven TL, Nys K, von Ossowski I, de Vos WM, Tytgat HL, Agostinis P, Palva A, Van Damme EJ, Deelder AM, De Keersmaecker SC, Wuhler M, Vanderleyden J. The major secreted protein Msp1/p75 is O-glycosylated in *Lactobacillus rhamnosus* GG. *Microb Cell Fact* 2012; epub.

Lee SK, Yang KM, Cheon JH, Kim TI, Kim WH. Anti-inflammatory mechanism of *Lactobacillus rhamnosus* GG in lipopolysaccharide- stimulated HT-29 cell. *Korean J Gastroenterol.* 2012; 60 (2): 86-93. Korean.

Marsella R, Santoro D, Ahrens K. Early exposure to probiotics in a canine model of atopic dermatitis has long-term clinical and immunological effects. *Vet Immunol Immunopathol.* 2012; epub.

Miettinen M, Pietilä TE, Kekkonen RA, Kankainen M, Latvala S, Pirhonen J, Osterlund P, Korpela R, Julkunen I. Nonpathogenic *Lactobacillus rhamnosus* activates the inflammasome and antiviral responses in human macrophages. *Gut Microb* 2012; 3 (6).

Mirpuri J, Sotnikov I, Myers L, Denning TL, Yarovsky F, Parkos CA, Denning PW, Louis NA. *Lactobacillus rhamnosus* (LGG) regulates IL-10 signaling in the developing murine colon through upregulation of the IL-10R2 receptor subunit. *PLoS One* 2012; epub.

Miyazawa K, He F, Yoda K, Hiramatsu M. Potent effects and mechanisms for modification of the crosstalk between macrophages and adipocytes by lactobacilli. *Microbiol Immunol* 2012; Sep 27; epub.

Muñoz-Provencio D, Rodríguez-Díaz J, Collado MC, Langella P, Bermúdez-Humarán LG, Monedero V. Functional analysis of the *Lactobacillus casei* BL23 sortases. *Appl Environ Microbiol* 2012; Oct 5; epub.

Muraro A, Hoekstra MO, Meijer Y, Lifschitz C, Wampler JL, Harris C, Scalabrin DM. Extensively hydrolysed casein formula supplemented with *Lactobacillus rhamnosus* GG maintains hypoallergenic status: randomised double-blind, placebo-controlled crossover trial. *BMJ Open* 2012; 2 (2): e000637.

Nikolic M, López P, Strahinic I, Suárez A, Kojic M, Fernández-García M, Topisirovic L, Golic N, Ruas-Madiedo P. Characterisation of the exopolysaccharide (EPS)-producing *Lactobacillus paraplantarum* BGCG11 and its non-EPS producing derivative strains as potential probiotics. *Int J Food Microbiol* 2012; epub.

Nixon AF, Cunningham SJ, Cohen HW, Crain EF. The effect of *Lactobacillus* GG on acute diarrheal illness in the pediatric emergency department. *Pediatr Emerg Care* 2012; 28 (10): 1048-51.

Oksaharju A, Kooistra T, Kleemann R, van Duyvenvoorde W, Miettinen M, Lappalainen J, Lindstedt KA, Kovanen PT, Korpela R, Kekkonen RA. Effects of probiotic *Lactobacillus rhamnosus* GG and *Propionibacterium freudenreichii* ssp. *shermanii* JS supplementation on intestinal and systemic markers of inflammation in ApoE*3Leiden mice consuming a high-fat diet. *Br J Nutr*; 2012 epub.

Orlando A, Refolo MG, Messa C, Amati L, Lavermicocca P, Guerra V, Russo F. Antiproliferative and proapoptotic effects of viable or heat-killed *Lactobacillus paracasei* IMPC2.1 and *Lactobacillus rhamnosus* GG in HGC-27 gastric and DLD-1 colon cell lines. *Nutr Cancer* 2012; 64 (7):1103-11.

Ou CY, Kuo HC, Wang L, Hsu TY, Chuang H, Liu CA, Chang JC, Yu HR, Yang KD. Prenatal and postnatal probiotics reduces maternal but not childhood allergic diseases: a randomized, double-blind, placebo-controlled trial. *Clin Exp Allergy* 2012; 42 (9): 1386-96.

Piano MD, Carmagnola S, Ballarè M, Balzarini M, Montino F, Pagliarulo M, Anderloni A, Orsello M, Tari R, Sforza F, Mogna L, Mogna G. Comparison of the kinetics of intestinal colonization by associating 5 probiotic bacteria assumed either in a microencapsulated or in a traditional, uncoated form. *J Clin Gastroenterol* 2012; 46 Suppl:S85-92.

Pieścik-Lech M, Urbańska M, Szajewska H. *Lactobacillus* GG (LGG) and smectite versus LGG alone for acute gastroenteritis: a double-blind, randomized controlled trial. *Eur J Pediatr* 2012; epub.

Pieścik-Lech M, Shamir R, Guarino A, Szajewska H. Review article: the management of acute gastroenteritis in children. *Aliment Pharmacol Ther* 2012; epub.

Pitino I, Randazzo CL, Cross KL, Parker ML, Bisignano C, Wickham MS, Mandalari G, Caggia C. Survival of *Lactobacillus rhamnosus* strains inoculated in cheese matrix during simulated human digestion. *Food Microbiol* 2012; 31 (1): 57-63.

Prajapati JB, Khedkar CD, Chitra J, Suja S, Mishra V, Sreeja V, Patel RK, Ahir VB, Bhatt VD, Sajani MR, Jakhesara SJ, Koringa PG, Joshi CG. Whole-genome shotgun sequencing of *Lactobacillus rhamnosus* MTCC 5462, a strain with probiotic potential. *J Bacteriol* 2012; 194 (5): 1264-5.

Prisciandaro LD, Geier MS, Chua AE, Butler RN, Cummins AG, Sander GR, Howarth GS. Probiotic factors partially prevent changes to caspases 3 and 7 activation and transepithelial electrical resistance in a model of 5-fluorouracil-induced epithelial cell damage. *Support Care Cancer* 2012; epub.

Rautava S, Collado MC, Salminen S, Isolauri E. Probiotics modulate host-microbe interaction in the placenta and fetal gut: a randomized, double-blind, placebo-controlled trial. *Neonatology* 2012; 102 (3):178-184.

Regulski K, Courtin P, Meyrand M, Claes IJ, Lebeer S, Vanderleyden J, Hols P, Guillot A, Chapot-Chartier MP. Analysis of the peptidoglycan hydrolase complement of *Lactobacillus casei* and characterization of the major γ -D-glutamyl-L-lysyl-endopeptidase. *PLoS One* 2012; 7 (2): e32301.

Reunanen J, von Ossowski I, Hendrickx AP, Palva A, de Vos WM. Characterization of the SpaCBA pilus fibers in the probiotic *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2012; epub.

Shi T, Nishiyama K, Nakamata K, Aryantini NP, Mikumo D, Oda Y, Yamamoto Y, Mukai T, Sujaya IN, Urashima T, Fukuda K. Isolation of potential probiotic *Lactobacillus rhamnosus* strains from traditional fermented mare milk produced in Sumbawa island of Indonesia. *Biosci Biotechnol Biochem* 2012; Oct 7; epub.

Smith TJ, Rigassio-Radler D, Denmark R, Haley T, Touger-Decker R. Effect of *Lactobacillus rhamnosus* LGG® and *Bifidobacterium animalis* ssp. *lactis* BB-12® on health-related quality of life in college students affected by upper respiratory infections. *Br J Nutr* 2012; epub.

Sohail A, Turner MS, Prabawati EK, Coombes AG, Bhandari B. Evaluation of *Lactobacillus rhamnosus* GG and *Lactobacillus acidophilus* NCFM encapsulated using a novel impinging aerosol method in fruit food products. *Int J Food Microbiol* 2012; epub.

Stamatova I, Kari K, Hervonen L, Meurman JH. Dietary sugar utilisation by putative oral probiotics. *Benef Microbes* 2012 Sep 1;3(3):221-7.

Sun J, Hu XL, Le GW, Shi YH. Inhibition of Fe-induced colon oxidative stress by lactobacilli in mice. *World J Microbiol Biotechnol* 2012; epub.

Trevisi P, Casini L, Coloretto F, Mazzoni M, Merialdi G, Bosi P. Dietary addition of *Lactobacillus rhamnosus* GG impairs the health of Escherichia coli F4-challenged piglets. *Animal* 2011; 5 (9): 1354-1360.

Tytgat HL, Sánchez-Rodríguez A, Schoofs G, Verhoeven TL, De Keersmaecker SC, Marchal K, Vanderleyden J, Lebeer S. A combined approach to study the protein glycosylation potential of *Lactobacillus rhamnosus* GG (LGG). *Commun Agric Appl Biol Sci* 2012;77(1):15-9.

Ventola H, Lehtoranta L, Madetoja M, Simonen-Tikka ML, Maunula L, Roivainen M, Korpela R, Holma R. Effects of the viability of *Lactobacillus rhamnosus* GG on rotavirus infection in neonatal rats. *World J Gastroenterol* 2012; 18 (41):5925-31.

Vesterlund S, Salminen K, Salminen S. Water activity in dry foods containing live probiotic bacteria should be carefully considered: A case study with *Lactobacillus rhamnosus* GG in flaxseed. *Int J Food Microbiol* 2012; epub.

Välimäki IA, Vuorimaa T, Ahotupa M, Kekkonen R, Korpela R, Vasankari T. Decreased training volume and increased carbohydrate intake increases oxidized LDL levels. *Int J Sports Med* 2012; epub.

Wang Y, Liu Y, Sidhu A, Ma Z, McClain CJ, Feng W. *Lactobacillus rhamnosus* GG culture supernatant ameliorates acute alcohol-induced intestinal permeability and liver injury. *Am J Physiol Gastrointest Liver Physiol* 2012; epub.

Waśko A, Kieliszek M, Targoński Z. Purification and characterization of a proteinase from a probiotic *Lactobacillus rhamnosus* OXY. *Prep Biochem Biotechnol* 2012; 42 (5): 476-88.

Weill FS, Cela EM, Paz ML, Ferrari A, Leoni J, González Maglio DH. 1. Lipoteichoic acid from *Lactobacillus rhamnosus* GG as an oral photoprotective agent against UV-induced carcinogenesis. *Br J Nutr* 2012; Jul 6: 1-10; epub.

West N, Pyne D, Cripps A, Christophersen C, Conlon MA, Fricker P. Gut Balance, a synbiotic supplement, increases fecal *Lactobacillus paracasei* but has little effect on immunity in healthy physically active individuals. *Gut Microbes* 2012; epub

Yan F, Polk DB. Characterization of a probiotic-derived soluble protein which reveals a mechanism of preventive and treatment effects of probiotics on intestinal inflammatory diseases. *Gut Microbes* 2012; epub.

Yang B, Chen H, Song Y, Chen YQ, Zhang H, Chen W. Myosin-cross-reactive antigens from four different lactic acid bacteria are fatty acid hydratases. *Biotechnol Lett* 2012; epub.

You J, Yaqoob P. Evidence of immunomodulatory effects of a novel probiotic, *Bifidobacterium longum* bv. *infantis* CCUG 52486. *FEMS Immunol Med Microbiol* 2012; epub.

2011 (62)

Abu-Salih M, Dickinson CJ. *Lactobacillus* GG may improve frequency and severity of pain in children with functional abdominal pain. *J Pediatr* 2011; 159 (1): 165-6.

Alegre I, Viñas I, Usall J, Anguera M, Abadias M. Microbiological and physicochemical quality of fresh-cut apple enriched with the probiotic strain *Lactobacillus rhamnosus* GG. *Food Microbiol* 2011; 28 (1): 59-66.

Al-Hosni M, Duenas M, Hawk M, Stewart LA, Borghese RA, Cahoon M, Atwood L, Howard D, Ferrelli K, Soll R. Probiotics-supplemented feeding in extremely low-birth-weight infants. *J Perinatol* 2011; epub.

Almaas H, Eriksen E, Sekse C, Comi I, Flengsrud R, Holm H, Jensen E, Jacobsen M, Langsrud T, Vegarud GE. Antibacterial peptides derived from caprine whey proteins, by digestion with human gastrointestinal juice. *Br J Nutr* 2011; 4: 1-10.

Aminabadi NA, Erfanparast L, Ebrahimi A, Oskouei SG. Effect of chlorhexidine pretreatment on the stability of salivary lactobacilli probiotic in six- to twelve-year-old children: A randomized controlled trial. *Caries Res* 2011; 45 (2): 148-154.

Ayeni FA, Sánchez B, Adeniyi BA, de Los Reyes-Gavilán CG, Margolles A, Ruas-Madiedo P. Evaluation of the functional potential of *Weissella* and *Lactobacillus* isolates obtained from Nigerian traditional fermented foods and cow's intestine. *Int J Food Microbiol* 2011; epub.

Chrzanowska-Liszewska D, Seliga-Siwecka J, Kornacka MK. The effect of *Lactobacillus rhamnosus* GG supplemented enteral feeding on the microbiotic flora of preterm infants-double blinded randomized control trial. *Early Hum Dev* 2011; epub

Ciorba MA, Riehl TE, Rao MS, Moon C, Ee X, Nava GM, Walker MR, Marinshaw JM, Stappenbeck TS, Stenson WF. *Lactobacillus* probiotic protects intestinal epithelium from radiation injury in a TLR-2/cyclo-oxygenase-2-dependent manner. *Gut* 2011; epub .

Davidson LE, Fiorino AM, Snyderman DR, Hibberd PL. *Lactobacillus* GG as an immune adjuvant for live-attenuated influenza vaccine in healthy adults: a randomized double-blind placebo-controlled trial. *Eur J Clin Nutr* 2011; epub.

Deepika G, Rastall R, Charalampopoulos D. Effect of food models and low temperature storage on the adhesion of *Lactobacillus rhamnosus* GG to Caco-2 cells. *J Agric Food Chem* 2011; epub.

Dolecka J, Urbanik-Sypniewska T, Skrzydło-Radomańska B, Parada-Turska J. Effect of kynurenic acid on the viability of probiotics *in vitro*. *Pharmacol Rep* 2011; 63 (2): 548-51.

Dong H, Rowland I, Yaqoob P. Comparative effects of six probiotic strains on immune function *in vitro*. *Br J Nutr* 2011; epub

Drago L, Rodighiero V, Mattina R, Toscano M, DE Vecchi E. *In vitro* selection of antibiotic resistance in the probiotic strain *Lactobacillus rhamnosus* GG ATCC 53103. *J Chemother* 2011; 23 (4): 211-5.

Edwards LA, Lucas M, Edwards EA, Torrente F, Heuschkel RB, Klein NJ, Murch SH, Bajaj-Elliott M, Phillips AD. Aberrant response to commensal *Bacteroides thetaiotaomicron* in Crohn's disease: An *ex vivo* human organ culture study. *Inflamm Bowel Dis* 2011; 17 (5): 1201-8.

Fazeli MR, Bahmani S, Jamalifar H, Samadi N. Effect of probiotication on antioxidant and antibacterial activities of pomegranate juices from sour and sweet cultivars. *Nat Prod Res* 2011; 25 (3): 288-97.

Ferrie S, Daley M. *Lactobacillus* GG as treatment for diarrhea during enteral feeding in critical illness: randomized controlled trial. *JPEN J Parenter Enteral Nutr* 2011; 35 (1): 43-9.

Frech TM, Khanna D, Maranian P, Frech EJ, Sawitzke AD, Murtaugh MA. Probiotics for the treatment of systemic sclerosis-associated gastrointestinal bloating/ distention. *Clin Exp Rheumatol* 2011; 29 2 (S65): S22-5.

Goyal N, Tiwari RP, Shukla G. *Lactobacillus rhamnosus* GG as an effective probiotic for murine giardiasis. *Interdiscip Perspect Infect Dis* 2011; epub.

Hoppu U, Isolauri E, Laakso P, Matomäki J, Laitinen K. Probiotics and dietary counselling targeting maternal dietary fat intake modifies breast milk fatty acids and cytokines. *Eur J Nutr* 2011; epub.

Ismail IH, Oppedisano F, Joseph SJ, Boyle RJ, Robins-Browne RM, Tang ML. Prenatal administration of *Lactobacillus rhamnosus* has no effect on the diversity of the early infant gut microbiota. *Pediatr Allergy Immunol* 2011; epub

Jiang H, Przybyszewski J, Mitra D, Becker C, Brehm-Stecher B, Tentinger A, Macdonald RS. Soy protein diet, but not *Lactobacillus rhamnosus* GG, decreases mucin-1, trefoil factor-3, and tumor necrosis factor- α in colon of dextran sodium sulfate-treated C57BL/6 mice. *J Nutr* 2011; 141 (7): 1239-46.

Jiménez-Pranteda ML, Poncelet D, Náder-Macías ME, Arcos A, Aguilera M, Monteoliva-Sánchez M, Ramos-Cormenzana A. Stability of lactobacilli encapsulated in various microbial polymers. *J Biosci Bioeng* 2011; epub

Kandasamy M, Bay BH, Lee YK, Mahendran R. Lactobacilli secreting a tumor antigen and IL15 activates neutrophils and dendritic cells and generates cytotoxic T lymphocytes against cancer cells. *Cell Immunol* 2011; epub.

Kandasamy M, Jayasurya AS, Moomhala S, Bay BH, Lee YK, Mahendran R. *Lactobacillus rhamnosus* GG secreting an antigen and Interleukin-2 translocates across the gastrointestinal tract and induces an antigen specific immune response. *Microbiol Immunol* 2011; 55 (10): 704-14.

Koponen J, Laakso K, Koskeniemi K, Kankainen M, Savijoki K, Nyman TA, de Vos WM, Tynkkynen S, Kalkkinen N, Varmanen P. Effect of acid stress on protein expression and phosphorylation in *Lactobacillus rhamnosus* GG. *J Proteomics* 2011; epub

Kubota A, He F, Kawase M, Harata G, Hiramatsu M, Iino H. Diversity of intestinal bifidobacteria in patients with Japanese cedar pollinosis and possible influence of probiotic intervention. *Curr Microbiol* 2011; 62 (1): 71-7.

Kumar M, Verma V, Nagpal R, Kumar A, Behare PV, Singh B, Aggarwal PK. Anticarcinogenic effect of probiotic fermented milk and chlorophyllin on aflatoxin-B1-induced liver carcinogenesis in rats. *Br J Nutr* 2011; 5: 1-11.

Laakso K, Koskeniemi K, Koponen J, Kankainen M, Surakka A, Salusjärvi T, Auvinen P, Savijoki K, Nyman TA, Kalkkinen N, Tynkkynen S, Varmanen P. Growth phase-associated changes in the proteome and transcriptome of *Lactobacillus rhamnosus* GG in industrial-type whey medium. *Microb Biotechnol* 2011; epub.

Latvala S, Miettinen M, Kekkonen R, Korpela R, Julkunen I. *Lactobacillus rhamnosus* GG and *Streptococcus thermophilus* induce SOCS3 gene expression directly and indirectly via IL-10 in human primary macrophages. *Clin Exp Immunol* 2011; epub.

Lee KW, Park JY, Jeong HR, Her HJ, Han NS, Kim JH. Probiotic properties of *Weissella* strains isolated from human faeces. *Anaerobe* 2011; epub.

Lebeer S, Claes I, Tytgat HL, Verhoeven TL, Marien E, von Ossowski I, Reunanen J, Palva A, de Vos WM, De Keersmaecker SC, Vanderleyden J. Functional analysis of the pili of *Lactobacillus rhamnosus* GG in relation to adhesion and immunomodulatory interactions with intestinal epithelial cells. *Appl Environ Microbiol*. 2011; epub.

Linares D, Michaud P, Delort AM, Traïkia M, Warrand J. Catabolism of L-ascorbate by *Lactobacillus rhamnosus* GG. *J Agric Food Chem* 2011; epub.

Manzoni P, Lista G, Gallo E, Marangione P, Priolo C, Fontana P, Guardione R, Farina D. Routine *Lactobacillus rhamnosus* GG administration in VLBW infants: A retrospective, 6-year cohort study. *Early Hum Dev* 2011; epub.

Manzoni P, Stolfi I, Messner H, Cattani S, Laforgia N, Romeo MG, Bollani L, Rinaldi M, Gallo E, Quercia M, Maule M, Mostert M, Decembrino L, Magaldi R, Mosca F, Vagnarelli F, Memo L, Betta PM, Stronati M, Farina D; on behalf of the Italian Task Force for the Study and Prevention of Neonatal Fungal Infections—the Italian Society of Neonatology. Bovine lactoferrin prevents invasive fungal infections in very low birth weight infants: a randomized controlled trial. *Pediatrics* 2011; epub.

- Marttinen A, Haukioja A, Karjalainen S, Nylund L, Satokari R, Ohman C, Holgerson P, Twetman S, Söderling E. Short-term consumption of probiotic lactobacilli has no effect on acid production of supragingival plaque. *Clin Oral Investig* 2011; epub.
- Meadows-Oliver M. Administration of *Lactobacillus* GG to hospitalized children reduces the risk of gastrointestinal and respiratory tract infections. *Evid Based Nurs* 2011; 14 (1): 8-9.
- Naughton V, McSorley E, Naughton PJ. Changes in calcium status in aged rats fed *Lactobacillus* GG and *Bifidobacterium lactis* and oligofructose-enriched inulin. *Appl Physiol Nutr Metab* 2011; 36 (1): 161-5.
- Nermes M, Kantele JM, Atosuo TJ, Salminen S, Isolauri E. Interaction of orally administered *Lactobacillus rhamnosus* GG with skin and gut microbiota and humoral immunity in infants with atopic dermatitis. *Clin Exp Allergy* 2011; 41 (3): 370-7.
- Oksaharju A, Kankainen M, Kekkonen RA, Lindstedt KA, Kovanen PT, Korpela R, Miettinen M. Probiotic *Lactobacillus rhamnosus* downregulate FCER1 and HRH4 expression in human mast cells. *World J Gastroenterol* 2011; 17 (6): 750-59.
- Patel RM, Myers LS, Kurundkar AR, Maheshwari A, Nusrat A, Lin PW. Probiotic Bacteria Induce Maturation of Intestinal Claudin 3 Expression and Barrier Function. *Am J Pathol* 2011; epub.
- Pham LC, Hoogenkamp MA, Exterkate RA, Terefework Z, de Soet JJ, Ten Cate JM, et al. Effects of *Lactobacillus rhamnosus* GG on saliva-derived microcosms. *Arch Oral Biol* 2011; 56 (2): 136-47.
- Pirarat N, Pinpimai K, Endo M, Katagiri T, Ponpornpisit A, Chansue N, Maita M. Modulation of intestinal morphology and immunity in Nile tilapia (*Oreochromis niloticus*) by *Lactobacillus rhamnosus* GG. *Res Vet Sci* 2011; epub.
- Romeo MG, Romeo DM, Trovato L, Oliveri S, Palermo F, Cota F, Betta P. Role of probiotics in the prevention of the enteric colonization by *Candida* in preterm newborns: incidence of late-onset sepsis and neurological outcome. *J Perinatol* 2011; 31 (1): 63-9.
- Rose MA, Schubert R, Schulze J, Zielen S. Follow-up of probiotic *Lactobacillus* GG effects on allergic sensitization and asthma in infants at risk. *Clin Exp Allergy* 2011; 41(12):1819-21
- Rose MA. *Lactobacillus rhamnosus* GG reduces frequency and severity of abdominal pain compared with placebo in children with irritable bowel syndrome. *Evid Based Med* 2011; 16 (5) :141-2.
- Savijoki K, Lietzén N, Kankainen M, Alatossava T, Koskenniemi K, Varmanen P, Nyman TA. Comparative proteome cataloging of *Lactobacillus rhamnosus* strains GG and Lc705. *J Proteome Res* 2011; epub.
- Scharl M, Geisel S, Vavricka SR, Rogler G. Dying in yoghurt: the number of living bacteria in probiotic yoghurt decreases under exposure to room temperature. *Digestion* 2011; 83 (1-2): 13-7.
- Stein K, Borowicki A, Scharlau D, Schettler A, Scheu K, Obst U, Gleis M. Effects of synbiotic fermentation products on primary chemoprevention in human colon cells. *J Nutr Biochem* 2011; epub.
- Szachta P, Ignyś I, Cichy W. An evaluation of the ability of the probiotic strain *Lactobacillus rhamnosus* GG to eliminate the gastrointestinal carrier state of vancomycin-resistant enterococci in colonized children. *J Clin Gastroenterol* 2011; epub.

Söderling EM, Marttinen AM, Haukioja AL. Probiotic lactobacilli interfere with *Streptococcus mutans* biofilm formation *in vitro*. *Curr Microbiol* 2011; 62 (2): 618-22.

Thang CL, Baurhoo B, Boye JI, Simpson BK, Zhao X. Effects of *Lactobacillus rhamnosus* GG supplementation on cow's milk allergy in a mouse model. *Allergy Asthma Clin Immunol*. 2011; epub

Todorov SD, Furtado DN, Saad SM, Tome E, Franco BD. Potential beneficial properties of bacteriocin-producing lactic acid bacteria isolated from smoked salmon. *J Appl Microbiol* 2011; epub.

Tripathi P, Dupres V, Beaussart A, Lebeer S, Claes IJ, Vanderleyden J, Dufrêne YF. Deciphering the Nanometer-Scale Organization and Assembly of *Lactobacillus rhamnosus* GG Pili Using Atomic Force Microscopy. *Langmuir*. 2011; epub.

Vajro P, Mandato C, Licenziati M, Franzese A, Vitale DF, Lenta S, Caropreso M, Vallone G, Meli R. Effects of *Lactobacillus rhamnosus* strain GG in pediatric obesity-related liver disease: a controlled short-term pilot study. *J Pediatr Gastroenterol Nutr* 2011; 52(6):740-3.

von Ossowski I, Satokari R, Reunanen J, Lebeer S, De Keersmaecker SC, Vanderleyden J, de Vos WM, Palva A. Functional characterization of a mucus-specific LPXTG surface adhesin from probiotic *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2011; epub.

Van den Abbeele P, Roos S, Eeckhaut V, Mackenzie DA, Derde M, Verstraete W, Marzorati M, Possemiers S, Vanhoecke B, Van Immerseel F, Van de Wiele T. Incorporating a mucosal environment in a dynamic gut model results in a more representative colonization by lactobacilli. *Microb Biotechnol* 2011; epub.

Wang Y, Kirpich I, Liu Y, Ma Z, Barve S, McClain CJ, Feng W. *Lactobacillus rhamnosus* GG treatment potentiates intestinal hypoxia-inducible factor, promotes intestinal integrity and ameliorates alcohol-induced liver injury. *Am J Pathol* 2011; 179 (6): 2866-75.

Wentworth CC, Alam A, Jones RM, Nusrat A, Neish AS. Enteric commensal bacteria induce ERK pathway signaling via formyl peptide receptor (FPR)-dependent redox modulation of dual specific phosphatase 3 (DUSP3). *J Biol Chem* 2011; epub.

Yan F, Cao H, Cover TL, Washington MK, Shi Y, Liu L, Chaturvedi R, Peek RM Jr, Wilson KT, Polk DB. Colon-specific delivery of a probiotic-derived soluble protein ameliorates intestinal inflammation in mice through an EGFR-dependent mechanism. *J Clin Invest* 2011; 121 (6): 2242-53.

Ying D, Sanguansri L, Weerakkody R, Singh T, Freimüller Leischtfeld S, Gantenbein-Demarchi C, Augustin MA. Tocopherol and ascorbate have contrasting effects on the viability of microencapsulated *Lactobacillus rhamnosus* GG. *J Agric Food Chem* 2011; 59 (19): 10556-63.

Zenhom M, Hyder A, de Vrese M, Heller KJ, Roeder T, Schrezenmeir J. Peptidoglycan recognition protein 3 (PglyRP3) has an anti-inflammatory role in intestinal epithelial cells. *Immunobiology* 2011; epub

Zhang Y, Zhang L, Du M, Yi H, Guo C, Tuo Y, Han X, Li J, Zhang L, Yang L. Antimicrobial activity against *Shigella sonnei* and probiotic properties of wild lactobacilli from fermented food. *Microbiol Res* 2011; epub .

Aaltonen J, Ojala T, Laitinen K, Poussa T, Ozanne S, Isolauri E. Impact of maternal diet during pregnancy and breastfeeding on infant metabolic programming: a prospective randomized controlled study. *Eur J Clin Nutr* 2010; 65 (1): 10-9.

Amati L, Marzulli G, Martulli M, Pugliese V, Caruso C, Candore G, et al. Administration of a synbiotic to free-living elderly and evaluation of serum cytokines. A pilot study. *Curr Pharm Des* 2010; 16 (7): 854-8.

Amit-Romach E, Uni Z, Reifen R. Multistep mechanism of probiotic bacterium, the effect on innate immune system. *Mol Nutr Food Res* 2010; 54 (2): 277-84.

Baldassarre ME, Laforgia N, Fanelli M, Laneve A, Grosso R, Lifschitz C. *Lactobacillus* GG improves recovery in infants with blood in the stools and presumptive allergic colitis compared with extensively hydrolyzed formula alone. *J Pediatr* 2010; 156 (3): 397-401.

Barraud D, Blard C, Hein F, Marcon O, Cravoisy A, Nace L, et al. Probiotics in the critically ill patient: a double blind, randomized, placebo-controlled trial. *Intensive Care Med* 2010; 36 (9): 1540-7.

Bloise E, Torricelli M, Novembri R, Borges LE, Carrarelli P, Reis FM, et al. Heat-killed *Lactobacillus rhamnosus* GG modulates urocortin and cytokine release in primary trophoblast cells. *Placenta* 2010; 31 (10): 867-72.

Boyle RJ, Ismail IH, Kivivuori S, Licciardi PV, Robins-Browne RM, Mah LJ, et al. *Lactobacillus* GG treatment during pregnancy for the prevention of eczema: a randomized controlled trial. *Allergy* 2010; 66 (4): 509-16.

Brachkova MI, Duarte MA, Pinto JF. Preservation of viability and antibacterial activity of *Lactobacillus* spp. in calcium alginate beads. *Eur J Pharm Sci* 2010; 41 (5): 589-96.

Bäuerl C, Pérez-Martínez G, Yan F, Polk DB, Monedero V. Functional Analysis of the p40 and p75 Proteins from *Lactobacillus casei* BL23. *J Mol Microbiol Biotechnol* 2010; 19 (4): 231-241.

Cai S, Bay BH, Lee YK, Lu J, Mahendran R. Live and lyophilized *Lactobacillus* species elicit differential immunomodulatory effects on immune cells. *FEMS Microbiol Lett* 2010; 302 (2): 189-96.

Claes IJ, Lebeer S, Shen C, Verhoeven TL, Dilissen E, De Hertogh G, et al. Impact of lipoteichoic acid modification on the performance of the probiotic *Lactobacillus rhamnosus* GG in experimental colitis. *Clin Exp Immunol* 2010; 162 (2): 306-14.

Cox MJ, Huang YJ, Fujimura KE, Liu JT, McKean M, Boushey HA, et al. *Lactobacillus casei* abundance is associated with profound shifts in the infant gut microbiome. *PLoS One* 2010; 5 (1): e8745.

Doherty SB, Gee VL, Ross RP, Stanton C, Fitzgerald GF, Brodkorb A. Efficacy of whey protein gel networks as potential viability-enhancing scaffolds for cell immobilization of *Lactobacillus rhamnosus* GG. *J Microbiol Methods* 2010; 80 (3): 231-41.

Donato KA, Gareau MG, Wang YJ, Sherman PM. *Lactobacillus rhamnosus* GG attenuates interferon-gamma and tumour necrosis factor alpha-induced barrier dysfunction and proinflammatory signalling. *Microbiology* 2010; 156 (Pt 11): 3288-97.

Dotterud CK, Storro O, Johnsen R, Oien T. Probiotics in pregnant women to prevent allergic disease: a randomized, double-blind trial. *Br J Dermatol* 2010; 163 (3): 616-23.

Elmadfa I, Klein P, Meyer AL. Immune-stimulating effects of lactic acid bacteria *in vivo* and *in vitro*. *Proc Nutr Soc* 2010; 69 (3): 416-20.

Francavilla R, Miniello V, Magista AM, De Canio A, Bucci N, Gagliardi F, et al. A randomized controlled trial of *Lactobacillus* GG in children with functional abdominal pain. *Pediatrics* 2010; 126 (6): e1445-52.

Gaudana SB, Dhanani AS, Bagchi T. Probiotic attributes of *Lactobacillus* strains isolated from food and of human origin. *Br J Nutr* 2010; 103 (11): 1620-8.

Ghadimi D, Vrese MD, Heller KJ, Schrezenmeir J. Effect of natural commensal-origin DNA on toll-like receptor 9 (TLR9) signaling cascade, chemokine IL-8 expression, and barrier integrity of polarized intestinal epithelial cells. *Inflamm Bowel Dis* 2010; 16 (3): 410-27.

Grossi E, Buresta R, Abbiati R, Cerutti R. Clinical trial on the efficacy of a new symbiotic formulation, Flortec, in patients with acute diarrhea: a multicenter, randomized study in primary care. *J Clin Gastroenterol* 2010; 44 (S1): S35-41.

Grzeskowiak L, Isolauri E, Salminen S, Gueimonde M. Manufacturing process influences properties of probiotic bacteria. *Br J Nutr* 2010; 9: 1-8.

Harata G, He F, Hiruta N, Kawase M, Kubota A, Hiramatsu M, et al. Intranasal administration of *Lactobacillus rhamnosus* GG protects mice from H1N1 influenza virus infection by regulating respiratory immune responses. *Lett Appl Microbiol* 2010; 50 (6): 597-602.

Harata G, He F, Takahashi K, Hosono A, Kawase M, Kubota A, et al. *Bifidobacterium* suppresses IgE-mediated degranulation of rat basophilic leukemia (RBL-2H3) cells. *Microbiol Immunol* 2010; 54 (1): 54-7.

He X, Kim SS, Park SJ, Seong DH, Yoon WB, Lee HY, et al. Combined effects of probiotic fermentation and high-pressure extraction on the antioxidant, antimicrobial, and antimutagenic activities of deodeok (*Codonopsis lanceolata*). *J Agric Food Chem* 2010; 58 (3): 1719-25.

Hojdak I, Abdovic S, Szajewska H, Milosevic M, Krznaric Z, Kolacek S. *Lactobacillus* GG in the prevention of nosocomial gastrointestinal and respiratory tract infections. *Pediatrics* 2010; 125 (5): e1171-7.

Holma R, Hongisto SM, Saxelin M, Korpela R. Constipation is relieved more by rye bread than wheat bread or laxatives without increased adverse gastrointestinal effects. *J Nutr* 2010; 140 (3): 534-41.

Ilmonen I, Isolauri E, Poussa T, Laitinen K. Impact of dietary counseling and probiotic intervention on maternal anthropometric measurements during and after pregnancy: A randomized placebo controlled trial. *Clin Nutr* 2010; 30 (2): 156-164.

Kawase M, He F, Kubota A, Harata G, Hiramatsu M. Oral administration of lactobacilli from human intestinal tract protects mice against influenza virus infection. *Lett Appl Microbiol* 2010; 5 (1): 6-10.

Koskeniemi K, Laakso K, Koponen J, Kankainen M, Greco D, Auvinen P, et al. Proteomic and transcriptomic characterization of bile stress response in probiotic *Lactobacillus rhamnosus* GG. *Mol Cell Proteomics* 2010; epub.

Khalf M, Dabour N, Kheadr E, Fliss I. Viability of probiotic bacteria in maple sap products under storage and gastrointestinal conditions. *Bioresour Technol* 2010; epub.

Lebeer S, Claes IJ, Verhoeven TL, Vanderleyden J, De Keersmaecker SC. Exopolysaccharides of *Lactobacillus rhamnosus* GG form a protective shield against innate immune factors in the intestine. *Microb Biotechnol* 2010; epub.

Lee H, Yoon H, Ji Y, Kim H, Park H, Lee J, et al. Functional properties of *Lactobacillus* strains isolated from kimchi. *Int J Food Microbiol* 2010; epub.

Linsalata M, Cavallini A, Messa C, Orlando A, Refolo MG, Russo F. *Lactobacillus rhamnosus* GG influences polyamine metabolism in HGC-27 gastric cancer cell line: a strategy toward nutritional approach to chemoprevention of gastric cancer. *Curr Pharm Des* 2010; 16 (7): 847-53.

Liu F, Li G, Wen K, Bui T, Cao D, Zhang Y, et al. Porcine small intestinal epithelial cell line (IPEC-J2) of rotavirus infection as a new model for the study of innate immune responses to rotaviruses and probiotics. *Viral Immunol* 2010; 23 (2): 135-49.

Luoto R, Kalliomaki M, Laitinen K, Isolauri E. The impact of perinatal probiotic intervention on the development of overweight and obesity: follow-up study from birth to 10 years. *Int J Obes (Lond)* 2010; 34 (10): 1531-7.

Luoto R, Matomaki J, Isolauri E, Lehtonen L. Incidence of necrotizing enterocolitis in very-low-birth-weight infants related to the use of *Lactobacillus* GG. *Acta Paediatr* 2010; 99 (8): 1135-8.

Manzoni P, Decembrino L, Stolfi I, Pagni L, Rinaldi M, Cattani S, et al. Lactoferrin and prevention of late-onset sepsis in the pre-term neonates. *Early Hum Dev* 2010; S1: 59-61.

Maragkoudakis PA, Chingwaru W, Gradisnik L, Tsakalidou E, Cencic A. Lactic acid bacteria efficiently protect human and animal intestinal epithelial and immune cells from enteric virus infection. *Int J Food Microbiol* 2010; 141 (S1): S91-7.

Marianelli C, Cifani N, Pasquali P. Evaluation of antimicrobial activity of probiotic bacteria against *Salmonella enterica* subsp. *enterica* serovar *typhimurium* 1344 in a common medium under different environmental conditions. *Res Microbiol* 2010; 161 (8): 673-80.

Morrow LE, Kollef MH, Casale TB. Probiotic prophylaxis of ventilator-associated pneumonia: a blinded, randomized, controlled trial. *Am J Respir Crit Care Med* 2010; 182 (8): 1058-64.

Moussavi M, Adams MC. An *in vitro* study on bacterial growth interactions and intestinal epithelial cell adhesion characteristics of probiotic combinations. *Curr Microbiol* 2010; 60 (5): 327-35.

Ritchie BK, Brewster DR, Tran CD, Davidson GP, McNeil Y, Butler RN. Efficacy of *Lactobacillus* GG in aboriginal children with acute diarrhoeal disease: a randomised clinical trial. *J Pediatr Gastroenterol Nutr* 2010; 50 (6): 619-624.

Rose MA, Stieglitz F, Köksal A, Schubert R, Schulze J, Zielen S. Efficacy of probiotic *Lactobacillus* GG on allergic sensitization and asthma in infants at risk. *Clin Exp Allergy* 2010; 40 (9): 1398-405.

Ruas-Madiedo P, Medrano M, Salazar N, De Los Reyes-Gavilán CG, Pérez PF, Abraham AG. Exopolysaccharides produced by *Lactobacillus* and *Bifidobacterium* strains abrogate *in vitro* the cytotoxic effect of bacterial toxins on eukaryotic cells. *J Appl Microbiol* 2010; 109 (6): 2079-86.

Russell G, Kaplan J, Ferraro M, Michelow IC. Fecal bacteriotherapy for relapsing *Clostridium difficile* infection in a child: a proposed treatment protocol. *Pediatrics* 2010; 126 (1): e239-42.

Salmi H, Kuitunen M, Viljanen M, Lapatto R. Cow's milk allergy is associated with changes in urinary organic acid concentrations. *Pediatr Allergy Immunol* 2010; 21(2 Pt 2):e401-6.

Sanchez B, Saad N, Schmitter JM, Bressollier P, Urdaci MC. Adhesive properties, extracellular protein production, and metabolism in the *Lactobacillus rhamnosus* GG strain when grown in the presence of mucin. *J Microbiol Biotechnol* 2010; 20 (6): 978-84.

Saxelin M, Lassig A, Karjalainen H, Tynkkynen S, Surakka A, Vapaatalo H, et al. Persistence of probiotic strains in the gastrointestinal tract when administered as capsules, yoghurt, or cheese. *Int J Food Microbiol* 2010; 144 (2): 293-300.

Seow SW, Cai S, Rahmat JN, Bay BH, Lee YK, Chan YH, et al. *Lactobacillus rhamnosus* GG induces tumor regression in mice bearing orthotopic bladder tumors. *Cancer Sci* 2010; 101 (3): 751-8.

Sohail A, Turner MS, Coombes A, Bostrom T, Bhandari B. Survivability of probiotics encapsulated in alginate gel microbeads using a novel impinging aerosols method. *Int J Food Microbiol* 2010; Epub

Sumeri I, Arike L, Stekolstsikova J, Uusna R, Adamberg S, Adamberg K, et al. Effect of stress pretreatment on survival of probiotic bacteria in gastrointestinal tract simulator. *Appl Microbiol Biotechnol* 2010; 86 (6): 1925-31.

Tobita K, Yanaka H, Otani H. Anti-allergic effects of *Lactobacillus crispatus* KT-11 strain on ovalbumin-sensitized BALB/c mice. *Anim Sci J* 2010; 81 (6): 699-705.

van Hoffen E, Korthagen NM, de Kivit S, Schouten B, Bardoel B, Duivelshof A, et al. Exposure of intestinal epithelial cells to UV-killed *Lactobacillus* GG but not *Bifidobacterium breve* enhances the effector immune response *in vitro*. *Int Arch Allergy Immunol* 2010; 152 (2): 159-68.

Velez MP, Petrova MI, Lebeer S, Verhoeven TL, Claes I, Lambrichts I, et al. Characterization of MabA, a modulator of *Lactobacillus rhamnosus* GG adhesion and biofilm formation. *FEMS Immunol Med Microbiol* 2010; 59 (3): 386-98.

von Ossowski I, Reunanen J, Satokari R, Vesterlund S, Kankainen M, Huhtinen H, et al. Mucosal adhesion properties of the probiotic *Lactobacillus rhamnosus* GG SpaCBA and SpaFED pilin subunits. *Appl Environ Microbiol* 2010; 76 (7): 2049-57.

Wang CY, Lin PR, Ng CC, Shyu YT. Probiotic properties of *Lactobacillus* strains isolated from the feces of breast-fed infants and Taiwanese pickled cabbage. *Anaerobe* 2010; 16 (6): 578-85.

Weinbreck F, Bodnar I, Marco ML. Can encapsulation lengthen the shelf-life of probiotic bacteria in dry products? *Int J Food Microbiol* 2010; 136 (3): 364-7.

Weiss B, Bujanover Y, Yahav Y, Vilozi D, Fireman E, Efrati O. Probiotic supplementation affects pulmonary exacerbations in patients with cystic fibrosis: a pilot study. *Pediatr Pulmonol* 2010; 45 (6): 536-40.

2009 (52)

Ahlroos T, Tynkkynen S. Quantitative strain-specific detection of *Lactobacillus rhamnosus* GG in human faecal samples by real-time PCR. *J Appl Microbiol* 2009; 106 (2): 506-14.

Ananta E, Knorr D. Comparison of inactivation pathways of thermal or high pressure inactivated *Lactobacillus rhamnosus* ATCC 53103 by flow cytometry analysis. *Food Microbiol* 2009; 26 (5): 542-6.

Basu S, Paul DK, Ganguly S, Chatterjee M, Chandra PK. Efficacy of High-dose *Lactobacillus rhamnosus* GG in controlling acute watery diarrhea in Indian children: A randomized controlled trial. *J Clin Gastroenterol* 2009; 43 (3): 208-13.

Burkholder KM, Bhunia AK. *Salmonella enterica* serovar Typhimurium adhesion and cytotoxicity during epithelial cell stress is reduced by *Lactobacillus rhamnosus* GG. *Gut Pathog* 2009; 1 (1):14

Deepika G, Green RJ, Frazier RA, Charalampopoulos D. Effect of growth time on the surface and adhesion properties of *Lactobacillus rhamnosus* GG. *J Appl Microbiol* 2009; 107 (4): 1230-40.

Dommels YE, Kemperman RA, Zebregs YE, Draaisma RB, Jol A, Wolvers DA et al. Human gastrointestinal tract survival of *Lactobacillus reuteri* DSM 17938 and *Lactobacillus rhamnosus* GG after daily consumption of a low fat probiotic spread. *Appl Environ Microbiol* 2009; 75 (19): 6198-204.

Ferrara P, Romaniello L, Vitelli O, Gatto A, Serva M, Cataldi L. Cranberry juice for the prevention of recurrent urinary tract infections: A randomized controlled trial in children. *Scand J Urol Nephrol* 2009; 43 (5): 369-72.

Forsyth CB, Farhadi A, Jakate SM, Tang Y, Shaikh M, Keshavarzian A. *Lactobacillus* GG treatment ameliorates alcohol-induced intestinal oxidative stress, gut leakiness, and liver injury in a rat model of alcoholic steatohepatitis. *Alcohol* 2009; 43 (2): 163-72.

Friis LM, Keelan M, Taylor DE. *Campylobacter jejuni* drives MyD88-independent interleukin-6 secretion via Toll-like receptor 2. *Infect Immun* 2009; 77 (4): 1553-60.

Garcia CA, Henriquez AP, Retamal RC, Pineda CS, Delgado Sen C, Gonzalez CC. Probiotic properties of *Lactobacillus* spp isolated from gastric biopsies of *Helicobacter pylori* infected and non-infected individuals (article in Spanish). *Rev Med Chil* 2009; 137 (3): 369-76.

Gardiner GE, O'Flaherty S, Casey PG, Weber A, McDonald TL, Cronin M et al. Evaluation of colostrum-derived human mammary-associated serum amyloid A3 (M-SAA3) protein and peptide derivatives for the prevention of enteric infection: in vitro and in murine models of intestinal disease. *FEMS Immunol Med Microbiol* 2009; 55 (3): 404-13.

Ghadimi D, Vrese MD, Heller KJ, Schrezenmeir J. Effect of natural commensal-origin DNA on toll-like receptor 9 (TLR9) signaling cascade, chemokine IL-8 expression, and barrier integrity of polarized intestinal epithelial cells. *Inflamm Bowel Dis* 2009; 16 (3): 410-27.

Harata G, He F, Kawase M, Hosono A, Takahashi K, Kaminogawa S. Differentiated implication of *Lactobacillus* GG and *L. gasseri* TMC0356 to immune responses of murine Peyer's patch. *Microbiol Immunol* 2009; 53 (8): 475-80.

Hojdak I, Snovak N, Abdovic S, Szajewska H, Misak Z, Kolacek S. *Lactobacillus* GG in the prevention of gastrointestinal and respiratory tract infections in children who attend day care centers: A randomized, double-blind, placebo-controlled trial. *Clin Nutr* 2009; 29 (3): 312-6.

Huang SH, He L, Zhou Y, Wu CH, Jong A. *Lactobacillus rhamnosus* GG Suppresses Meningitic *E. coli* K1 penetration across human intestinal epithelial cells in vitro and protects neonatal rats against experimental

hematogenous meningitis. *Int J Microbiol* 2009; 2009: 647862.

Kankainen M, Paulin L, Tynkkynen S, von Ossowski I, Reunanen J, Partanen P et al. Comparative genomic analysis of *Lactobacillus rhamnosus* GG reveals pili containing a human-mucus binding protein. *Proc Natl Acad Sci U S A* 2009; 106 (40): 17193-8.

Koskenniemi K, Koponen J, Kankainen M, Savijoki K, Tynkkynen S, de Vos WM et al. Proteome analysis of *Lactobacillus rhamnosus* GG using 2-D DIGE and mass spectrometry shows differential protein production in laboratory and industrial-type growth media. *J Proteome Res* 2009; 8 (11): 4993-5007.

Kubota A, He F, Kawase M, Harata G, Hiramatsu M, Salminen S et al. *Lactobacillus* strains stabilize intestinal microbiota in Japanese cedar pollinosis patients. *Microbiol Immunol* 2009; 53 (4): 198-205.

Laparra JM, Sanz Y. Comparison of in vitro models to study bacterial adhesion to the intestinal epithelium. *Lett Appl Microbiol* 2009; 49 (6): 695-701.

Lebeer S, Verhoeven TL, Francius G, Schoofs G, Lambrichts I, Dufrene Y et al. Identification of a gene cluster for the biosynthesis of a long galactose-rich exopolysaccharide in *Lactobacillus rhamnosus* GG and functional analysis of the priming glycosyltransferase. *Appl Environ Microbiol* 2009; 75 (11): 3554-63.

Li N, Russell WM, Douglas-escobar M, Hauser N, Lopez M, Neu J. Live and heat-killed *Lactobacillus rhamnosus* GG: effects on proinflammatory and anti-inflammatory cytokines/chemokines in gastrostomy-fed infant rats. *Pediatr Res* 2009; 66 (2): 203-7.

Lin PW, Myers LE, Ray L, Song SC, Nasr TR, Berardinelli AJ et al. *Lactobacillus rhamnosus* blocks inflammatory signaling in vivo via reactive oxygen species generation. *Free Radic Biol Med* 2009; 47 (8): 1205-11.

Lu R, Fasano S, Madayiputhiya N, Morin NP, Nataro J, Fasano A. Isolation, identification, and characterization of small bioactive peptides from *Lactobacillus* GG conditional media that exert both anti-Gram-negative and Gram-positive bactericidal activity. *J Pediatr Gastroenterol Nutr* 2009; 49 (1): 23-30.

Manzoni P, Rinaldi M, Cattani S, Pagni L, Romeo MG, Messner H et al. Bovine lactoferrin supplementation for prevention of late-onset sepsis in very low-birth-weight neonates: a randomized trial. *Jama* 2009; 302 (13): 1421-8.

Marsella R. Evaluation of *Lactobacillus rhamnosus* strain GG for the prevention of atopic dermatitis in dogs. *Am J Vet Res* 2009; 70 (6): 735-40.

Mileti E, Matteoli G, Iliev ID, Rescigno M. Comparison of the immunomodulatory properties of three probiotic strains of Lactobacilli using complex culture systems: prediction for in vivo efficacy. *PLoS One* 2009; 4 (9): e7056.

Misra S, Sabui TK, Pal NK. A randomized controlled trial to evaluate the efficacy of *Lactobacillus* GG in infantile diarrhea. *J Pediatr* 2009; 155 (1): 129-32.

Morita H, Toh H, Oshima K, Murakami M, Taylor TD, Igimi S et al. Complete genome sequence of probiotic *Lactobacillus rhamnosus* ATCC 53103. *J Bacteriol* 2009; 191 (24): 7630-1.

Moslehi-Jenabian S, Gori K, Jespersen L. AI-2 signalling is induced by acidic shock in probiotic strains of *Lactobacillus* spp. *Int J Food Microbiol* 2009; 135 (3): 295-302.

Mutlu E, Keshavarzian A, Engen P, Forsyth CB, Sikaroodi M, Gillevet P. Intestinal dysbiosis: A possible mechanism of alcohol-induced endotoxemia and alcoholic steatohepatitis in rats. *Alcohol Clin Exp Res* 2009; 33 (10): 1836-46.

Nandakumar NS, Pugazhendhi S, Madhu Mohan K, Jayakanthan K, Ramakrishna BS. Effect of *Vibrio cholerae* on chemokine gene expression in HT29 cells and its modulation by *Lactobacillus* GG. *Scand J Immunol* 2009a; 69 (3): 181-7.

Nandakumar NS, Pugazhendhi S, Ramakrishna BS. Effects of enteropathogenic bacteria & lactobacilli on chemokine secretion & Toll like receptor gene expression in two human colonic epithelial cell lines. *Indian J Med Res* 2009b; 130 (2): 170-8.

Orlando A, Messa C, Linsalata M, Cavallini A, Russo F. Effects of *Lactobacillus rhamnosus* GG on proliferation and polyamine metabolism in HGC-27 human gastric and DLD-1 colonic cancer cell lines. *Immunopharmacol Immunotoxicol* 2009; 31 (1): 108-16.

Pipenbaher N, Moeller PL, Dolinsek J, Jakobsen M, Weingartl H, Cencic A. Nitric oxide (NO) production in mammalian non-tumorigenic epithelial cells of the small intestine and macrophages induced by individual strains of lactobacilli and bifidobacteria. *Int Dairy J* 2009; 19 (3): 166-71.

Principalli MS, Paoletti C, Magi G, Palmieri C, Ferrante L, Facinelli B. *Lactobacillus rhamnosus* GG inhibits invasion of cultured human respiratory cells by prtF1-positive macrolide-resistant group A streptococci. *Lett Appl Microbiol* 2009; 48 (3): 368-72.

Salmi H, Kuitunen M, Viljanen M, Lapatto R. Cow's milk allergy is associated with changes in urinary organic acid concentrations. *Pediatr Allergy Immunol* 2009; (2 Pt 2): e401-6.

Sanchez B, Bressollier P, Chaignepain S, Schmitter JM, Urdaci MC. Identification of surface-associated proteins in the probiotic bacterium *Lactobacillus rhamnosus* GG. *Int Dairy J* 2009a; 19 (2): 85-8.

Sanchez B, Schmitter JM, Urdaci MC. Identification of novel proteins secreted by *Lactobacillus rhamnosus* GG grown in de Mann-Rogosa-Sharpe broth. *Lett Appl Microbiol* 2009b; 48 (5): 618-22.

Scalabrin DM, Johnston WH, Hoffman DR, P'Pool VL, Harris CL, Mitmesser SH. Growth and tolerance of healthy term infants receiving hydrolyzed infant formulas supplemented with *Lactobacillus rhamnosus* GG: randomized, double-blind, controlled trial. *Clin Pediatr (Phila)* 2009; 48 (7): 734-44.

Siaterlis A, Deepika G, Charalampopoulos D. Effect of culture medium and cryoprotectants on the growth and survival of probiotic lactobacilli during freeze drying. *Lett Appl Microbiol* 2009; 48 (3): 295-301.

Slonim AE, Grovit M, Bulone L. Effect of exclusion diet with nutraceutical therapy in juvenile Crohn's disease. *J Am Coll Nutr* 2009; 28 (3): 277-85.

Sreekumar R, Al-Attabi Z, Deeth HC, Turner MS. Volatile sulfur compounds produced by probiotic bacteria in the presence of cysteine or methionine. *Lett Appl Microbiol* 2009; 48 (6): 777-82.

Stamatova I, Kari K, Vladimirov S, Meurman JH. In vitro evaluation of yoghurt starter lactobacilli and *Lactobacillus rhamnosus* GG adhesion to saliva-coated surfaces. *Oral Microbiol Immunol* 2009; 24 (3): 218-23.

- Sun J, Hu XL, Le GW, Shi YH. Lactobacilli prevent hydroxy radical production and inhibit *Escherichia coli* and *Enterococcus* growth in system mimicking colon fermentation. *Lett Appl Microbiol* 2009;50(3):264-9.
- Szajewska H, Albrecht P, Topczewska-Cabane A. Randomized, double-blind, placebo-controlled trial: effect of *Lactobacillus* GG supplementation on *Helicobacter pylori* eradication rates and side effects during treatment in children. *J Pediatr Gastroenterol Nutr* 2009; 48 (4): 431-6.
- Toki S, Kagaya S, Shinohara M, Wakiguchi H, Matsumoto T, Takahata Y et al. *Lactobacillus rhamnosus* GG and *Lactobacillus casei* Suppress *Escherichia coli*-Induced Chemokine Expression in Intestinal Epithelial Cells. *Int Arch Allergy Immunol* 2009; 148 (1): 45-58.
- Twetman L, Larsen U, Fiehn NE, Stecksén-Blicks C, Twetman S. Coaggregation between probiotic bacteria and caries-associated strains: An in vitro study. *Acta Odontol Scand* 2009; 67 (5): 284-8.
- Van den Abbeele P, Grootaert C, Possemiers S, Verstraete W, Verbeken K, Van de Wiele T. In vitro model to study the modulation of the mucin-adhered bacterial community. *Appl Microbiol Biotechnol* 2009; 83 (2): 349-59.
- Vizoso Pinto MG, Rodriguez Gomez M, Seifert S, Watzl B, Holzapfel WH, Franz CM. Lactobacilli stimulate the innate immune response and modulate the TLR expression of HT29 intestinal epithelial cells in vitro. *Int J Food Microbiol* 2009; 133 (1-2): 86-93.
- Worona-Dibner L. Randomized, double-blind, placebo-controlled trial: Effect of *Lactobacillus* GG supplementation on *Helicobacter pylori* eradication rates and side effects during treatment in children. (article in Spanish). *Rev Gastroenterol Mex* 2009a; 74 (2): 142-3.
- Xu H, Jeong HS, Lee HY, Ahn J. Assessment of cell surface properties and adhesion potential of selected probiotic strains. *Lett Appl Microbiol* 2009; 49 (4): 434-42.
- Zhang L, Xu YQ, Liu HY, Lai T, Ma JL, Wang JF et al. Evaluation of *Lactobacillus rhamnosus* GG using an *Escherichia coli* K88 model of piglet diarrhoea: Effects on diarrhoea incidence, faecal microflora and immune responses. *Vet Microbiol* 2009; 141 (1-2): 142-8.

2008 (42)

- Amit-Romach E, Uni Z, Reifen R. Therapeutic potential of two probiotics in inflammatory bowel disease as observed in the trinitrobenzene sulfonic acid model of colitis. *Dis Colon Rectum* 2008; 51 (12): 1828-36.
- Botes M, Loos B, van Reenen CA, Dicks LM. Adhesion of the probiotic strains *Enterococcus mundtii* st4sa and *Lactobacillus plantarum* 423 to caco-2 cells under conditions simulating the intestinal tract, and in the presence of antibiotics and anti-inflammatory medicaments. *Arch Microbiol* 2008; 190 (5): 573-84.
- Boyle RJ, Mah LJ, Chen A, Kivivuori S, Robins-Browne RM, Tang ML. Effects of *Lactobacillus* GG treatment during pregnancy on the development of fetal antigen-specific immune responses. *Clin Exp Allergy* 2008; 38 (12): 1882-90.
- Carey CM, Kostrzynska M, Ojha S, Thompson S. The effect of probiotics and organic acids on shiga-toxin 2 gene expression in enterohemorrhagic *Escherichia coli* o157:H7. *J Microbiol Methods* 2008; 73 (2): 125-32.

Choi CH, Kim TI, Lee SK, Yang KM, Kim WH. Effect of *Lactobacillus* GG and conditioned media on il-1beta-induced il-8 production in caco-2 cells. *Scand J Gastroenterol* 2008; 43 (8): 938-47.

Coudeyras S, Marchandin H, Fajon C, Forestier C. Taxonomic and strain-specific identification of the probiotic strain *Lactobacillus rhamnosus* 35 within the *Lactobacillus casei* group. *Appl Environ Microbiol* 2008; 74 (9): 2679-89.

De Vecchi E, Nicola L, Zanini S, Drago L. In vitro screening of probiotic characteristics of some italian products. *J Chemother* 2008; 20 (3): 341-7.

Francius G, Lebeer S, Alsteens D, Wildling L, Gruber HJ, Hols P et al. Detection, localization, and conformational analysis of single polysaccharide molecules on live bacteria. *ACS NANO* 2008; 2 (9): 1921-9.

Ghadimi D, Folster-Holst R, de Vrese M, Winkler P, Heller KJ, Schrezenmeir J. Effects of probiotic bacteria and their genomic DNA on th1/th2-cytokine production by peripheral blood mononuclear cells (pbmcs) of healthy and allergic subjects. *Immunobiology* 2008; 213 (8): 677-92.

Guarino MP, Altomare A, Stasi E, Marignani M, Severi C, Alloni R et al. Effect of acute mucosal exposure to *Lactobacillus rhamnosus* GG on human colonic smooth muscle cells. *J Clin Gastroenterol* 2008; 42 Suppl 3 (part 2): S185-90.

Halttunen T, Collado MC, El-Nezami H, Meriluoto J, Salminen S. Combining strains of lactic acid bacteria may reduce their toxin and heavy metal removal efficiency from aqueous solution. *Lett Appl Microbiol* 2008; 46 (2): 160-5.

Haukioja A, Loimaranta V, Tenovuo J. Probiotic bacteria affect the composition of salivary pellicle and streptococcal adhesion in vitro. *Oral Microbiol Immunol* 2008a; 23 (4): 336-43.

Haukioja A, Soderling E, Tenovuo J. Acid production from sugars and sugar alcohols by probiotic lactobacilli and bifidobacteria in vitro. *Caries Res* 2008b; 42 (6): 449-53.

Hedberg M, Hasslof P, Sjostrom I, Twetman S, Stecksén-Blicks C. Sugar fermentation in probiotic bacteria--an in vitro study. *Oral Microbiol Immunol* 2008; 23 (6): 482-5.

Iliev ID, Tohno M, Kurosaki D, Shimosato T, He F, Hosoda M et al. Immunostimulatory oligodeoxynucleotide containing tttcgttt motif from *Lactobacillus rhamnosus* GG DNA potentially suppresses ova-specific ige production in mice. *Scand J Immunol* 2008; 67 (4): 370-6.

Infante Pina D, Redecillas Ferreiro S, Torrent Vernetta A, Segarra Canton O, Maldonado Smith M, Gartner Tizziano L et al. Improvement of intestinal function in cystic fibrosis patients using probiotics (article in Spanish). *An Pediatr (Barc)* 2008; 69 (6): 501-5.

Johnson-Henry KC, Donato KA, Shen-Tu G, Gordanpour M, Sherman PM. *Lactobacillus rhamnosus* strain GG prevents enterohemorrhagic *Escherichia coli* o157:H7-induced changes in epithelial barrier function. *Infect Immun* 2008; 76 (4): 1340-8.

Kekkonen RA, Lummela N, Karjalainen H, Latvala S, Tynkkynen S, Jarvenpaa S et al. Probiotic intervention has strain-specific anti-inflammatory effects in healthy adults. *World J Gastroenterol* 2008a; 14 (13): 2029-36.

Kekkonen RA, Sysi-Aho M, Seppanen-Laakso T, Julkunen I, Vapaatalo H, Oresic M et al. Effect of probiotic *Lactobacillus rhamnosus* GG intervention on global serum lipidomic profiles in healthy adults. *World J Gastroenterol* 2008b; 14 (20): 3188-94.

Kopp MV, Goldstein M, Dietschek A, Sofke J, Heinzmann A, Urbanek R. *Lactobacillus* GG has in vitro effects on enhanced interleukin-10 and interferon-gamma release of mononuclear cells but no in vivo effects in supplemented mothers and their neonates. *Clin Exp Allergy* 2008a; 38 (4): 602-10.

Kopp MV, Hennemuth I, Heinzmann A, Urbanek R. Randomized, double-blind, placebo-controlled trial of probiotics for primary prevention: No clinical effects of *Lactobacillus* GG supplementation. *Pediatrics* 2008b; 121 (4): e850-6.

Latvala S, Pietila TE, Veckman V, Kekkonen RA, Tynkkynen S, Korpela R et al. Potentially probiotic bacteria induce efficient maturation but differential cytokine production in human monocyte-derived dendritic cells. *World J Gastroenterol* 2008; 14 (36): 5570-83.

Lebeer S, Claes IJ, Verhoeven TL, Shen C, Lambrichts I, Ceuppens JL et al. Impact of luxS and suppressor mutations on the gastrointestinal transit of *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2008; 74 (15): 4711-8.

Lin PW, Nasr TR, Berardinelli AJ, Kumar A, Neish AS. The probiotic *Lactobacillus* GG may augment intestinal host defense by regulating apoptosis and promoting cytoprotective responses in the developing murine gut. *Pediatr Res* 2008; 64 (5): 511-6.

Lopez M, Li N, Kataria J, Russell M, Neu J. Live and ultraviolet-inactivated *Lactobacillus rhamnosus* GG decrease flagellin-induced interleukin-8 production in caco-2 cells. *J Nutr* 2008; 138 (11): 2264-8.

Miettinen M, Veckman V, Latvala S, Sareneva T, Matikainen S, Julkunen I. Live *Lactobacillus rhamnosus* and *Streptococcus pyogenes* differentially regulate toll-like receptor (tlr) gene expression in human primary macrophages. *J Leukoc Biol* 2008; 84 (4): 1092-100.

Myllyluoma E, Ahonen AM, Korpela R, Vapaatalo H, Kankuri E. Effects of multispecies probiotic combination on *Helicobacter pylori* infection in vitro. *Clin Vaccine Immunol* 2008; 15 (9): 1472-82.

Nybom SM, Salminen SJ, Meriluoto JA. Specific strains of probiotic bacteria are efficient in removal of several different cyanobacterial toxins from solution. *Toxicon* 2008; 52 (2): 214-20.

Pehkonen KS, Roos YH, Miao S, Ross RP, Stanton C. State transitions and physicochemical aspects of cryoprotection and stabilization in freeze-drying of *Lactobacillus rhamnosus* GG (LGG). *J Appl Microbiol* 2008; 104 (6): 1732-43.

Piirainen L, Haahtela S, Helin T, Korpela R, Haahtela T, Vaarala O. Effect of *Lactobacillus rhamnosus* GG on rbet v1 and rmal d1 specific iga in the saliva of patients with birch pollen allergy. *Ann Allergy Asthma Immunol* 2008a; 100 (4): 338-42.

Piirainen L, Kekkonen RA, Kajander K, Ahlroos T, Tynkkynen S, Nevala R et al. In school-aged children a combination of galacto-oligosaccharides and *Lactobacillus* GG increases bifidobacteria more than *Lactobacillus* GG on its own. *Ann Nutr Metab* 2008b; 52 (3): 204-8.

- Rokka S, Myllykangas S, Joutsjoki V. Effect of specific colostral antibodies and selected lactobacilli on the adhesion of helicobacter pylori on ags cells and the *Helicobacter*-induced il-8 production. *Scand J Immunol* 2008; 68 (3): 280-6.
- Sentongo TA, Cohran V, Korff S, Sullivan C, Iyer K, Zheng X. Intestinal permeability and effects of *Lactobacillus rhamnosus* therapy in children with short bowel syndrome. *J Pediatr Gastroenterol Nutr* 2008; 46 (1): 41-7.
- Seow SW, Rahmat JN, Bay BH, Lee YK, Mahendran R. Expression of chemokine/cytokine genes and immune cell recruitment following the instillation of *Mycobacterium bovis*, *Bacillus calmette-guerin* or *Lactobacillus rhamnosus* strain GG in the healthy murine bladder. *Immunology* 2008; 124 (3): 419-27.
- Seth A, Yan F, Polk DB, Rao RK. Probiotics ameliorate the hydrogen peroxide-induced epithelial barrier disruption by a pkc- and map kinase-dependent mechanism. *Am J Physiol Gastrointest Liver Physiol* 2008; 294 (4): G1060-9.
- Sumeri I, Arike L, Adamberg K, Paalme T. Single bioreactor gastrointestinal tract simulator for study of survival of probiotic bacteria. *Appl Microbiol Biotechnol* 2008; 80 (2): 317-24.
- Turner PC, Wu QK, Piekola S, Gratz S, Mykkanen H, El-Nezami H. *Lactobacillus rhamnosus* strain GG restores alkaline phosphatase activity in differentiating caco-2 cells dosed with the potent mycotoxin deoxynivalenol. *Food Chem Toxicol* 2008; 46 (6): 2118-23.
- Wakabayashi H, Nariai C, Takemura F, Nakao W, Fujiwara D. Dietary supplementation with lactic acid bacteria attenuates the development of atopic-dermatitis-like skin lesions in nc/nga mice in a strain-dependent manner. *Int Arch Allergy Immunol* 2008; 145 (2): 141-51.
- Valik L, Medvedova A, Liptakova D. Characterization of the growth of *Lactobacillus rhamnosus* GG in milk at suboptimal temperatures. *J Food Nutr Res* 2008; 47 (2): 60-7.
- Volkert M, Ananta E, Luscher C, Knorr D. Effect of air freezing, spray freezing, and pressure shift freezing on membrane integrity and viability of *Lactobacillus rhamnosus* GG. *J Food Eng* 2008; 87 (4): 532-40.
- Xu H, Lee HY, Hwang B, Nam JH, Kang HY, Ahn J. Kinetics of microbial hydrogenation of free linoleic acid to conjugated linoleic acids. *J Appl Microbiol* 2008; 105 (6): 2239-47.
- Zhang Q, Chen QY. Effect of *Lactobacillus rhamnosus* GG on immune response: Experiment with autoimmune mice induced by *Campylobacter jejuni* (article in Chinese). *Zhonghua Yi Xue Za Zhi* 2008; 88 (48): 3436-9.

2007 (44)

- Basu S, Chatterjee M, Ganguly S, Chandra PK. Effect of *Lactobacillus rhamnosus* GG in persistent diarrhea in indian children: A randomized controlled trial. *J Clin Gastroenterol* 2007a; 41 (8): 756-60.
- Basu S, Chatterjee M, Ganguly S, Chandra PK. Efficacy of *Lactobacillus rhamnosus* GG in acute watery diarrhoea of indian children: A randomised controlled trial. *J Paediatr Child Health* 2007b; 43 (12): 837-42.

Blumer N, Sel S, Virna S, Patrascu CC, Zimmermann S, Herz U et al. Perinatal maternal application of *Lactobacillus rhamnosus* GG suppresses allergic airway inflammation in mouse offspring. *Clin Exp Allergy* 2007; 37 (3): 348-57.

Bruzzese E, Raia V, Spagnuolo MI, Volpicelli M, De Marco G, Maiuri L et al. Effect of *Lactobacillus* GG supplementation on pulmonary exacerbations in patients with cystic fibrosis: A pilot study. *Clin Nutr* 2007; 26 (3): 322-8.

Canani RB, Cirillo P, Terrin G, Cesarano L, Spagnuolo MI, De Vincenzo A et al. Probiotics for treatment of acute diarrhoea in children: Randomised clinical trial of five different preparations. *BMJ* 2007; 335 (7615): 340.

Cohen LA, Crespin JS, Wolper C, Zang EA, Pittman B, Zhao Z et al. Soy isoflavone intake and estrogen excretion patterns in young women: Effect of probiotic administration. *In Vivo* 2007; 21 (3): 507-12.

Collado MC, Grzeskowiak L, Salminen S. Probiotic strains and their combination inhibit in vitro adhesion of pathogens to pig intestinal mucosa. *Curr Microbiol* 2007a; 55 (3): 260-5.

Collado MC, Meriluoto J, Salminen S. Development of new probiotics by strain combinations: Is it possible to improve the adhesion to intestinal mucus? *J Dairy Sci* 2007b; 90 (6): 2710-6.

Collado MC, Meriluoto J, Salminen S. In vitro analysis of probiotic strain combinations to inhibit pathogen adhesion to human intestinal mucus. *Food Res Int* 2007c; 40 (5): 629-36.

Corcoran BM, Stanton C, Fitzgerald GF, Ross RP. Growth of probiotic lactobacilli in the presence of oleic acid enhances subsequent survival in gastric juice. *Microbiology* 2007; 153 (Pt 1): 291-9.

Delgado S, O'Sullivan E, Fitzgerald G, Mayo B. Subtractive screening for probiotic properties of lactobacillus species from the human gastrointestinal tract in the search for new probiotics. *J Food Sci* 2007; 72 (8): M310-5.

Donkor ON, Tsangalis D, Shah NP. Viability of probiotic bacteria and concentrations of organic acids in commercial yoghurts during refrigerated storage. *Food Australia* 2007; 59 (4): 121-6.

Farnworth ER, Mainville I, Desjardins MP, Gardner N, Fliss I, Champagne C. Growth of probiotic bacteria and bifidobacteria in a soy yogurt formulation. *Int J Food Microbiol* 2007; 116 (1): 174-81.

Fayol-Messaoudi D, Coconnier-Polter MH, Moal VL, Atassi F, Berger CN, Servin AL. The *Lactobacillus plantarum* strain aca-dc287 isolated from a greek cheese demonstrates antagonistic activity in vitro and in vivo against *Salmonella enterica* serovar Typhimurium. *J Appl Microbiol* 2007; 103 (3): 657-65.

Feleszko W, Jaworska J, Rha RD, Steinhausen S, Avagyan A, Jaudszus A et al. Probiotic-induced suppression of allergic sensitization and airway inflammation is associated with an increase of t regulatory-dependent mechanisms in a murine model of asthma. *Clin Exp Allergy* 2007; 37 (4): 498-505.

Gawronska A, Dziechciarz P, Horvath A, Szajewska H. A randomized double-blind placebo-controlled trial of *Lactobacillus* GG for abdominal pain disorders in children. *Aliment Pharmacol Ther* 2007; 25 (2): 177-84.

Geier MS, Butler RN, Giffard PM, Howarth GS. *Lactobacillus fermentum* br11, a potential new probiotic, alleviates symptoms of colitis induced by dextran sulfate sodium (dss) in rats. *Int J Food Microbiol* 2007; 114 (3): 267-74.

Gratz S, Wu QK, El-Nezami H, Juvonen RO, Mykkanen H, Turner PC. *Lactobacillus rhamnosus* strain GG reduces aflatoxin b1 transport, metabolism, and toxicity in caco-2 cells. *Appl Environ Microbiol* 2007; 73 (12): 3958-64.

Gruber C, Wendt M, Sulser C, Lau S, Kulig M, Wahn U et al. Randomized, placebo-controlled trial of *Lactobacillus rhamnosus* GG as treatment of atopic dermatitis in infancy. *Allergy* 2007; 62 (11): 1270-6.

Honeycutt TC, El Khashab M, Wardrop RM, 3rd, McNeal-Trice K, Honeycutt AL, Christy CG et al. Probiotic administration and the incidence of nosocomial infection in pediatric intensive care: A randomized placebo-controlled trial. *Pediatr Crit Care Med* 2007; 8 (5): 452-8.

Kalliomaki M, Salminen S, Poussa T, Isolauri E. Probiotics during the first 7 years of life: A cumulative risk reduction of eczema in a randomized, placebo-controlled trial. *Journal Of Allergy And Clinical Immunology* 2007; 119 (4): 1019-21.

Kamil R, Geier MS, Butler RN, Howarth GS. *Lactobacillus rhamnosus* GG exacerbates intestinal ulceration in a model of indomethacin-induced enteropathy. *Dig Dis Sci* 2007; 52 (5): 1247-52.

Kekkonen RA, Ahlroos T, Suomalainen T, Tynkkynen S, Poussa T, Nevala R et al. A combination of galacto-oligosaccharides and *Lactobacillus* GG increases bifidobacteria to a greater extent than *Lactobacillus* GG on its own. *Milk Sci Int (Milchwissenschaft)* 2007a; 62 (3): 326-30.

Kekkonen RA, Vasankari TJ, Vuorimaa T, Haahtela T, Julkunen I, Korpela R. The effect of probiotics on respiratory infections and gastrointestinal symptoms during training in marathon runners. *Int J Sport Nutr Exerc Metab* 2007b; 17 (4): 352-63.

Lam EK, Tai EK, Koo MW, Wong HP, Wu WK, Yu L et al. Enhancement of gastric mucosal integrity by *Lactobacillus rhamnosus* GG. *Life Sci* 2007a; 80 (23): 2128-36.

Lam EK, Yu L, Wong HP, Wu WK, Shin VY, Tai EK et al. Probiotic *Lactobacillus rhamnosus* GG enhances gastric ulcer healing in rats. *Eur J Pharmacol* 2007b; 565 (1-3): 171-9.

Larsen N, Nissen P, Willats WG. The effect of calcium ions on adhesion and competitive exclusion of *Lactobacillus* ssp. and *E. coli* o138. *Int J Food Microbiol* 2007; 114 (1): 113-9.

Lebeer S, De Keersmaecker SC, Verhoeven TL, Fadda AA, Marchal K, Vanderleyden J. Functional analysis of LuxS in the probiotic strain *Lactobacillus rhamnosus* GG reveals a central metabolic role important for growth and biofilm formation. *J Bacteriol* 2007a; 189 (3): 860-71.

Lebeer S, Verhoeven TL, Perea Velez M, Vanderleyden J, De Keersmaecker SC. Impact of environmental and genetic factors on biofilm formation by the probiotic strain *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2007b; 73 (21): 6768-75.

Manley KJ, Fraenkel MB, Mayall BC, Power DA. Probiotic treatment of vancomycin-resistant enterococci: A randomised controlled trial. *Med J Aust* 2007; 186 (9): 454-7.

Mauger CA, Butler RN, Geier MS, Tooley KL, Howarth GS. Probiotic effects on 5-fluorouracil-induced mucositis assessed by the sucrose breath test in rats. *Dig Dis Sci* 2007; 52 (3): 612-9.

Mogilner JG, Srugo I, Lurie M, Shaoul R, Coran AG, Shiloni E et al. Effect of probiotics on intestinal regrowth and bacterial translocation after massive small bowel resection in a rat. *J Pediatr Surg* 2007; 42 (8): 1365-71.

- Moreira A, Kekkonen R, Korpela R, Delgado L, Haahtela T. Allergy in marathon runners and effect of *Lactobacillus* GG supplementation on allergic inflammatory markers. *Respir Med* 2007; 101 (6): 1123-31.
- Nilsson U, Nyman M. Carboxylic acids in the hindgut of rats fed highly soluble inulin and *Bifidobacterium lactis* (bb-12), *Lactobacillus salivarius* (ucc500) or *Lactobacillus rhamnosus* (GG). *Scand J Food Nutr* 2007; 51 (1): 13-21.
- Nybohm SM, Salminen SJ, Meriluoto JA. Removal of microcystin-Lr by strains of metabolically active probiotic bacteria. *FEMS Microbiol Lett* 2007; 270 (1): 27-33.
- Osterlund P, Ruotsalainen T, Korpela R, Saxelin M, Ollus A, Valta P et al. *Lactobacillus* supplementation for diarrhoea related to chemotherapy of colorectal cancer: A randomised study. *Br J Cancer* 2007; 97 (8): 1028-34.
- Pant N, Marcotte H, Brussow H, Svensson L, Hammarstrom L. Effective prophylaxis against rotavirus diarrhea using a combination of *Lactobacillus rhamnosus* GG and antibodies. *BMC Microbiol* 2007; 7: 86.
- Perea Velez M, Verhoeven TL, Draing C, Von Aulock S, Pfitzenmaier M, Geyer A et al. Functional analysis of d-alanylation of lipoteichoic acid in the probiotic strain *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2007; 73 (11): 3595-604.
- Russo F, Orlando A, Linsalata M, Cavallini A, Messa C. Effects of *Lactobacillus rhamnosus* GG on the cell growth and polyamine metabolism in hgc-27 human gastric cancer cells. *Nutr Cancer* 2007; 59 (1): 106-14.
- Sawada J, Morita H, Tanaka A, Salminen S, He F, Matsuda H. Ingestion of heat-treated *Lactobacillus rhamnosus* GG prevents development of atopic dermatitis in nc/nga mice. *Clin Exp Allergy* 2007; 37 (2): 296-303.
- Szajewska H, Gawronska A, Wos H, Banaszkiwicz A, Grzybowska-Chlebowczyk U. Lack of effect of *Lactobacillus* GG in breast-fed infants with rectal bleeding: A pilot double-blind randomized controlled trial. *J Pediatr Gastroenterol Nutr* 2007; 45 (2): 247-51.
- Turner MS, Waldherr F, Loessner MJ, Giffard PM. Antimicrobial activity of lysostaphin and a listeria monocytogenes bacteriophage endolysin produced and secreted by lactic acid bacteria. *Syst Appl Microbiol* 2007; 30 (1): 58-67.
- Vizoso Pinto MG, Schuster T, Briviba K, Watzl B, Holzapfel WH, Franz CM. Adhesive and chemokine stimulatory properties of potentially probiotic lactobacillus strains. *J Food Prot* 2007; 70 (1): 125-34.
- Yan F, Cao H, Cover TL, Whitehead R, Washington MK, Polk DB. Soluble proteins produced by probiotic bacteria regulate intestinal epithelial cell survival and growth. *Gastroenterology* 2007; 132 (2): 562-75.

2006 (40)

- Almaas H, Holm H, Langsrud T, Flengsrud R, Vegarud GE. In vitro studies of the digestion of caprine whey proteins by human gastric and duodenal juice and the effects on selected microorganisms. *Br J Nutr* 2006; 96 (3): 562-9.

Atassi F, Brassart D, Grob P, Graf F, Servin AL. In vitro antibacterial activity of *Lactobacillus helveticus* strain ks300 against diarrhoeagenic, uropathogenic and vaginosis-associated bacteria. *J Appl Microbiol* 2006a; 101 (3): 647-54.

Atassi F, Brassart D, Grob P, Graf F, Servin AL. Vaginal lactobacillus isolates inhibit uropathogenic escherichia coli. *FEMS Microbiol Lett* 2006b; 257 (1): 132-8.

Briand V, Buffet P, Genty S, Lacombe K, Godineau N, Salomon J et al. Absence of efficacy of nonviable *Lactobacillus acidophilus* for the prevention of traveler's diarrhea: A randomized, double-blind, controlled study. *Clin Infect Dis* 2006; 43 (9): 1170-5.

Brouwer ML, Wolt-Plompen SA, Dubois AE, van der Heide S, Jansen DF, Hoijer MA et al. No effects of probiotics on atopic dermatitis in infancy: A randomized placebo-controlled trial. *Clin Exp Allergy* 2006; 36 (7): 899-906.

Cardona ME, Norin E, Midtvedt T. B-glucuronidase activity in germ-free, monoassociated and conventional mice. *Microbiol Ecol Health Dis* 2006; 18: 30-1.

Collado MC, Jalonen L, Meriluoto J, Salminen S. Protection mechanism of probiotic combination against human pathogens: In vitro adhesion to human intestinal mucus. *Asia Pacific Journal Of Clinical Nutrition* 2006; 15 (4): 570-5.

De Keersmaecker SC, Braeken K, Verhoeven TL, Perea Velez M, Lebeer S, Vanderleyden J et al. Flow cytometric testing of green fluorescent protein-tagged *Lactobacillus rhamnosus* GG for response to defensins. *Appl Environ Microbiol* 2006a; 72 (7): 4923-30.

De Keersmaecker SC, Verhoeven TL, Desair J, Marchal K, Vanderleyden J, Nagy I. Strong antimicrobial activity of *Lactobacillus rhamnosus* GG against *Salmonella* Typhimurium is due to accumulation of lactic acid. *FEMS Microbiol Lett* 2006b; 259 (1): 89-96.

Ewaschuk JB, Zello GA, Naylor JM. *Lactobacillus* GG does not affect d-lactic acidosis in diarrheic calves, in a clinical setting. *J Vet Intern Med* 2006; 20 (3): 614-9.

Folster-Holst R, Muller F, Schnopp N, Abeck D, Kreiselmaier I, Lenz T et al. Prospective, randomized controlled trial on *Lactobacillus rhamnosus* in infants with moderate to severe atopic dermatitis. *Br J Dermatol* 2006; 155 (6): 1256-61.

Gratz S, Taubel M, Juvonen RO, Viluksela M, Turner PC, Mykkanen H et al. *Lactobacillus rhamnosus* strain GG modulates intestinal absorption, fecal excretion, and toxicity of aflatoxin b(1) in rats. *Appl Environ Microbiol* 2006; 72 (11): 7398-400.

Gueimonde M, Kalliomaki M, Isolauri E, Salminen S. Probiotic intervention in neonates--will permanent colonization ensue? *J Pediatr Gastroenterol Nutr* 2006a; 42 (5): 604-6.

Gueimonde M, Sakata S, Kalliomaki M, Isolauri E, Benno Y, Salminen S. Effect of maternal consumption of *Lactobacillus* GG on transfer and establishment of fecal bifidobacterial microbiota in neonates. *J Pediatr Gastroenterol Nutr* 2006b; 42 (2): 166-70.

Hongisto SM, Paaanen L, Saxelin M, Korpela R. A combination of fibre-rich rye bread and yoghurt containing *Lactobacillus* GG improves bowel function in women with self-reported constipation. *Eur J Clin Nutr* 2006; 60 (3): 319-24.

Hutt P, Shchepetova J, Loivukene K, Kullisaar T, Mikelsaar M. Antagonistic activity of probiotic lactobacilli and bifidobacteria against entero- and uropathogens. *J Appl Microbiol* 2006; 100 (6): 1324-32.

Kawase M, He F, Kubota A, Hata JY, Kobayakawa S, Hiramatsu M. Inhibitory effect of *Lactobacillus gasseri* tmc0356 and *Lactobacillus* GG on enhanced vascular permeability of nasal mucosa in experimental allergic rhinitis of rats. *Biosci Biotechnol Biochem* 2006; 70 (12): 3025-30.

Kim SO, Sheikh HI, Ha SD, Martins A, Reid G. G-csf-mediated inhibition of jnk is a key mechanism for *Lactobacillus rhamnosus*-induced suppression of TNF production in macrophages. *Cell Microbiol* 2006; 8 (12): 1958-71.

Lee HY, Park JH, Seok SH, Baek MW, Kim DJ, Lee KE, Paek KS, Lee Y, Park JH. Human originated bacteria, *Lactobacillus rhamnosus* PL60, produce conjugated linoleic acid and show anti-obesity effects in diet-induced obese mice. *Biochim Biophys Acta* 2006; 1761 (7): 736-44.

Lesniewska V, Rowland I, Cani PD, Neyrinck AM, Delzenne NM, Naughton PJ. Effect on components of the intestinal microflora and plasma neuropeptide levels of feeding *Lactobacillus delbrueckii*, *Bifidobacterium lactis*, and inulin to adult and elderly rats. *Appl Environ Microbiol* 2006; 72 (10): 6533-8.

Makras L, Triantafyllou V, Fayol-Messaoudi D, Adrian T, Zoumpopoulou G, Tsakalidou E et al. Kinetic analysis of the antibacterial activity of probiotic lactobacilli towards *Salmonella enterica* serovar Typhimurium reveals a role for lactic acid and other inhibitory compounds. *Res Microbiol* 2006; 157 (3): 241-7.

Manzoni P, Mostert M, Leonessa ML, Priolo C, Farina D, Monetti C et al. Oral supplementation with *Lactobacillus casei* subspecies *rhamnosus* prevents enteric colonization by *Candida* species in preterm neonates: A randomized study. *Clin Infect Dis* 2006; 42 (12): 1735-42.

Maukonen J, Alakomi H-L, Nohynek L, Hallamaa K, Leppämäki S, Mättö J et al. Suitability of the fluorescent techniques for the enumeration of probiotic bacteria in commercial non-dairy drinks and in pharmaceutical products. *Food Res Int* 2006; 39: 22-32.

Pultz NJ, Vesterlund S, Ouwehand AC, Donskey CJ. Adhesion of vancomycin-resistant *Enterococcus* to human intestinal mucus. *Curr Microbiol* 2006; 52 (3): 221-4.

Rautava S, Arvilommi H, Isolauri E. Specific probiotics in enhancing maturation of IgA responses in formula-fed infants. *Pediatr Res* 2006; 60 (2): 221-4.

Rinne M, Kalliomaki M, Salminen S, Isolauri E. Probiotic intervention in the first months of life: Short-term effects on gastrointestinal symptoms and long-term effects on gut microbiota. *J Pediatr Gastroenterol Nutr* 2006; 43 (2): 200-5.

Roselli M, Finamore A, Britti MS, Mengheri E. Probiotic bacteria *Bifidobacterium animalis* mb5 and *Lactobacillus rhamnosus* GG protect intestinal caco-2 cells from the inflammation-associated response induced by enterotoxigenic *Escherichia coli* k88. *Br J Nutr* 2006; 95 (6): 1177-84.

Ruas-Madiedo P, Gueimonde M, de los Reyes-Gavilan CG, Salminen S. Short communication: Effect of exopolysaccharide isolated from "viili" on the adhesion of probiotics and pathogens to intestinal mucus. *J Dairy Sci* 2006a; 89 (7): 2355-8.

Ruas-Madiedo P, Gueimonde M, Margolles A, de los Reyes-Gavilan CG, Salminen S. Exopolysaccharides produced by probiotic strains modify the adhesion of probiotics and enteropathogens to human intestinal mucus. *J Food Prot* 2006b; 69 (8): 2011-5.

Saarela M, Virkajarvi I, Nohynek L, Vaari A, Matto J. Fibres as carriers for *Lactobacillus rhamnosus* during freeze-drying and storage in apple juice and chocolate-coated breakfast cereals. *Int J Food Microbiol* 2006; 112 (2): 171-8.

Sullivan A, Nord CE. Probiotic lactobacilli and bacteraemia in stockholm. *Scand J Infect Dis* 2006; 38 (5): 327-31.

Szymanski H, Pejcz J, Jawien M, Chmielarczyk A, Strus M, Heczko PB. Treatment of acute infectious diarrhoea in infants and children with a mixture of three *Lactobacillus rhamnosus* strains--a randomized, double-blind, placebo-controlled trial. *Aliment Pharmacol Ther* 2006; 23 (2): 247-53.

Tao Y, Drabik KA, Waypa TS, Musch MW, Alverdy JC, Schneewind O et al. Soluble factors from *Lactobacillus* GG activate mapks and induce cytoprotective heat shock proteins in intestinal epithelial cells. *Am J Physiol Cell Physiol* 2006; 290 (4): C1018-30.

Vancanneyt M, Huys G, Lefebvre K, Vankerckhoven V, Goossens H, Swings J. Intraspecific genotypic characterization of *Lactobacillus rhamnosus* strains intended for probiotic use and isolates of human origin. *Appl Environ Microbiol* 2006; 72 (8): 5376-83.

Vendt N, Grunberg H, Tuure T, Malminiemi O, Wuolijoki E, Tillmann V et al. Growth during the first 6 months of life in infants using formula enriched with *Lactobacillus rhamnosus* GG: Double-blind, randomized trial. *J Hum Nutr Diet* 2006; 19 (1): 51-8.

Vesterlund S, Karp M, Salminen S, Ouwehand AC. *Staphylococcus aureus* adheres to human intestinal mucus but can be displaced by certain lactic acid bacteria. *Microbiology* 2006; 152 (Pt 6): 1819-26.

Wultanska D, Pituch H, Obuch-Woszczatynski P, Meisel-Mikolajczyk F, Luczak M. Influence of selected lactobacillus sp. On clostridium difficile strains with different toxigenicity profile (article in Polish). *Med Dosw Mikrobiol* 2006; 58 (2): 127-33.

Yli-Knuuttila H, Snall J, Kari K, Meurman JH. Colonization of *Lactobacillus rhamnosus* GG in the oral cavity. *Oral Microbiol Immunol* 2006; 21 (2): 129-31.

Zhang L, Li N, des Robert C, Fang M, Liboni K, McMahon R et al. *Lactobacillus rhamnosus* GG decreases lipopolysaccharide-induced systemic inflammation in a gastrostomy-fed infant rat model. *J Pediatr Gastroenterol Nutr* 2006; 42 (5): 545-52.

Zocco MA, dal Verme LZ, Cremonini F, Piscaglia AC, Nista EC, Candelli M et al. Efficacy of *Lactobacillus* GG in maintaining remission of ulcerative colitis. *Aliment Pharmacol Ther* 2006; 23 (11): 1567-74.

- Alamprese C, Foschino R, Rossi M, Pompei C, Corti S. Effects of *Lactobacillus rhamnosus* GG addition in ice cream. *Int J Dairy Technol* 2005; 58 (4): 200-6.
- Ananta E, Voigt D, Zenker M, Heinz V, Knorr D. Cellular injuries upon exposure of *Escherichia coli* and *Lactobacillus rhamnosus* to high-intensity ultrasound. *J Appl Microbiol* 2005; 99 (2): 271-8.
- Banaszkiewicz A, Szajewska H. Ineffectiveness of *Lactobacillus* GG as an adjunct to lactulose for the treatment of constipation in children: A double-blind, placebo-controlled randomized trial. *J Pediatr* 2005; 146 (3): 364-9.
- Bausserman M, Michail S. The use of *Lactobacillus* GG in irritable bowel syndrome in children: A double-blind randomized control trial. *J Pediatr* 2005; 147 (2): 197-201.
- Bousvaros A, Guandalini S, Baldassano RN, Botelho C, Evans J, Ferry GD et al. A randomized, double-blind trial of *Lactobacillus* GG versus placebo in addition to standard maintenance therapy for children with crohn's disease. *Inflamm Bowel Dis* 2005; 11 (9): 833-9.
- Commane DM, Shortt CT, Silvi S, Cresci A, Hughes RM, Rowland IR. Effects of fermentation products of pro- and prebiotics on trans-epithelial electrical resistance in an in vitro model of the colon. *Nutr Cancer* 2005; 51 (1): 102-9.
- Corcoran BM, Stanton C, Fitzgerald GF, Ross RP. Survival of probiotic lactobacilli in acidic environments is enhanced in the presence of metabolizable sugars. *Appl Environ Microbiol* 2005; 71 (6): 3060-7.
- De Groote MA, Frank DN, Dowell E, Glode MP, Pace NR. *Lactobacillus rhamnosus* GG bacteremia associated with probiotic use in a child with short gut syndrome. *Pediatr Infect Dis J* 2005; 24 (3): 278-80.
- De Keersmaecker SC, Marchal K, Verhoeven TL, Engelen K, Vanderleyden J, Detweiler CS. Microarray analysis and motif detection reveal new targets of the *Salmonella enterica* serovar Typhimurium hila regulatory protein, including hila itself. *J Bacteriol* 2005; 187 (13): 4381-91.
- de Vrese M, Rautenberg P, Laue C, Koopmans M, Herremans T, Schrezenmeir J. Probiotic bacteria stimulate virus-specific neutralizing antibodies following a booster polio vaccination. *Eur J Nutr* 2005; 44 (7): 406-13.
- Devillard E, Burton JP, Reid G. Complexity of vaginal microflora as analyzed by PCR denaturing gradient gel electrophoresis in a patient with recurrent bacterial vaginosis. *Infect Dis Obstet Gynecol* 2005; 13 (1): 25-31.
- Di Caro S, Tao H, Grillo A, Elia C, Gasbarrini G, Sepulveda AR et al. Effects of *Lactobacillus* GG on genes expression pattern in small bowel mucosa. *Dig Liver Dis* 2005; 37 (5): 320-9.
- Fayol-Messaoudi D, Berger CN, Coconnier-Polter MH, Lievin-Le Moal V, Servin AL. Ph-, lactic acid-, and non-lactic acid-dependent activities of probiotic lactobacilli against *Salmonella enterica* serovar Typhimurium. *Appl Environ Microbiol* 2005; 71 (10): 6008-13.
- Galpin L, Manary MJ, Fleming K, Ou CN, Ashorn P, Shulman RJ. Effect of *Lactobacillus* GG on intestinal integrity in malawian children at risk of tropical enteropathy. *Am J Clin Nutr* 2005; 82 (5): 1040-5.
- He F, Morita H, Kubota A, Ouwehand AC, Hosoda M, Hiramatsu M et al. Effect of orally administered non-viable lactobacillus cells on murine humoral immune responses. *Microbiol Immunol* 2005; 49 (11): 993-7.

Iliev ID, Kitazawa H, Shimosato T, Katoh S, Morita H, He F et al. Strong immunostimulation in murine immune cells by *Lactobacillus rhamnosus* GG DNA containing novel oligodeoxynucleotide pattern. *Cell Microbiol* 2005; 7 (3): 403-14.

Laitinen K, Kalliomaki M, Poussa T, Lagstrom H, Isolauri E. Evaluation of diet and growth in children with and without atopic eczema: Follow-up study from birth to 4 years. *Br J Nutr* 2005; 94 (4): 565-74.

Lan JG, Cruickshank SM, Singh JC, Farrar M, Lodge JP, Felsburg PJ et al. Different cytokine response of primary colonic epithelial cells to commensal bacteria. *World J Gastroenterol* 2005; 11 (22): 3375-84.

Land MH, Rouster-Stevens K, Woods CR, Cannon ML, Cnota J, Shetty AK. *Lactobacillus* sepsis associated with probiotic therapy. *Pediatrics* 2005; 115 (1): 178-81.

Lavermicocca P, Valerio F, Lonigro SL, De Angelis M, Morelli L, Callegari ML et al. Study of adhesion and survival of lactobacilli and bifidobacteria on table olives with the aim of formulating a new probiotic food. *Appl Environ Microbiol* 2005; 71 (8): 4233-40.

Lee J, Hwang KT, Heo MS, Lee JH, Park KY. Resistance of *Lactobacillus plantarum* KTCC 3099 from kimchi to oxidative stress. *J Med Food* 2005; 8 (3): 299-304.

Luckow T, Sheehan V, Delahunty C, Fitzgerald G. Determining the odor and flavor characteristics of probiotic, health-promoting ingredients and the effects of repeated exposure on consumer acceptance. *J Food Sci* 2005; 70 (1): S53-9.

Mainville I, Arcand Y, Farnworth ER. A dynamic model that simulates the human upper gastrointestinal tract for the study of probiotics. *Int J Food Microbiol* 2005; 99 (3): 287-96.

Meriluoto J, Gueimonde M, Haskard CA, Spoof L, Sjoval O, Salminen S. Removal of the cyanobacterial toxin microcystin-Lr by human probiotics. *Toxicon* 2005; 46 (1): 111-4.

Moreira JL, Mota RM, Horta MF, Teixeira SM, Neumann E, Nicoli JR et al. Identification to the species level of *Lactobacillus* isolated in probiotic prospecting studies of human, animal or food origin by 16s-23s rrna restriction profiling. *BMC Microbiol* 2005; 5 (1): 15.

Petschow BW, Figueroa R, Harris CL, Beck LB, Ziegler E, Goldin B. Effects of feeding an infant formula containing *Lactobacillus* GG on the colonization of the intestine: A dose-response study in healthy infants. *J Clin Gastroenterol* 2005; 39 (9): 786-90.

Piotrowska M, Zakowska Z. The elimination of ochratoxin A by lactic acid bacteria strains. *Pol J Microbiol* 2005; 54 (4): 279-86.

Rinne M, Kalliomaki M, Arvilommi H, Salminen S, Isolauri E. Effect of probiotics and breastfeeding on the bifidobacterium and *Lactobacillus/Enterococcus* microbiota and humoral immune responses. *J Pediatr* 2005; 147 (2): 186-91.

Schillinger U, Guigas C, Holzapfel WH. In vitro adherence and other properties of lactobacilli used in probiotic yoghurt-like products. *International Dairy Journal* 2005; 15 (12): 1289-97.

Succi M, Tremonte P, Reale A, Sorrentino E, Grazia L, Pacifico S et al. Bile salt and acid tolerance of *Lactobacillus rhamnosus* strains isolated from parmigiano reggiano cheese. *FEMS Microbiol Lett* 2005; 244 (1): 129-37.

Van Loo J, Clune Y, Bennett M, Collins JK. The syncan project: Goals, set-up, first results and settings of the human intervention study. *Br J Nutr* 2005; 93 (Suppl 1): S91-8.

Vesterlund S, Paltta J, Karp M, Ouwehand AC. Adhesion of bacteria to resected human colonic tissue: Quantitative analysis of bacterial adhesion and viability. *Res Microbiol* 2005a; 156 (2): 238-44.

Vesterlund S, Paltta J, Karp M, Ouwehand AC. Measurement of bacterial adhesion-in vitro evaluation of different methods. *J Microbiol Methods* 2005b; 60 (2): 225-33.

Westermarck E, Skrzypczak T, Harmoinen J, Steiner JM, Ruau CG, Williams DA et al. Tylosin-responsive chronic diarrhea in dogs. *J Vet Intern Med* 2005; 19 (2): 177-86.

Viljanen M, Kuitunen M, Haahtela T, Juntunen-Backman K, Korpela R, Savilahti E. Probiotic effects on faecal inflammatory markers and on faecal IgA in food allergic atopic eczema/dermatitis syndrome infants. *Pediatr Allergy Immunol* 2005a; 16 (1): 65-71.

Viljanen M, Pohjavuori E, Haahtela T, Korpela R, Kuitunen M, Sarnesto A et al. Induction of inflammation as a possible mechanism of probiotic effect in atopic eczema-dermatitis syndrome. *J Allergy Clin Immunol* 2005b; 115 (6): 1254-9.

Viljanen M, Savilahti E, Haahtela T, Juntunen-Backman K, Korpela R, Poussa T et al. Probiotics in the treatment of atopic eczema/dermatitis syndrome in infants: A double-blind placebo-controlled trial. *Allergy* 2005c; 60 (4): 494-500.

Zhang L, Li N, Caicedo R, Neu J. Alive and dead *Lactobacillus rhamnosus* GG decrease tumor necrosis factor-alpha-induced interleukin-8 production in caco-2 cells. *J Nutr* 2005; 135 (7): 1752-6.

Zhou JS, Pillidge CJ, Gopal PK, Gill HS. Antibiotic susceptibility profiles of new probiotic *Lactobacillus* and *Bifidobacterium* strains. *Int J Food Microbiol* 2005; 98 (2): 211-7.

2004 (39)

Ananta E, Birkeland S-E, Corcoran B, Fitzgerald G, Hinz S, Klijn A et al. Processing effects on the nutritional advances of probiotics and probiotics. *Microbial Ecol Health Dis* 2004; 16: 113-24.

Ananta E, Knorr D. Evidence on the role of protein biosynthesis in the induction of heat tolerance of *Lactobacillus rhamnosus* GG by pressure pre-treatment. *Int J Food Microbiol* 2004; 96 (3): 307-13.

Avonts L, Van Uytven E, De Vuyst L. Cell growth and bacteriocin production of probiotic *Lactobacillus* strains in different media. *Int Dairy J* 2004; 14: 947-55.

Baharav E, Mor F, Halpern M, Weinberger A. *Lactobacillus* GG bacteria ameliorate arthritis in Lewis rats. *J Nutr* 2004; 134 (8): 1964-9.

Bruzzese E, Raia V, Gaudiello G, Polito G, Buccigrossi V, Formicola V et al. Intestinal inflammation is a frequent feature of cystic fibrosis and is reduced by probiotic administration. *Aliment Pharmacol Ther* 2004; 20 (7): 813-9.

Choi CH. Prophylactic effect of *Lactobacillus* GG in animal colitis and its effect on cytokine secretion and mucin gene expressions (article in Korean). *Korean J Gastroenterol* 2004; 44 (1): 50-2.

Coeuret V, Gueguen M, Vernoux JP. Numbers and strains of lactobacilli in some probiotic products. *Int J Food Microbiol* 2004; 97 (2): 147-56.

Corcoran BM, Ross RP, Fitzgerald GF, Stanton C. Comparative survival of probiotic lactobacilli spray-dried in the presence of prebiotic substances. *J Appl Microbiol* 2004; 96 (5): 1024-39.

Edalat M, Mannervik B, Axelsson LG. Selective expression of detoxifying glutathione transferases in mouse colon: Effect of experimental colitis and the presence of bacteria. *Histochem Cell Biol* 2004; 122 (2): 151-9.

El-Nezami H, Polychronaki N, Lee YK, Haskard C, Juvonen R, Salminen S et al. Chemical moieties and interactions involved in the binding of zearalenone to the surface of *Lactobacillus rhamnosus* strains GG. *J Agric Food Chem* 2004; 52 (14): 4577-81.

Ewaschuk JB, Naylor JM, Chirino-Trejo M, Zello GA. *Lactobacillus rhamnosus* strain GG is a potential probiotic for calves. *Can J Vet Res* 2004; 68 (4): 249-53.

Gerbitz A, Schultz M, Wilke A, Linde HJ, Scholmerich J, Andreesen R et al. Probiotic effects on experimental graft-versus-host disease: Let them eat yogurt. *Blood* 2004; 103 (11): 4365-7.

Gosselink MP, Schouten WR, van Lieshout LM, Hop WC, Laman JD, Ruseler-van Embden JG. Delay of the first onset of pouchitis by oral intake of the probiotic strain *Lactobacillus rhamnosus* GG. *Dis Colon Rectum* 2004; 47 (6): 876-84.

Gratz S, Mykkanen H, Ouwehand AC, Juvonen R, Salminen S, El-Nezami H. Intestinal mucus alters the ability of probiotic bacteria to bind aflatoxin b1 in vitro. *Appl Environ Microbiol* 2004; 70 (10): 6306-8.

Gray HC, Foy TM, Becker BA, Knutsen AP. Rice-induced enterocolitis in an infant: Th1/th2 cellular hypersensitivity and absent IgE reactivity. *Ann Allergy Asthma Immunol* 2004; 93 (6): 601-5.

Helland MH, Wicklund T, Narvhus JA. Growth and metabolism of selected strains of probiotic bacteria in milk- and water-based cereal puddings. *Int Dairy J* 2004a; 14: 957-65.

Helland MH, Wicklund T, Narvhus JA. Growth and metabolism of selected strains of probiotic bacteria, in maize porridge with added malted barley. *Int J Food Microbiol* 2004b; 91 (3): 305-13.

Ibrahim F, Ouwehand AC, Salminen SJ. Effect of temperature on in vitro adhesion of potential fish probiotics. *Microb Ecol Health Dis* 2004; 16: 222-7.

Klinder A, Forster A, Caderni G, Femia AP, Pool-Zobel BL. Fecal water genotoxicity is predictive of tumor-preventive activities by inulin-like oligofructoses, probiotics (*Lactobacillus rhamnosus* and *Bifidobacterium lactis*), and their synbiotic combination. *Nutr Cancer* 2004; 49 (2): 144-55.

Korhonen R, Kosonen O, Korpela R, Moilanen E. The expression of cox2 protein induced by *Lactobacillus rhamnosus* GG, endotoxin and lipoteichoic acid in t84 epithelial cells. *Lett Appl Microbiol* 2004; 39 (1): 19-24.

Kunz AN, Noel JM, Fairchok MP. Two cases of *Lactobacillus* bacteremia during probiotic treatment of short gut syndrome. *J Pediatr Gastroenterol Nutr* 2004; 38 (4): 457-8.

Lahtinen SJ, Haskard CA, Ouwehand AC, Salminen SJ, Ahokas JT. Binding of aflatoxin b1 to cell wall components of *Lactobacillus rhamnosus* strain GG. *Food Addit Contam* 2004; 21 (2): 158-64.

Moon G, Myung SJ, Jeong JY, Yang SK, Cho YK, Lee SM et al. Prophylactic effect of *Lactobacillus* GG in animal colitis and its effect on cytokine secretion and mucin gene expressions (article in Korean). *Korean J Gastroenterol* 2004; 43 (4): 234-45.

Ouwehand AC, Parhiala R, Salminen S, Rantala A, Huhtinen H, Sarparanta H et al. Influence of the endogenous mucousal microbiota on the adhesion of probiotic bacteria *in vitro*. *Microbial Ecol. Health Dis.* 2004a; 16: 202-4.

Ouwehand AC, Saxelin M, Salminen S. Phenotypic differences between commercial *Lactobacillus rhamnosus* GG and *L. rhamnosus* strains recovered from blood. *Clin Infect Dis* 2004b; 39 (12): 1858-60.

Pickerd N, Tuthill D. Resolution of cryptosporidiosis with probiotic treatment. *Postgrad Med J* 2004; 80 (940): 112-3.

Pohjavuori E, Viljanen M, Korpela R, Kuitunen M, Tiittanen M, Vaarala O et al. *Lactobacillus* GG effect in increasing INF-gamma production in infants with cow's milk allergy. *J Allergy Clin Immunol* 2004; 114 (1): 131-6.

Roller M, Pietro Femia A, Caderni G, Rechkemmer G, Watzl B. Intestinal immunity of rats with colon cancer is modulated by oligofructose-enriched inulin combined with *Lactobacillus rhamnosus* and *Bifidobacterium lactis*. *Br J Nutr* 2004a; 92 (6): 931-8.

Roller M, Rechkemmer G, Watzl B. Prebiotic inulin enriched with oligofructose in combination with the probiotics *Lactobacillus rhamnosus* and *Bifidobacterium lactis* modulates intestinal immune functions in rats. *J Nutr* 2004b; 134 (1): 153-6.

Salazar-Lindo E, Miranda-Langschwager P, Campos-Sanchez M, Chea-Woo E, Sack RB. *Lactobacillus casei* strain GG in the treatment of infants with acute watery diarrhea: A randomized, double-blind, placebo controlled clinical trial. *BMC Pediatr* 2004; 4: 18.

Salminen MK, Rautelin H, Tynkkynen S, Poussa T, Saxelin M, Valtonen V et al. *Lactobacillus* bacteremia, clinical significance, and patient outcome, with special focus on probiotic *L. rhamnosus* GG. *Clin Infect Dis* 2004a; 38 (1): 62-9.

Salminen MK, Tynkkynen S, Rautelin H, Poussa T, Saxelin M, Ristola M et al. The efficacy and safety of probiotic *Lactobacillus rhamnosus* GG on prolonged, noninfectious diarrhea in HIV patients on antiretroviral therapy: A randomized, placebo-controlled, crossover study. *HIV Clin Trials* 2004b; 5 (4): 183-91.

Schultz M, Gottl C, Young RJ, Iwen P, Vanderhoof JA. Administration of oral probiotic bacteria to pregnant women causes temporary infantile colonization. *J Pediatr Gastroenterol Nutr* 2004a; 38 (3): 293-7.

Schultz M, Timmer A, Herfarth HH, Sartor RB, Vanderhoof JA, Rath HC. *Lactobacillus* GG in inducing and maintaining remission of crohn's disease. *BMC Gastroenterol* 2004b; 4: 5.

Sherman MP, Bennett SH, Hwang FF, Yu C. Neonatal small bowel epithelia: Enhancing anti-bacterial defense with lactoferrin and *Lactobacillus* GG. *Biometals* 2004; 17 (3): 285-9.

Tabuchi M, Tamura A, Yamada N, Ishida T, Hosoda M, Hosono A. Hypocholesterolemic effects of viable and heat-sterilized cells of *Lactobacillus* GG in rats fed a high-cholesterol diet. *Milchwissenschaft* 2004; 59 (5/6): 249-53.

Turner MS, Hafner LM, Walsh T, Giffard PM. Identification and characterization of the novel lysm domain-containing surface protein sep from *Lactobacillus fermentum* br11 and its use as a peptide fusion partner in *Lactobacillus* and *Lactococcus*. *Appl Environ Microbiol* 2004; 70 (6): 3673-80.

Valerio F, Lavermicocca P, Pascale M, Visconti A. Production of phenyllactic acid by lactic acid bacteria: An approach to the selection of strains contributing to food quality and preservation. *FEMS Microbiol Lett* 2004; 233 (2): 289-95.

Veckman V, Miettinen M, Pirhonen J, Siren J, Matikainen S, Julkunen I. *Streptococcus pyogenes* and *Lactobacillus rhamnosus* differentially induce maturation and production of th1-type cytokines and chemokines in human monocyte-derived dendritic cells. *J Leukoc Biol* 2004; 75 (5): 764-71.

2003 (37)

Agarwal R, Sharma N, Chaudhry R, Deorari A, Paul VK, Gewolb IH et al. Effects of oral *Lactobacillus* GG on enteric microflora in low-birth-weight neonates. *J Pediatr Gastroenterol Nutr* 2003; 36 (3): 397-402.

Asahara T, Takahashi M, Nomoto K, Takayama H, Onoue M, Morotomi M et al. Assessment of safety of *Lactobacillus* strains based on resistance to host innate defense mechanisms. *Clin Diagn Lab Immunol* 2003; 10 (1): 169-73.

Brandt K, Alatossava T. Specific identification of certain probiotic *Lactobacillus rhamnosus* strains with PCR primers based on phage-related sequences. *Int J Food Microbiol* 2003; 84 (2): 189-96.

Caderni G, Femia AP, Giannini A, Favuzza A, Luceri C, Salvadori M et al. Identification of mucin-depleted foci in the unsectioned colon of azoxymethane-treated rats: Correlation with carcinogenesis. *Cancer Res* 2003; 63 (10): 2388-92.

Colodner R, Edelstein H, Chazan B, Raz R. Vaginal colonization by orally administered *Lactobacillus rhamnosus* GG. *Isr Med Assoc J* 2003; 5 (11): 767-9.

Costa-Ribeiro H, Ribeiro TC, Mattos AP, Valois SS, Neri DA, Almeida P et al. Limitations of probiotic therapy in acute, severe dehydrating diarrhea. *J Pediatr Gastroenterol Nutr* 2003; 36 (1): 112-5.

Crittenden RG, Martinez NR, Playne MJ. Synthesis and utilisation of folate by yoghurt starter cultures and probiotic bacteria. *Int J Food Microbiol* 2003; 80 (3): 217-22.

Dieleman LA, Goerres MS, Arends A, Sprengers D, Torrice C, Hoentjen F et al. *Lactobacillus* GG prevents recurrence of colitis in hla-b27 transgenic rats after antibiotic treatment. *Gut* 2003; 52 (3): 370-6.

Gluck U, Gebbers JO. Ingested probiotics reduce nasal colonization with pathogenic bacteria (*Staphylococcus aureus*, *Streptococcus pneumoniae*, and beta-hemolytic streptococci). *Am J Clin Nutr* 2003; 77 (2): 517-20.

Halttunen T, Kankaanpää P, Tahvonen R, Salminen S, Ouwehand AC. Cadmium removal by lactic acid bacteria. *Bioscience Microflora* 2003; 22 (3): 93-7.

Hatakka K, Martio J, Korpela M, Herranen M, Poussa T, Laasanen T et al. Effects of probiotic therapy on the activity and activation of mild rheumatoid arthritis--a pilot study. *Scand J Rheumatol* 2003; 32 (4): 211-5.

Hirano J, Yoshida T, Sugiyama T, Koide N, Mori I, Yokochi T. The effect of *Lactobacillus rhamnosus* on enterohemorrhagic *Escherichia coli* infection of human intestinal cells in vitro. *Microbiol Immunol* 2003; 47 (6): 405-9.

Kalliomaki M, Salminen S, Poussa T, Arvilommi H, Isolauri E. Probiotics and prevention of atopic disease: 4-year follow-up of a randomised placebo-controlled trial. *Lancet* 2003; 361 (9372): 1869-71.

Kirjavainen PV, Salminen SJ, Isolauri E. Probiotic bacteria in the management of atopic disease: Underscoring the importance of viability. *J Pediatr Gastroenterol Nutr* 2003; 36 (2): 223-7.

Kontiokari T, Laitinen J, Jarvi L, Pokka T, Sundqvist K, Uhari M. Dietary factors protecting women from urinary tract infection. *Am J Clin Nutr* 2003; 77 (3): 600-4.

Kuisma J, Mentula S, Jarvinen H, Kahri A, Saxelin M, Farkkila M. Effect of *Lactobacillus rhamnosus* GG on ileal pouch inflammation and microbial flora. *Aliment Pharmacol Ther* 2003; 17 (4): 509-15.

Lee YK, El-Nezami H, Haskard CA, Gratz S, Puong KY, Salminen S et al. Kinetics of adsorption and desorption of aflatoxin b1 by viable and nonviable bacteria. *J Food Prot* 2003a; 66 (3): 426-30.

Lee YK, Puong KY, Ouwehand AC, Salminen S. Displacement of bacterial pathogens from mucus and caco-2 cell surface by lactobacilli. *J Med Microbiol* 2003b; 52 (Pt 10): 925-30.

Mack DR, Ahrne S, Hyde L, Wei S, Hollingsworth MA. Extracellular muc3 mucin secretion follows adherence of *Lactobacillus* strains to intestinal epithelial cells in vitro. *Gut* 2003a; 52 (6): 827-33.

Mack DR, McDonald TL, Larson MA, Wei S, Weber A. The conserved tflk motif of mammary-associated serum amyloid a3 is responsible for up-regulation of intestinal muc3 mucin expression in vitro. *Pediatr Res* 2003b; 53 (1): 137-42.

Marini A, Negretti F, Boehm G, Li Destri M, Clerici-Bagozzi D, Mosca F et al. Pro- and pre-biotics administration in preterm infants: Colonization and influence on faecal flora. *Acta Paediatr Suppl* 2003; 91 (441): 80-1.

Miceli E, Missanelli A, Mazzocchi S, di Stefano M, Gorazza GR. Efficacia del *Lactobacillus* GG nel trattamento del gonfiore addominale funzionale (article in Italian). *Argomenti di Gastroenterologia Clinica* 2003; 16: 71-5.

Nikoskelainen S, Ouwehand AC, Bylund G, Salminen S, Lilius EM. Immune enhancement in rainbow trout (*oncorhynchus mykiss*) by potential probiotic bacteria (*Lactobacillus rhamnosus*). *Fish Shellfish Immunol* 2003; 15 (5): 443-52.

Ostlie HM, Helland MH, Narvhus JA. Growth and metabolism of selected strains of probiotic bacteria in milk. *Int J Food Microbiol* 2003; 87 (1-2): 17-27.

Ouwehand AC, Salminen S, Roberts PJ, Ovaska J, Salminen E. Disease-dependent adhesion of lactic acid bacteria to the human intestinal mucosa. *Clin Diagn Lab Immunol* 2003; 10 (4): 643-6.

Pena JA, Versalovic J. *Lactobacillus rhamnosus* GG decreases TNF-alpha production in lipopolysaccharide-activated murine macrophages by a contact-independent mechanism. *Cell Microbiol* 2003; 5 (4): 277-85.

Rinkinen M, Jalava K, Westermarck E, Salminen S, Ouwehand AC. Interaction between probiotic lactic acid bacteria and canine enteric pathogens: A risk factor for intestinal *Enterococcus faecium* colonization? *Vet Microbiol* 2003a; 92 (1-2): 111-9.

Rinkinen M, Westermarck E, Salminen S, Ouwehand AC. Absence of host specificity for in vitro adhesion of probiotic lactic acid bacteria to intestinal mucus. *Vet Microbiol* 2003b; 97 (1-2): 55-61.

Schultz M, Linde HJ, Lehn N, Zimmermann K, Grossmann J, Falk W et al. Immunomodulatory consequences of oral administration of *Lactobacillus rhamnosus* strain GG in healthy volunteers. *J Dairy Res* 2003; 70 (2): 165-73.

Styriak I, Nemcova R, Chang YH, Ljungh A. Binding of extracellular matrix molecules by probiotic bacteria. *Lett Appl Microbiol* 2003; 37 (4): 329-33.

Tabuchi M, Ozaki M, Tamura A, Yamada N, Ishida T, Hosoda M et al. Antidiabetic effect of *Lactobacillus* GG in streptozotocin-induced diabetic rats. *Biosci Biotechnol Biochem* 2003; 67 (6): 1421-4.

Temmerman R, Pot B, Huys G, Swings J. Identification and antibiotic susceptibility of bacterial isolates from probiotic products. *Int J Food Microbiol* 2003a; 81 (1): 1-10.

Temmerman R, Scheirlinck I, Huys G, Swings J. Culture-independent analysis of probiotic products by denaturing gradient gel electrophoresis. *Appl Environ Microbiol* 2003b; 69 (1): 220-6.

Wallace TD, Bradley S, Buckley ND, Green-Johnson JM. Interactions of lactic acid bacteria with human intestinal epithelial cells: Effects on cytokine production. *J Food Prot* 2003; 66 (3): 466-72.

Veckman V, Miettinen M, Matikainen S, Lande R, Giacomini E, Coccia EM et al. Lactobacilli and streptococci induce inflammatory chemokine production in human macrophages that stimulates th1 cell chemotaxis. *J Leukoc Biol* 2003; 74 (3): 395-402.

Weese JS, Anderson ME, Lowe A, Monteith GJ. Preliminary investigation of the probiotic potential of *Lactobacillus rhamnosus* strain GG in horses: Fecal recovery following oral administration and safety. *Can Vet J* 2003; 44 (4): 299-302.

Wiest R, Chen F, Cadelina G, Groszmann RJ, Garcia-Tsao G. Effect of *Lactobacillus*-fermented diets on bacterial translocation and intestinal flora in experimental prehepatic portal hypertension. *Dig Dis Sci* 2003; 48 (6): 1136-41.

2002 (38)

Ahola AJ, Yli-Knuuttila H, Suomalainen T, Poussa T, Ahlstrom A, Meurman JH et al. Short-term consumption of probiotic-containing cheese and its effect on dental caries risk factors. *Arch Oral Biol* 2002; 47 (11): 799-804.

Banasaz M, Norin E, Holma R, Midtvedt T. Increased enterocyte production in gnotobiotic rats mono-associated with *Lactobacillus rhamnosus* GG. *Appl Environ Microbiol* 2002; 68 (6): 3031-4.

Bauer TM, Fernandez J, Navasa M, Vila J, Rodes J. Failure of *Lactobacillus* spp. to prevent bacterial translocation in a rat model of experimental cirrhosis. *J Hepatol* 2002; 36 (4): 501-6.

Cardona ME, de V. Vanay V, Midtvedt T, Norin E. Effect of probiotics in five biochemical microflora-associated characteristics, *in vitro* and *in vivo*. *Scand J Nutr* 2002; 46 (2): 73-9.

Cremonini F, Di Caro S, Covino M, Armuzzi A, Gabrielli M, Santarelli L et al. Effect of different probiotic preparations on anti-*Helicobacter pylori* therapy-related side effects: A parallel group, triple blind, placebo-controlled study. *Am J Gastroenterol* 2002; 97 (11): 2744-9.

Dani C, Biadaioli R, Bertini G, Martelli E, Rubaltelli FF. Probiotics feeding in prevention of urinary tract infection, bacterial sepsis and necrotizing enterocolitis in preterm infants. A prospective double-blind study. *Biol Neonate* 2002; 82 (2): 103-8.

De Léseleuc L, Chabot S, Cloutier D, Roy D, Lacroix M, Oth D. Quantitative aspects in pro-inflammatory cytokines and gamma interferon (ifn-g) production capacities among various lactic acid bacteria (lab). *Milchwissenschaft* 2002; 57 (6): 316-9.

El-Nezami H, Polychronaki N, Salminen S, Mykkanen H. Binding rather than metabolism may explain the interaction of two food-grade *Lactobacillus* strains with zearalenone and its derivative (')alpha-earalenol. *Appl Environ Microbiol* 2002a; 68 (7): 3545-9.

El-Nezami HS, Chrevatidis A, Auriola S, Salminen S, Mykkanen H. Removal of common fusarium toxins *in vitro* by strains of *Lactobacillus* and *Propionibacterium*. *Food Addit Contam* 2002b; 19 (7): 680-6.

Femia AP, Luceri C, Dolara P, Giannini A, Biggeri A, Salvadori M et al. Antitumorigenic activity of the prebiotic inulin enriched with oligofructose in combination with the probiotics *Lactobacillus rhamnosus* and *Bifidobacterium lactis* on azoxymethane-induced colon carcinogenesis in rats. *Carcinogenesis* 2002; 23 (11): 1953-60.

Gardiner GE, Heinemann C, Bruce AW, Beuerman D, Reid G. Persistence of *Lactobacillus fermentum* RC-14 and *Lactobacillus rhamnosus* GR-1 but not *L. rhamnosus* GG in the human vagina as demonstrated by randomly amplified polymorphic DNA. *Clin Diagn Lab Immunol* 2002; 9 (1): 92-6.

Helin T, Haahtela S, Haahtela T. No effect of oral treatment with an intestinal bacterial strain, *Lactobacillus rhamnosus* (ATCC 53103), on birch-pollen allergy: A placebo-controlled double-blind study. *Allergy* 2002; 57 (3): 243-6.

Jasinski C, Tanzi MN, Schelotto F, Varela G, Zanetta E, Acuña AM et al. Efficacy of *Lactobacillus* GG in oral rehydration solution (article in Spanish). *Pediatríka* 2002; 22 (7): 231-43.

Kankaanpää PE, Yang B, Kallio HP, Isolauri E, Salminen SJ. Influence of probiotic supplemented infant formula on composition of plasma lipids in atopic infants. *J Nutr Biochem* 2002; 13 (6): 364-9.

Korhonen R, Korpela R, Moilanen E. Signalling mechanisms involved in the induction of inducible nitric oxide synthase by *Lactobacillus rhamnosus* GG, endotoxin, and lipoteichoic acid. *Inflammation* 2002; 26 (5): 207-14.

Lahtinen S, Saarinen NM, Ämmälä J, Mäkelä SI, Salminen S, Ouwehand AC. Interactions between lignans and probiotics. *Microbiol Ecol Health Dis* 2002; 14: 106-9.

Lammers KM, Helwig U, Swennen E, Rizzello F, Venturi A, Caramelli E et al. Effect of probiotic strains on interleukin 8 production by ht29/19a cells. *Am J Gastroenterol* 2002; 97 (5): 1182-6.

Landersjö C, Yang Z, Huttunen E, Widmalm G. Structural studies of the exopolysaccharide produced by *Lactobacillus rhamnosus* strain GG (ATCC 53103). *Biomacromolecules* 2002; 3 (4): 880-4.

Lee YK, Puong KY. Competition for adhesion between probiotics and human gastrointestinal pathogens in the presence of carbohydrate. *Br J Nutr* 2002; 88 Suppl 1: S101-8.

Lim BK, Mahendran R, Lee YK, Bay BH. Chemopreventive effect of *Lactobacillus rhamnosus* on growth of a subcutaneously implanted bladder cancer cell line in the mouse. *Jpn J Cancer Res* 2002; 93 (1): 36-41.

Mastretta E, Longo P, Laccisaglia A, Balbo L, Russo R, Mazzaccara A et al. Effect of *Lactobacillus* GG and breast-feeding in the prevention of rotavirus nosocomial infection. *J Pediatr Gastroenterol Nutr* 2002; 35 (4): 527-31.

Mattar AF, Teitelbaum DH, Drongowski RA, Yongyi F, Harmon CM, Coran AG. Probiotics up-regulate muc-2 mucin gene expression in a caco-2 cell-culture model. *Pediatr Surg Int* 2002; 18 (7): 586-90.

Mirasoli M, Roda A, Montagnani M, Azzaroli F, Roda E. Cholic acid metabolism in human fecal cultures during diet supplementation with *Lactobacillus rhamnosus* GG (article in Italian). *Minerva Gastroenterol Dietol* 2002; 48 (1): 45-9.

Morita H, He F, Fuse T, Ouwehand AC, Hashimoto H, Hosoda M et al. Adhesion of lactic acid bacteria to caco-2 cells and their effect on cytokine secretion. *Microbiol Immunol* 2002; 46 (4): 293-7.

Ouwehand AC, Salminen S, Tolkko S, Roberts PJ, Ovaska J, Salminen E. Dependent adhesion of lactic acid bacteria to colonic tissue in vitro. *Microecology and Therapy* 2002a; 29: 95-102.

Ouwehand AC, Salminen S, Tölkö S, Roberts P, Ovaska J, Salminen E. Recent human colonic tissue: New model for characterizing adhesion of lactic acid bacteria. *Clin Diagn Lab Immunol* 2002b; 9 (1): 184-6.

Prantera C, Scribano ML, Falasco G, Andreoli A, Luzi C. Ineffectiveness of probiotics in preventing recurrence after curative resection for crohn's disease: A randomised controlled trial with *Lactobacillus* GG. *Gut* 2002; 51 (3): 405-9.

Rautava S, Kalliomaki M, Isolauri E. Probiotics during pregnancy and breast-feeding might confer immunomodulatory protection against atopic disease in the infant. *J Allergy Clin Immunol* 2002; 109 (1 Pt 1): 119-21.

Salminen MK, Tynkkynen S, Rautelin H, Saxelin M, Vaara M, Ruutu P et al. *Lactobacillus* bacteremia during a rapid increase in probiotic use of *Lactobacillus rhamnosus* GG in Finland. *Clin Infect Dis* 2002; 35 (10): 1155-60.

Seow SW, Rahmat JN, Mohamed AA, Mahendran R, Lee YK, Bay BH. *Lactobacillus* species is more cytotoxic to human bladder cancer cells than mycobacterium bovis (bacillus calmette-guerin). *J Urol* 2002; 168 (5): 2236-9.

Shibolet O, Karmeli F, Eliakim R, Swennen E, Brigidi P, Gionchetti P et al. Variable response to probiotics in two models of experimental colitis in rats. *Inflamm Bowel Dis* 2002; 8 (6): 399-406.

Turbic A, Ahokas JT, Haskard CA. Selective in vitro binding of dietary mutagens, individually or in combination, by lactic acid bacteria. *Food Addit Contam* 2002; 19 (2): 144-52.

Vandenplas Y. No effect of oral treatment with an intestinal bacterial strain, *Lactobacillus rhamnosus* (ATCC 53103), on birch-pollen allergy: A placebo-controlled double-blind study. *J Pediatr Gastroenterol Nutr* 2002; 35 (4): 587-8.

Weese JS, Anderson ME. Preliminary evaluation of *Lactobacillus rhamnosus* strain GG, a potential probiotic in dogs. *Can Vet J* 2002; 43 (10): 771-4.

Wei H, Loimaranta V, Tenovuo J, Rokka S, Syvaoja EL, Korhonen H et al. Stability and activity of specific antibodies against streptococcus mutans and streptococcus sobrinus in bovine milk fermented with *Lactobacillus rhamnosus* strain GG or treated at ultra-high temperature. *Oral Microbiol Immunol* 2002a; 17 (1): 9-15.

Wei H, Marnila P, Korhonen H. Effects of anti-caries antibodies on *Lactobacillus* GG in its fermentation and storage periods. *Biomed Environ Sci* 2002b; 15 (2): 153-65.

Yan F, Polk DB. Probiotic bacterium prevents cytokine-induced apoptosis in intestinal epithelial cells. *J Biol Chem* 2002; 277 (52): 50959-65.

Yeung PSM, Sanders ME, Kitts CL, Cano R, Tong PS. Species-specific identification of commercial probiotic strains. *J Dairy Sci* 2002; 85 (5): 1039-51.

2001 (31)

Adawi D, Ahrne S, Molin G. Effects of different probiotic strains of *Lactobacillus* and *Bifidobacterium* on bacterial translocation and liver injury in an acute liver injury model. *Int J Food Microbiol* 2001; 70 (3): 213-20.

Apostolou E, Kirjavainen PV, Saxelin M, Rautelin H, Valtonen V, Salminen SJ et al. Good adhesion properties of probiotics: A potential risk for bacteremia? *FEMS Immunol Med Microbiol* 2001a; 31: 35-9.

Apostolou E, Peltö L, Kirjavainen PV, Isolauri E, Salminen SJ, Gibson GR. Differences in the gut bacterial flora of healthy and milk-hypersensitive adults, as measured by fluorescence in situ hybridization. *FEMS Immunol Med Microbiol* 2001b; 30 (3): 217-21.

Armuzzi A, Cremonini F, Bartolozzi F, Canducci F, Candelli M, Ojetti V et al. The effect of oral administration of *Lactobacillus* GG on antibiotic-associated gastrointestinal side-effects during helicobacter pylori eradication therapy. *Aliment Pharmacol Ther* 2001a; 15 (2): 163-9.

- Armuzzi A, Cremonini F, Ojetto V, Bartolozzi F, Canducci F, Candelli M et al. Effect of *Lactobacillus* GG supplementation on antibiotic-associated gastrointestinal side effects during *Helicobacter pylori* eradication therapy: A pilot study. *Digestion* 2001b; 63 (1): 1-7.
- Brandt K, Tilsala-Timisjärvi A, Alatossava T. Phage-related DNA polymorphism in dairy and probiotic *Lactobacillus*. *Micron* 2001; 32 (59-65).
- Cardona ME, Midtvedt T, Norin E. Probiotics in gnotobiotic mice: Short-chain fatty acids production *in vitro* and *in vivo*. *Scand J Lab Anim Sci* 2001; 28 (2): 75-84.
- Charteris WP, Kelly PM, Morelli L, Collins JK. Gradient diffusion antibiotic susceptibility testing of potentially probiotic lactobacilli. *J Food Prot* 2001a; 64 (12): 2007-14.
- Charteris WP, Kelly PM, Morelli L, Collins JK. Quality control *Lactobacillus* strains for use with the api 50ch and api zym systems at 37 degrees c. *J Basic Microbiol* 2001b; 41 (5): 241-51.
- Elmadfa I, Heinzle C, Majchrzak D, Foissy H. Influence of a probiotic yoghurt on the status of vitamins b(1), b(2) and b(6) in the healthy adult human. *Ann Nutr Metab* 2001; 45 (1): 13-8.
- Erkkila S, Suihko ML, Eerola S, Petaja E, Mattila-Sandholm T. Dry sausage fermented by *Lactobacillus rhamnosus* strains. *Int J Food Microbiol* 2001; 64 (1-2): 205-10.
- Gavazzi C, Stacchiotti S, Cavalletti R, Lodi R. Confusion after antibiotics. *Lancet* 2001; 357 (9266): 1410.
- Gopal PK, Prasad J, Smart J, Gill HS. In vitro adherence properties of *Lactobacillus rhamnosus* dr20 and *Bifidobacterium lactis* dr10 strains and their antagonistic activity against an enterotoxigenic *Escherichia coli*. *Int J Food Microbiol* 2001; 67 (3): 207-16.
- Gotteland M, Cruchet S, Verbeke S. Effect of *Lactobacillus* ingestion on the gastrointestinal mucosal barrier alterations induced by indometacin in humans. *Aliment Pharmacol Ther* 2001; 15 (1): 11-7.
- Haskard CA, El-Nezami HS, Kankaanpää PE, Salminen S, Ahokas JT. Surface binding of aflatoxin b(1) by lactic acid bacteria. *Appl Environ Microbiol* 2001; 67 (7): 3086-91.
- Hatakka K, Savilahti E, Ponka A, Meurman JH, Poussa T, Nase L et al. Effect of long term consumption of probiotic milk on infections in children attending day care centres: Double blind, randomised trial. *BMJ* 2001; 322 (7298): 1327-9.
- Holma R, Salmenperä P, Lohi J, Vapaatalo H, Korpela R. Effects of *Lactobacillus rhamnosus* GG and *Lactobacillus reuteri* r2lc on acetic acid-induced colitis in rats. *Scand J Gastroenterol* 2001; 36 (6): 630-5.
- Juntunen M, Kirjavainen PV, Ouwehand AC, Salminen SJ, Isolauri E. Adherence of probiotic bacteria to human intestinal mucus in healthy infants and during rotavirus infection. *Clin Diagn Lab Immunol* 2001; 8 (2): 293-6.
- Kalliomäki M, Salminen S, Arvilommi H, Kero P, Koskinen P, Isolauri E. Probiotics in primary prevention of atopic disease: A randomised placebo-controlled trial. *Lancet* 2001; 357 (9262): 1076-9.
- Kankaanpää PE, Salminen SJ, Isolauri E, Lee YK. The influence of polyunsaturated fatty acids on probiotic growth and adhesion. *FEMS Microbiol Lett* 2001; 194 (2): 149-53.

Kontiokari T, Sundqvist K, Nuutinen M, Pokka T, Koskela M, Uhari M. Randomised trial of cranberry-lingonberry juice and *Lactobacillus* GG drink for the prevention of urinary tract infections in women. *BMJ* 2001; 322 (7302): 1571.

Korhonen R, Korpela R, Saxelin M, Maki M, Kankaanranta H, Moilanen E. Induction of nitric oxide synthesis by probiotic *Lactobacillus rhamnosus* GG in j774 macrophages and human t84 intestinal epithelial cells. *Inflammation* 2001; 25 (4): 223-32.

Mattar AF, Drongowski RA, Coran AG, Harmon CM. Effect of probiotics on enterocyte bacterial translocation in vitro. *Pediatr Surg Int* 2001; 17 (4): 265-8.

Nase L, Hatakka K, Savilahti E, Saxelin M, Ponka A, Poussa T et al. Effect of long-term consumption of a probiotic bacterium, *Lactobacillus rhamnosus* GG, in milk on dental caries and caries risk in children. *Caries Res* 2001; 35 (6): 412-20.

Nikoskelainen S, Salminen S, Bylund G, Ouwehand AC. Characterization of the properties of human- and dairy-derived probiotics for prevention of infectious diseases in fish. *Appl Environ Microbiol* 2001; 67 (6): 2430-5.

Ouwehand AC, Tuomola EM, Tolkko S, Salminen S. Assessment of adhesion properties of novel probiotic strains to human intestinal mucus. *Int J Food Microbiol* 2001; 64 (1-2): 119-26.

Pessi T, Isolauri E, Sutas Y, Kankaanranta H, Moilanen E, Hurme M. Suppression of T-cell activation by *Lactobacillus rhamnosus* GG -degraded bovine casein. *Int Immunopharmacol* 2001; 1 (2): 211-8.

Reid G, Beuerman D, Heinemann C, Bruce AW. Probiotic *Lactobacillus* dose required to restore and maintain a normal vaginal flora. *FEMS Immunol Med Microbiol* 2001; 32 (1): 37-41.

Strus M, Marewicz E, Kukla G, Ruranska-Smutnicka D, Przondo-Mordarska A, Heczko PB. Surface properties of *Lactobacillus* strains of human origin. *Microbial Ecol Health Dis* 2001; 13: 240-5.

Thomas MR, Litin SC, Osmon DR, Corr AP, Weaver AL, Lohse CM. Lack of effect of *Lactobacillus* GG on antibiotic-associated diarrhea: A randomized, placebo-controlled trial. *Mayo Clin Proc* 2001; 76 (9): 883-9.

Zoppi G, Cinquetti M, Benini A, Bonamini E, Bertazzoni Minelli E. Modulation of the intestinal ecosystem by probiotics and lactulose in children during treatment with ceftriaxone. *Current Ther Res* 2001; 62 (5): 418-35.

2000 (29)

Broccali G, Berti M, Pistolesi E, Cestaro B. Study of the effect of *Lactobacillus* GG supplementation in combination with and without arginine aspartate on lipoproteins and liver peroxidation in cholesterol-fed rats. *Int J Food Sci Nutr* 2000; 51 (6): 475-82.

Busscher HJ, Free RH, Van Weissenbruch R, Albers FWJ, Van der Mei HC. Preliminary observations on influence of dairy products on biofilm removal from silicone rubber voice prostheses in vitro. *Journal Of Dairy Science* 2000; 83 (4): 641-7.

Cardona ME, Vanay VV, Midtvedt T, Norin E. Probiotics in gnotobiotic mice. Conversion of cholesterol to coprostanol in vitro and in vivo and bile acid deconjugation in vitro. *Microbial Ecol Health Dis* 2000; 12: 219-24.

Charteris WP, Kelly PM, Morelli L, Collins JK. Effect of conjugated bile salts on antibiotic susceptibility of bile salt-tolerant lactobacillus and *Bifidobacterium* isolates. *J Food Prot* 2000; 63 (10): 1369-76.

El-Nezami H, Mykkanen H, Kankaanpaa P, Salminen S, Ahokas J. Ability of *Lactobacillus* and *Propionibacterium* strains to remove aflatoxin b, from the chicken duodenum. *J Food Prot* 2000; 63 (4): 549-52.

Guandalini S, Pensabene L, Zikri MA, Dias JA, Casali LG, Hoekstra H et al. *Lactobacillus* GG administered in oral rehydration solution to children with acute diarrhea: A multicenter european trial. *J Pediatr Gastroenterol Nutr* 2000; 30 (1): 54-60.

Gupta P, Andrew H, Kirschner BS, Guandalini S. Is *Lactobacillus* GG helpful in children with crohn's disease? Results of a preliminary, open-label study. *J Pediatr Gastroenterol Nutr* 2000; 31 (4): 453-7.

Haskard C, Binnion C, Ahokas J. Factors affecting the sequestration of aflatoxin by *Lactobacillus rhamnosus* strain GG. *Chem Biol Interact* 2000; 128 (1): 39-49.

He F, Tuomola E, Arvilommi H, Salminen S. Modulation of humoral immune response through probiotic intake. *FEMS Immunol Med Microbiol* 2000; 29 (1): 47-52.

Isolaure E, Arvola T, Sutas Y, Moilanen E, Salminen S. Probiotics in the management of atopic eczema. *Clin Exp Allergy* 2000; 30 (11): 1604-10.

Kankaanpaa P, Tuomola E, El-Nezami H, Ahokas J, Salminen SJ. Binding of aflatoxin b1 alters the adhesion properties of *Lactobacillus rhamnosus* strain GG in a caco-2 model. *J Food Prot* 2000; 63 (3): 412-4.

Kaplan H, Hutkins RW. Fermentation of fructooligosaccharides by lactic acid bacteria and bifidobacteria. *Appl Environ Microbiol* 2000; 66 (6): 2682-4.

Klein G, Hallmann C, Casas IA, Abad J, Louwers J, Reuter G. Exclusion of van a, van b and van c type glycopeptide resistance in strains of lactobacillus reuteri and lactobacillus rhamnosus used as probiotics by polymerase chain reaction and hybridization methods. *J Appl Microbiol* 2000; 89 (5): 815-24.

Kneifel W, Rajal A, Kulbe KD. In vitro growth behaviour of probiotic bacteria in culture media with carbohydrates of prebiotic importance. *Microbial Ecol. Health Disease* 2000; 12: 27-34.

Lee DJ, Drongowski RA, Coran AG, Harmon CM. Evaluation of probiotic treatment in a neonatal animal model. *Pediatr Surg Int* 2000a; 16 (4): 237-42.

Lee YK, Lim CY, Teng WL, Ouwehand AC, Tuomola EM, Salminen S. Quantitative approach in the study of adhesion of lactic acid bacteria to intestinal cells and their competition with enterobacteria. *Appl Environ Microbiol* 2000b; 66 (9): 3692-7.

McCracken A, Turner MS, Giffard P, Hafner LM, Timms P. Analysis of promoter sequences from *Lactobacillus* and *Lactococcus* and their activity in several *Lactobacillus* species. *Arch Microbiol* 2000; 173 (5-6): 383-9.

Miettinen M, Lehtonen A, Julkunen I, Matikainen S. Lactobacilli and streptococci activate nf-kappa b and stat signaling pathways in human macrophages. *J Immunol* 2000; 164 (7): 3733-40.

Nosova T, Jousimies-Somer H, Jokelainen K, Heine R, Salaspuro M. Acetaldehyde production and metabolism by human indigenous and probiotic *Lactobacillus* and *Bifidobacterium* strains. *Alcohol Alcohol* 2000; 35 (6): 561-8.

O'Sullivan MA, O'Morain CA. Bacterial supplementation in the irritable bowel syndrome. A randomised double-blind placebo-controlled crossover study. *Dig Liver Dis* 2000; 32 (4): 294-301.

Ouwehand AC, Grasten S, Niemi P, Mykkanen H, Salminen S. Wheat or rye supplemented diets do not affect faecal mucus concentration or the adhesion of probiotic micro-organisms to faecal mucus. *Lett Appl Microbiol* 2000a; 31 (1): 30-3.

Ouwehand AC, Isolauri E, Kirjavainen PV, Tolkkio S, Salminen SJ. The mucus binding of *Bifidobacterium lactis* bb12 is enhanced in the presence of *Lactobacillus* GG and *Lact. delbrueckii* subsp. *bulgaricus*. *Lett Appl Microbiol* 2000b; 30 (1): 10-3.

Ouwehand AC, Tolkkio S, Kulmala J, Salminen S, Salminen E. Adhesion of inactivated probiotic strains to intestinal mucus. *Lett Appl Microbiol* 2000c; 31 (1): 82-6.

Pessi T, Sutas Y, Hurme M, Isolauri E. Interleukin-10 generation in atopic children following oral *Lactobacillus rhamnosus* GG. *Clin Exp Allergy* 2000; 30 (12): 1804-8.

Pierides M, El-Nezami H, Peltonen K, Salminen S, Ahokas J. Ability of dairy strains of lactic acid bacteria to bind aflatoxin m1 in a food model. *J Food Protect.* 2000; 63 (5): 645-50.

Tuomola EM, Ouwehand AC, Salminen SJ. Chemical, physical and enzymatic pre-treatments of probiotic lactobacilli alter their adhesion to human intestinal mucus glycoproteins. *Int J Food Microbiol* 2000; 60 (1): 75-81.

Wagner RD, Dohnalek M, Hilty M, Vazquez-Torres A, Balish E. Effects of probiotic bacteria on humoral immunity to candida albicans in immunodeficient bg/bg-nu/nu and bg/bg-nu/+ mice. *Rev Iberoam Micol* 2000a; 17 (2): 55-9.

Wagner RD, Pierson C, Warner T, Dohnalek M, Hilty M, Balish E. Probiotic effects of feeding heat-killed *Lactobacillus acidophilus* and *Lactobacillus casei* to *Candida albicans*-colonized immunodeficient mice. *J. Food Protect.* 2000b; 63 (5): 638-44.

Vanderhoof J, Whitney D, Antonson D. In children receiving antibiotics, does coadministration of *Lactobacillus* GG reduce the incidence of diarrhea? *West J Med* 2000; 173 (6): 397.

1999 (19)

Alander M, De Smet I, Nollet L, Verstraete W, von Wright A, Mattila-Sandholm T. The effect of probiotic strains on the microbiota of the simulator of the human intestinal microbial ecosystem (shime). *Int J Food Microbiol* 1999a; 46 (1): 71-9.

Alander M, Satokari R, Korpela R, Saxelin M, Vilpponen-Salmela T, Mattila-Sandholm T et al. Persistence of colonization of human colonic mucosa by a probiotic strain, *Lactobacillus rhamnosus* GG, after oral consumption. *Appl Environ Microbiol* 1999b; 65 (1): 351-4.

Arvola T, Laiho K, Torkkeli S, Mykkanen H, Salminen S, Maunula L et al. Prophylactic *Lactobacillus* GG reduces antibiotic-associated diarrhea in children with respiratory infections: A randomized study. *Pediatrics* 1999; 104 (5): e64.

Busscher HJ, Mulder AFJM, van der Mei HC. *In vitro* adhesion to enamel and in vivo colonization of tooth surfaces by lactobacilli from bio-yoghurt. *Caries Research* 1999; 33: 403-4.

Jacobsen CN, Rosenfeldt Nielsen V, Hayford AE, Moller PL, Michaelsen KF, Paerregaard A et al. Screening of probiotic activities of forty-seven strains of *Lactobacillus* spp. By in vitro techniques and evaluation of the colonization ability of five selected strains in humans. *Appl Environ Microbiol* 1999; 65 (11): 4949-56.

Kirjavainen PV, ElNezami HS, Salminen SJ, Ahokas JT, Wright PF. Effects of orally administered viable lactobacillus *Lactobacillus* GG and *Propionibacterium freudenreichii* subsp. *shermanii* JS on mouse lymphocyte proliferation. *Clin Diagn Lab Immunol* 1999a; 6 (6): 799-802.

Kirjavainen PV, Tuomola EM, Crittenden RG, Ouwehand AC, Harty DW, Morris LF et al. In vitro adhesion and platelet aggregation properties of bacteremia-associated lactobacilli. *Infect Immun* 1999b; 67 (5): 2653-5.

Mack DR, Michail S, Wei S, McDougall L, Hollingsworth MA. Probiotics inhibit enteropathogenic *E. coli* adherence in vitro by inducing intestinal mucin gene expression. *Am J Physiol* 1999; 276 (4 Pt 1): G941-50.

McCracken A, Timms P. Efficiency of transcription from promoter sequence variants in *Lactobacillus* is both strain and context dependent. *J Bacteriol* 1999; 181 (20): 6569-72.

McIntosh GH, Royle PJ, Playne MJ. A probiotic strain of *L. Acidophilus* reduces dmh-induced large intestinal tumors in male sprague-dawley rats. *Nutr Cancer* 1999; 35 (2): 153-9.

Oberhelman RA, Gilman RH, Sheen P, Taylor DN, Black RE, Cabrera L et al. A placebo-controlled trial of *Lactobacillus* GG to prevent diarrhea in undernourished peruvian children. *J Pediatr* 1999; 134 (1): 15-20.

Ouwehand AC, Kirjavainen PV, Grönlund MM, Isolauri E, Salminen SJ. Adhesion of probiotic micro-organisms to intestinal mucus. *Int. Dairy J.* 1999a; 9: 623-30.

Ouwehand AC, Niemi P, Salminen SJ. The normal faecal microflora does not affect the adhesion of probiotic bacteria in vitro. *FEMS Microbiol Lett* 1999b; 177 (1): 35-8.

Pessi T, Sutas Y, Saxelin M, Kallioinen H, Isolauri E. Antiproliferative effects of homogenates derived from five strains of candidate probiotic bacteria. *Appl Environ Microbiol* 1999; 65 (11): 4725-8.

Rautio M, Jousimies-Somer H, Kauma H, Pietarinen I, Saxelin M, Tynkkynen S et al. Liver abscess due to a *Lactobacillus rhamnosus* strain indistinguishable from *L. rhamnosus* strain GG. *Clin Infect Dis* 1999; 28 (5): 1159-60.

Salzano P, Piscopo L, Tirabasso S, Musone R, Ambrosio D, Cardone A. Ruolo del *Lactobacillus casei* subsp. *rhamnosus* GG (ATCC 53103) nel trattamento delle cistiti e vaginiti recidivanti ed effetto preventivo nelle cistiti e vaginiti specifiche dopo terapia (article in Italian). *Gazzetta Medica Italiana* 1999; 152 (2): 59-63.

Tuomola EM, Ouwehand AC, Salminen SJ. The effect of probiotic bacteria on the adhesion of pathogens to human intestinal mucus. *FEMS Immunol Med Microbiol* 1999a; 26 (2): 137-42.

Tuomola EM, Ouwehand AC, Salminen SJ. Human ileostomy glycoproteins as a model for small intestinal mucus to investigate adhesion of probiotics. *Lett Appl Microbiol* 1999b; 28 (3): 159-63.

Vanderhoof JA, Whitney DB, Antonson DL, Hanner TL, Lupo JV, Young RJ. *Lactobacillus* GG in the prevention of antibiotic-associated diarrhea in children. *J Pediatr* 1999; 135 (5): 564-8.

1998 (20)

Charteris WP, Kelly PM, Morelli L, Collins JK. Antibiotic susceptibility of potentially probiotic *Lactobacillus* species. *J Food Prot* 1998a; 61 (12): 1636-43.

Charteris WP, Kelly PM, Morelli L, Collins JK. Development and application of an in vitro methodology to determine the transit tolerance of potentially probiotic *Lactobacillus* and *Bifidobacterium* species in the upper human gastrointestinal tract. *J Appl Microbiol* 1998b; 84 (5): 759-68.

Coconnier M-H, Lievin V, Hemery E, Servin A. Antagonistic activity against *Helicobacter* infection in vitro and in vivo by the human lactobacillus acidophilus strain Ib. *Appl. Environm. Microbiol.* 1998; 64 (11): 4573-80.

El-Nezami H, Kankaanpää P, Salminen S, Ahokas J. Ability of dairy strains of lactic acid bacteria to bind a common food carcinogen, aflatoxin b1. *Food Chem Toxicol* 1998a; 36 (4): 321-6.

el-Nezami H, Kankaanpää P, Salminen S, Ahokas J. Physicochemical alterations enhance the ability of dairy strains of lactic acid bacteria to remove aflatoxin from contaminated media. *J Food Prot* 1998b; 61 (4): 466-8.

Hosoda M, He F, Kojima T, Hashimoto H, Iino H. Effects of fermented milk with *Lactobacillus rhamnosus* GG strain administration on defecation, putrefactive metabolites and fecal microflora of healthy volunteers. *J Nutritional Food* 1998; 1 (3-4): 1-9.

Jaskari J, Kontula P, Siitonen A, Jousimies-Somer H, Mattila-Sandholm T, Poutanen K. Oat β -glucan and xylan hydrolysates as selective substrates for *Bifidobacterium* and *Lactobacillus* strains. *Appl. Microbiol. Biotechnol.* 1998; 49: 175-81.

Kaila M, Isolauri E, Sepp E, Mikelsaar M, Salminen S. Fecal recovery of a human *Lactobacillus* strain (ATCC 53103) during dietary therapy of rotavirus diarrhea in infants. *Biosci. Microflora* 1998; 17 (2): 149-51.

Kirjavainen PV, Ouwehand AC, Isolauri E, Salminen SJ. The ability of probiotic bacteria to bind to human intestinal mucus. *FEMS Microbiol Lett* 1998; 167 (2): 185-9.

Kontula P, Jaskari J, Nollet L, De Smet I, von Wright A, Poutanen K et al. The colonization of a simulator of the human intestinal microbial ecosystem by a probiotic strain fed on a fermented oat bran product: Effects on the gastrointestinal microbiota. *Appl Microbiol Biotechnol* 1998a; 50 (2): 246-52.

Kontula P, von Wright A, Mattila-Sandholm T. Oat bran β -gluco- and xylo-oligosaccharides as fermentative substrates for lactic acid bacteria. *Int J Food Microbiol* 1998b; 45 (2): 163-9.

Miettinen M, Alander M, Von Wright A, Vuopio-Varkila J, Marteau P, Huis In't Veld J et al. The survival of and cytokine induction by lactic acid bacteria after passage through a gastrointestinal model. *Microbial Ecol Health Dis* 1998a; 10: 141-7.

Miettinen M, Matikainen S, Vuopio-Varkila J, Pirhonen J, Varkila K, Kurimoto M et al. Lactobacilli and streptococci induce interleukin-12 (il-12), il-18, and gamma interferon production in human peripheral blood mononuclear cells. *Infect Immun* 1998b; 66 (12): 6058-62.

Naaber P, Mikelsaar RH, Salminen S, Mikelsaar M. Bacterial translocation, intestinal microflora and morphological changes of intestinal mucosa in experimental models of *Clostridium difficile* infection. *J Med Microbiol* 1998; 47 (7): 591-8.

Pelto L, Isolauri E, Lilius EM, Nuutila J, Salminen S. Probiotic bacteria down-regulate the milk-induced inflammatory response in milk-hypersensitive subjects but have an immunostimulatory effect in healthy subjects. *Clin Exp Allergy* 1998; 28 (12): 1474-9.

Pessi T, Sutas Y, Marttinen A, Isolauri E. Probiotics reinforce mucosal degradation of antigens in rats: Implications for therapeutic use of probiotics. *J Nutr* 1998; 128 (12): 2313-8.

Rautanen T, Isolauri E, Salo E, Vesikari T. Management of acute diarrhoea with low osmolarity oral rehydration solutions and *Lactobacillus* strain GG. *Arch Dis Child* 1998; 79 (2): 157-60.

Tuomola EM, Salminen SJ. Adhesion of some probiotic and dairy *Lactobacillus* strains to caco-2 cell cultures. *Int J Food Microbiol* 1998; 41 (1): 45-51.

Tynkkynen S, Singh KV, Varmanen P. Vancomycin resistance factor of *Lactobacillus rhamnosus* GG in relation to enterococcal vancomycin resistance (van) genes. *Int J Food Microbiol* 1998; 41 (3): 195-204.

Vanderhoof JA, Young RJ, Murray N, Kaufman SS. Treatment strategies for small bowel bacterial overgrowth in short bowel syndrome. *J Pediatr Gastroenterol Nutr* 1998; 27 (2): 155-60.

1997 (18)

Alander M, Korpela R, Saxelin M, Vilpponen-Salmela T, Mattila-Sandholm T, von Wright A. Recovery of *Lactobacillus rhamnosus* GG from human colonic biopsies. *Lett Appl Microbiol* 1997; 24 (5): 361-4.

Gronlund MM, Lehtonen OP, Kero P, Saxelin M, Salminen S. *Lactobacillus* GG supplementation does not reduce faecal colonization of klebsiella oxytoca in preterm infants. *Acta Paediatr* 1997; 86 (7): 785-6.

Guarino A, Canani RB, Spagnuolo MI, Albano F, Di Benedetto L. Oral bacterial therapy reduces the duration of symptoms and of viral excretion in children with mild diarrhea. *J Pediatr Gastroenterol Nutr* 1997; 25 (5): 516-9.

Hilton E, Kolakowski P, Singer C, Smith M. Efficacy of *Lactobacillus* GG as a diarrheal preventive in travelers. *J Travel Med* 1997; 4 (1): 41-3.

- Hudault S, Lievin V, Bernet-Camard MF, Servin AL. Antagonistic activity exerted in vitro and in vivo by *Lactobacillus casei* (strain GG) against *Salmonella* Typhimurium c5 infection. *Appl Environ Microbiol* 1997; 63 (2): 513-8.
- Korpela R, Moilanen E, Saxelin M, Vapaatalo H. *Lactobacillus rhamnosus* GG (ATCC 53103) and platelet aggregation in vitro. *Int J Food Microbiol* 1997a; 37 (1): 83-6.
- Korpela R, Peuhkuri K, Lähteenmäki T, Sievi E, Saxelin M, Vapaatalo H. *Lactobacillus rhamnosus* GG shows antioxidative properties in vascular endothelial cell culture. *Milchwissenschaft* 1997b; 52 (9): 503-5.
- Lehto EM, Salminen S. Adhesion of two lactobacillus strains, one *Lactococcus* and one *Probiobacterium* strain to cultured human intestinal caco-2 cell line. *Bioscience Microflora* 1997a; 16: 13-7.
- Lehto EM, Salminen SJ. Inhibition of *Salmonella* Typhimurium adhesion to caco-2 cell cultures by *Lactobacillus* strain GG spent culture supernate: Only a pH effect? *FEMS Immunol Med Microbiol* 1997b; 18 (2): 125-32.
- Majamaa H, Isolauri E. Probiotics: A novel approach in the management of food allergy. *J Allergy Clin Immunol* 1997; 99 (2): 179-85.
- Malin M, Verronen P, Korhonen H, Syväoja EL, Salminen S, Mykkanen H et al. Dietary therapy with *Lactobacillus* GG, bovine colostrum or bovine immune colostrum in patients with juvenile chronic arthritis: Evaluation of effect on gut defence mechanisms. *Inflammopharmacology* 1997; 5 (3): 219-36.
- Marini A, Clerici-Bagozzi D, Maglia T, Casetta P, Negretti F. Microbiological and immunological observations in the stools of preterm neonates orally treated with probiotic products. Note iii: Treatment with *Lactobacillus* gg. *Dev Physiopath Clin* 1997; 7: 87-94.
- Negretti F, Casetta P, Clerici-Bagozzi D, Marini A. Researches on the intestinal and systemic immunoresponses after oral treatment with *Lactobacillus* GG in the rabbit. *Dev Physiopathol Clin* 1997; 7: 15-21.
- Rokka T, Syväoja EL, Tuominen J, Korhonen H. Release of bioactive peptides by enzymatic proteolysis of *Lactobacillus* GG fermented uht milk. *Milchwissenschaft* 1997; 52 (12): 675-8.
- Shornikova AV, Isolauri E, Burkanova L, Lukovnikova S, Vesikari T. A trial in the karelian republic of oral rehydration and *Lactobacillus* GG for treatment of acute diarrhoea. *Acta Paediatr* 1997; 86 (5): 460-5.
- Wagner RD, Pierson C, Warner T, Dohnalek M, Farmer J, Roberts L et al. Biotherapeutic effects of probiotic bacteria on candidiasis in immunodeficient mice. *Infect Immun* 1997a; 65 (10): 4165-72.
- Wagner RD, Warner T, Roberts L, Farmer J, Balish E. Colonization of congenitally immunodeficient mice with probiotic bacteria. *Infect Immun* 1997b; 65 (8): 3345-51.
- Yang Z, Suomalainen T, Mäyrä-Mäkinen A, Huttunen E. Antimicrobial activity of 2-pyrrolidone-5-carboxylic acid produced by lactic acid bacteria. *J Food Protect* 1997; 60 (7): 786-90.

1996 (14)

Bennet RG, Gorbach SL, Goldin BR, Chang T-W, Laughon BE, Greenough III WB et al. Treatment of relapsing *Clostridium difficile* diarrhea with *Lactobacillus* GG. *Nutrition Today* 1996; 31 (6, Supplement 1): 35S-8S.

Benno Y, He F, Hosoda M, Hashimoto H, Kojima T, Yamazaki K et al. Effect of *Lactobacillus* GG yoghurt on human intestinal microecology in japanese subjects. *Nutrition Today* 1996; 31 (6, Supplement 1): 9S-11S.

Goldin BR, Gualtieri LJ, Moore RP. The effect of *Lactobacillus* GG on the initiation and promotion of dmh-induced intestinal tumors in the rat. *Nutr Cancer* 1996; 25 (2): 197-204.

Malin M, Suomalainen H, Saxelin M, Isolauri E. Promotion of IgA immune response in patients with crohn's disease by oral bacteriotherapy with *Lactobacillus* GG. *Ann Nutr Metab* 1996a; 40 (3): 137-45.

Malin M, Verronen P, Mykkanen H, Salminen S, Isolauri E. Increased bacterial urease activity in faeces in juvenile chronic arthritis: Evidence of altered intestinal microflora? *Br J Rheumatol* 1996b; 35 (7): 689-94.

Miettinen M, Vuopio-Varkila J, Varkila K. Production of human tumor necrosis factor alpha, interleukin-6, and interleukin-10 is induced by lactic acid bacteria. *Infect Immun* 1996; 64 (12): 5403-5.

Millar MR, Linton CJ, Cade A, Glancy D, Hall M, Jalal H. Application of 16s rRNA gene PCR to study bowel flora of preterm infants with and without necrotizing enterocolitis. *J Clin Microbiol* 1996; 34 (10): 2506-10.

Nighswonger BD, Brashears MM, Gilliland SE. Viability of *Lactobacillus acidophilus* and *Lactobacillus casei* in fermented milk products during refrigerated storage. *J Dairy Sci* 1996; 79 (2): 212-9.

Pant AR, Graham SM, Allen SJ, Harikul S, Sabchareon A, Cuevas L et al. *Lactobacillus* GG and acute diarrhoea in young children in the tropics. *J Trop Pediatr* 1996; 42 (3): 162-5.

Saxelin M, Chuang NH, Chassy B, Rautelin H, Makela PH, Salminen S et al. Lactobacilli and bacteremia in southern finland, 1989-1992. *Clin Infect Dis* 1996; 22 (3): 564-6.

Saxelin M, Rautelin, H., Salminen, S., and Mäkelä, P.H. The safety of commercial products with viable *Lactobacillus* strains. *Infect Dis Clin Pract* 1996; 5 (5): 331-5.

Siigur U, Tamm E, Torm S, Lutsar I, Salminen S, Midtvedt T. Effect of bacterial infection and administration of a probiotic on faecal short-chain fatty acids. *Microbial Ecol Health Dis* 1996; 9: 271-7.

Sutas Y, Hurme M, Isolauri E. Down-regulation of anti-cd3 antibody-induced il-4 production by bovine caseins hydrolysed with *Lactobacillus* GG -derived enzymes. *Scand J Immunol* 1996a; 43 (6): 687-9.

Sutas Y, Soppi E, Korhonen H, Syvaoja EL, Saxelin M, Rokka T et al. Suppression of lymphocyte proliferation in vitro by bovine caseins hydrolyzed with *Lactobacillus casei* GG-derived enzymes. *J Allergy Clin Immunol* 1996b; 98 (1): 216-24.

1995 (15)

Biller JA, Katz AJ, Flores AF, Buie TM, Gorbach SL. Treatment of recurrent *Clostridium difficile* colitis with *Lactobacillus* GG. *J Pediatr Gastroenterol Nutr* 1995; 21 (2): 224-6.

Hilton E, Rindos P, Isenberg HD. *Lactobacillus* GG vaginal suppositories and vaginitis. *J Clin Microbiol* 1995; 33 (5): 1433.

Isolauri E, Joensuu J, Suomalainen H, Luomala M, Vesikari T. Improved immunogenicity of oral d x rrv reassortant rotavirus vaccine by *Lactobacillus casei* GG. *Vaccine* 1995; 13 (3): 310-2.

Kaila M, Isolauri E, Saxelin M, Arvilommi H, Vesikari T. Viable versus inactivated *Lactobacillus* strain GG in acute rotavirus diarrhoea. *Arch Dis Child* 1995; 72 (1): 51-3.

Majamaa H, Isolauri E, Saxelin M, Vesikari T. Lactic acid bacteria in the treatment of acute rotavirus gastroenteritis. *J Pediatr Gastroenterol Nutr* 1995; 20 (3): 333-8.

Meurman JH, Antila H, Korhonen A, Salminen S. Effect of *Lactobacillus rhamnosus* strain GG (ATCC 53103) on the growth of *Streptococcus sobrinus* in vitro. *Eur J Oral Sci* 1995; 103 (4): 253-8.

Raza S, Graham SM, Allen SJ, Sultana S, Cuevas L, Hart CA. *Lactobacillus* GG promotes recovery from acute nonbloody diarrhea in pakistan. *Pediatr Infect Dis J* 1995a; 14 (2): 107-11.

Raza S, Graham SM, Allen SJ, Sultana S, Cuevas L, Hart CA et al. *Lactobacillus* GG in acute diarrhea. *Indian Pediatr* 1995b; 32 (10): 1140-2.

Ruseler-van Embden JG, van Lieshout LM, Gosselink MJ, Marteau P. Inability of *Lactobacillus casei* strain GG, *L. acidophilus*, and *Bifidobacterium bifidum* to degrade intestinal mucus glycoproteins. *Scand J Gastroenterol* 1995a; 30 (7): 675-80.

Ruseler-van Embden JG, Van Lieshout LM, Marteau P. Inability of *Lactobacillus casei* strain GG, *L. acidophilus*, and *Bifidobacterium bifidum* to degrade intestinal mucus glycoproteins. *Microecology and Therapy* 1995b; 25: 304-9.

Samuel MJ. Paediatrics forum. Acute diarrhoea. *Afr Health* 1995; 17 (5): 27, 9-30.

Sarem-Damerdjil L, Sarem F, Marchal L, Nicolas JP. In vitro colonization ability of human colon mucosa by exogenous *Lactobacillus* strains. *FEMS Microbiol Lett* 1995; 131 (2): 133-7.

Saxelin M, Pessi T, Salminen S. Fecal recovery following oral administration of *Lactobacillus* strain GG (ATCC 53103) in gelatine capsules to healthy volunteers. *Int J Food Microbiol* 1995; 25 (2): 199-203.

Sepp E, Tamm E, Torm S, Lutsar I, Mikelsaar M, Salminen S. Impact of a *Lactobacillus* probiotic on the faecal microflora in children with shigellosis. *Microecol Therapy* 1995; 23: 74-80.

Sheen P, Oberhelman RA, Gilman RH, Cabrera L, Verastegui M, Madico G. Short report: A placebo-controlled study of *Lactobacillus* GG colonization in one-to-three-year-old peruvian children. *Am J Trop Med Hyg* 1995; 52 (5): 389-92.

1994 (6)

Hosoda M, He F, Hiramatu M, Hashimoto H, Benno Y. Effects of *Lactobacillus* GG strain intake on fecal microflora and defecation in healthy volunteers. *Bifidus (Japan Bifidus Foundation)* 1994; 8: 21-2.

Isolauri E, Kaila M, Mykkanen H, Ling WH, Salminen S. Oral bacteriotherapy for viral gastroenteritis. *Dig Dis Sci* 1994; 39 (12): 2595-600.

Ling WH, Korpela R, Mykkanen H, Salminen S, Hanninen O. *Lactobacillus* strain GG supplementation decreases colonic hydrolytic and reductive enzyme activities in healthy female adults. *J Nutr* 1994a; 124 (1): 18-23.

Ling WH, Saxelin M, Hänninen O, Salminen S. Enzyme profile of *Lactobacillus* strain GG by a rapid api zym system: A comparison of intestinal bacterial strains. *Microb Ecol Health Dis* 1994b; 7: 99-104.

Meurman JH, Antila H, Salminen S. Recovery of *Lactobacillus* strain GG (ATCC 53103) from saliva of healthy volunteers after consumption of yoghurt prepared with the bacterium. *Microbial. Ecol. Health Dis.* 1994; 7: 295-8.

Nanji AA, Khettry U, Sadrzadeh SM. *Lactobacillus* feeding reduces endotoxemia and severity of experimental alcoholic liver (disease). *Proc Soc Exp Biol Med* 1994; 205 (3): 243-7.

1993 (8)

Donohue DC, Deighton M, Ahokas JT, Salminen S. Toxicity of lactic acid bacteria. *Lactic Acid Bacteria* 1993: 307-13.

Isolauri E, Kaila M, Arvola T, Majamaa H, Rantala I, Virtanen E et al. Diet during rotavirus enteritis affects jejunal permeability to macromolecules in suckling rats. *Pediatr Res* 1993a; 33 (6): 548-53.

Isolauri E, Majamaa H, Arvola T, Rantala I, Virtanen E, Arvilommi H. *Lactobacillus casei* strain GG reverses increased intestinal permeability induced by cow milk in suckling rats. *Gastroenterology* 1993b; 105 (6): 1643-50.

Millar MR, Bacon C, Smith SL, Walker V, Hall MA. Enteral feeding of premature infants with *Lactobacillus* GG. *Arch Dis Child* 1993; 69 (5 Spec No): 483-7.

Salovaara H, Kontula P, Nieminen A, Mantere-Alhonen S. Oat bran as a substrate for lactic acid bacteria and bifidobacteria. *Progress in food fermentation Vol. x., Proceedings of Euro Food Chem.* 1993; VII: 314-7.

Saxelin M, Ahokas M, Salminen S. Dose response on the faecal colonization of *Lactobacillus* strain GG administered in two different formulations. *Microbial Ecol Health Dis* 1993; 6: 119-22.

Sepp E, Mikelsaar M, Salminen S. Effect of administration of *Lactobacillus casei* strain GG on the gastrointestinal microbiota of newborns. *Microb Ecol Health Dis* 1993; 6: 309-14.

Stansbridge EM, Walker V, Hall MA, Smith SL, Millar MR, Bacon C et al. Effects of feeding premature infants with *Lactobacillus* GG on gut fermentation. *Arch Dis Child* 1993; 69 (5 Spec No): 488-92.

1992 (5)

Chauvière G, Coconnier M-H, Kerméis S, Fourniat J, Servin AL. Adhesion of human *Lactobacillus acidophilus* strain Ib to human enterocyte-like caco-2 cells. *J Gen Microbiol* 1992; 138: 1689-96.

Coconnier MH, Klaenhammer TR, Kerneis S, Bernet MF, Servin AL. Protein-mediated adhesion of *Lactobacillus acidophilus* bg2fo4 on human enterocyte and mucus-secreting cell lines in culture. *Appl Environ Microbiol* 1992; 58 (6): 2034-9.

Goldin BR, Gorbach SL, Saxelin M, Barakat S, Gualtieri L, Salminen S. Survival of *Lactobacillus* species (strain GG) in human gastrointestinal tract. *Dig Dis Sci* 1992; 37 (1): 121-8.

Kaila M, Isolauri E, Soppi E, Virtanen E, Laine S, Arvilommi H. Enhancement of the circulating antibody secreting cell response in human diarrhea by a human *Lactobacillus* strain. *Pediatr Res* 1992; 32 (2): 141-4.

Ling WH, Hanninen O, Mykkanen H, Heikura M, Salminen S, Von Wright A. Colonization and fecal enzyme activities after oral *Lactobacillus* GG administration in elderly nursing home residents. *Ann Nutr Metab* 1992; 36 (3): 162-6.

1991 (3)

Elo S, Saxelin M, Salminen S. Attachment of *Lactobacillus casei* strain GG to human colon carcinoma cell line caco-2: Comparison with other dairy strains. *Lett Appl Microbiol* 1991; 13: 154-6.

Isolauri E, Juntunen M, Rautanen T, Sillanauke P, Koivula T. A human *Lactobacillus* strain (*Lactobacillus casei* sp strain GG) promotes recovery from acute diarrhea in children. *Pediatrics* 1991; 88 (1): 90-7.

Saxelin M, Elo S, Salminen S, Vapaatalo H. Dose response colonization of faeces after oral administration of *Lactobacillus casei* strain GG. *Microbial Ecol Health Dis* 1991; 4: 209-14.

1990 (2)

Oksanen PJ, Salminen S, Saxelin M, Hamalainen P, Ihanola-Vormisto A, Muurasniemi-Isoviita L et al. Prevention of travellers' diarrhoea by *Lactobacillus* GG. *Ann Med* 1990; 22 (1): 53-6.

Siitonen S, Vapaatalo H, Salminen S, Gordin A, Saxelin M, Wikberg R et al. Effect of *Lactobacillus* GG yoghurt in prevention of antibiotic associated diarrhoea. *Ann Med* 1990; 22 (1): 57-9.

1987 (3)

Dong MY, Chang TW, Gorbach SL. Effects of feeding *Lactobacillus* GG on lethal irradiation in mice. *Diagn Microbiol Infect Dis* 1987; 7 (1): 1-7.



R&D
Katri Hallamaa

52 (52)

22.2.2013

Gorbach SL, Chang TW, Goldin B. Successful treatment of relapsing *Clostridium difficile* colitis with *Lactobacillus* GG. *Lancet* 1987; 2 (8574): 1519.

Silva M, Jacobus NV, Deneke C, Gorbach SL. Antimicrobial substance from a human *Lactobacillus* strain. *Antimicrob Agents Chemother* 1987; 31 (8): 1231-3.