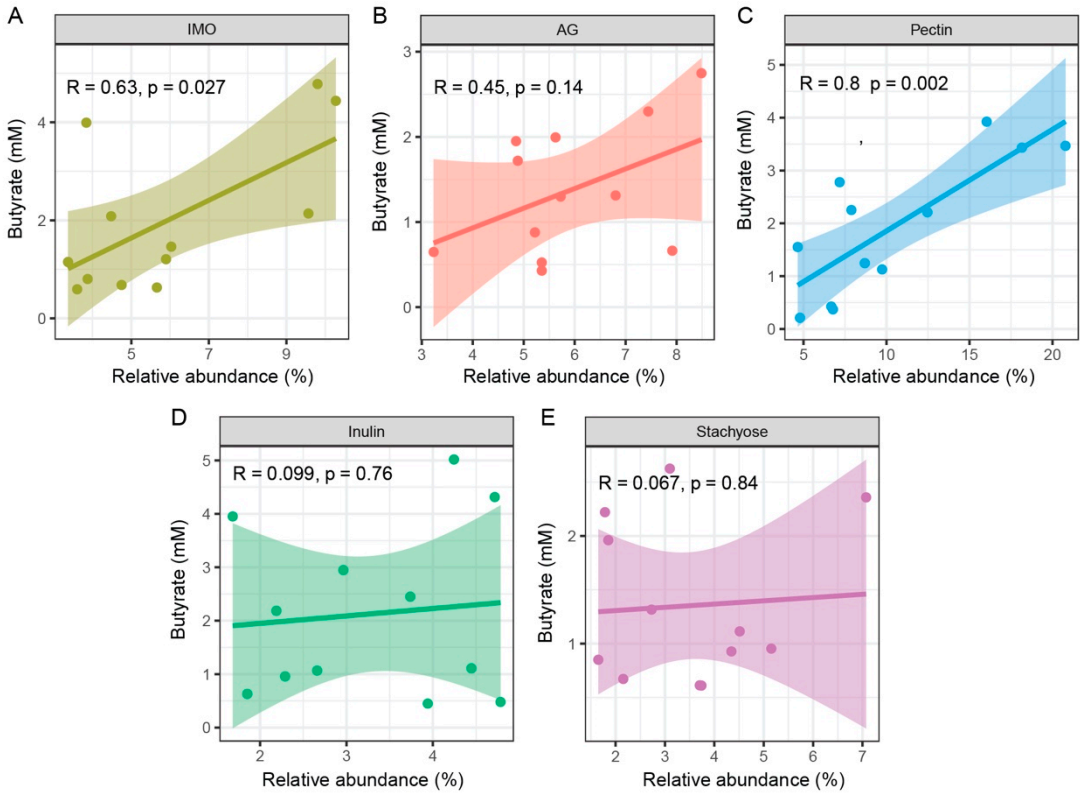


Figure S1. Pearson correlation analysis between the relative abundance of *Lachnospiraceae* and butyrate under different prebiotic treatments. (**A**) Isomaltooligosaccharides (IMO), (**B**) arabinogalactans (AG), (**C**) pectin, (**D**) inulin, and (**E**) stachyose. Shaded areas represent 95% confidence intervals for the regression line. r and p values were calculated using Pearson's correlation test.