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(54) Title: PROBIOTIC COMPOSITIONS AND METHODS

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



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