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Declarations under Rule 4.17:

[Continued on next page]

(54) **Title**: A NUTRITIONAL COMPOSITION COMPRISING PROBIOTICS AND IMPROVING SLEEP PATTERNS

Figure 1

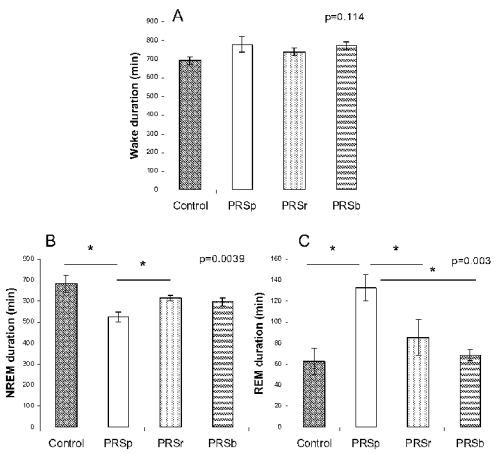


Figure 1. Total duration (minutes) of wake (A), NREM (B) and REM (C) states during the 24 hour polygraphic recording period in control or prenatal stress (PRS) animals. Animals received a daily gavage of either placebo (Control and PRSp), *L. reuteri* DSM 17938 (PRSr) of *B. longum* ATCC BAA-999 (PRSb) during the 14 days preceding polygraphic recordings. Average ± SEM data, as well as the p value for the global group effect (one-way ANOVA test) are shown. The symbol * between two bars indicates a significant difference ($p<0.05$) between the two groups (Tukey-Kramer Multiple-Comparison Test)

(57) **Abstract**: This invention relates to the use of a probiotic bacterial strain in the manufacture of a medicament or therapeutic nutritional composition for improving the maturation of sleep patterns in infants, young children or young animals and/or for reducing sleep disturbances and/or improving sleep patterns in humans or animals at any age.

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— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *of inventorship (Rule 4.17(iv))*

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