SUPPLEMENTARY MATERIAL

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3 gut microbiome

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Material and Methods

10 Analysis of the gut microbiota by real-time quantitative PCR (qPCR)

To evaluate the maltodextrin effects on the gut microbiota, we used feces samples from control mice, collected before and 9 hours after intragastric gavage with maltodextrin [9 g.kg⁻¹ p.c., 45% solution (m/v)] (Infinity Pharma®, Nova Iguaçu, RJ, Brazil). DNA extraction was performed according to the recommendations of the DNeasy® PowerSoil® Pro Kit (QIAGEN, Germany). DNA quantity and quality were assessed using NanoDrop 2000 device (Thermo Fisher Scientific, USA). Then the samples were immediately frozen at -20° C until molecular analysis. For PCR analysis, 10 ng of DNA and 1 μ M of forward and reverse primers [*Bacteroidetes, Firmicutes, Actinobacteria, Proteobacteria, Verrucomicrobia, Tenericutes*, and *Eubacteria* (normalizer gene)] were used. Specific primers sequences for all bacteria phyla are reported in Supplementary Table S1. Differences (Δ CT) between *Eubacteria* cycle threshold (CT) values and the evaluated phyla were used to obtain normalized levels of each bacteria phylum ($2^{-\Delta\Delta$ CT)} (1). The fecal samples collected before the maltodextrin exposure was used as a normalizer to define the relative abundance of each phylum.

REFERENCE

1. da Silva JL, Barbosa LV, Pinzan CF, Nardini V, Brigo IS, Sebastião CA, Elias-Oliveira J, Brazão V, Júnior JC do P, Carlos D, Cardoso CR de B. The Microbiota-Dependent Worsening Effects of Melatonin on Gut Inflammation. *Microorganisms* 11, 2023. doi: 10.3390/microorganisms11020460.