

Supplementary information

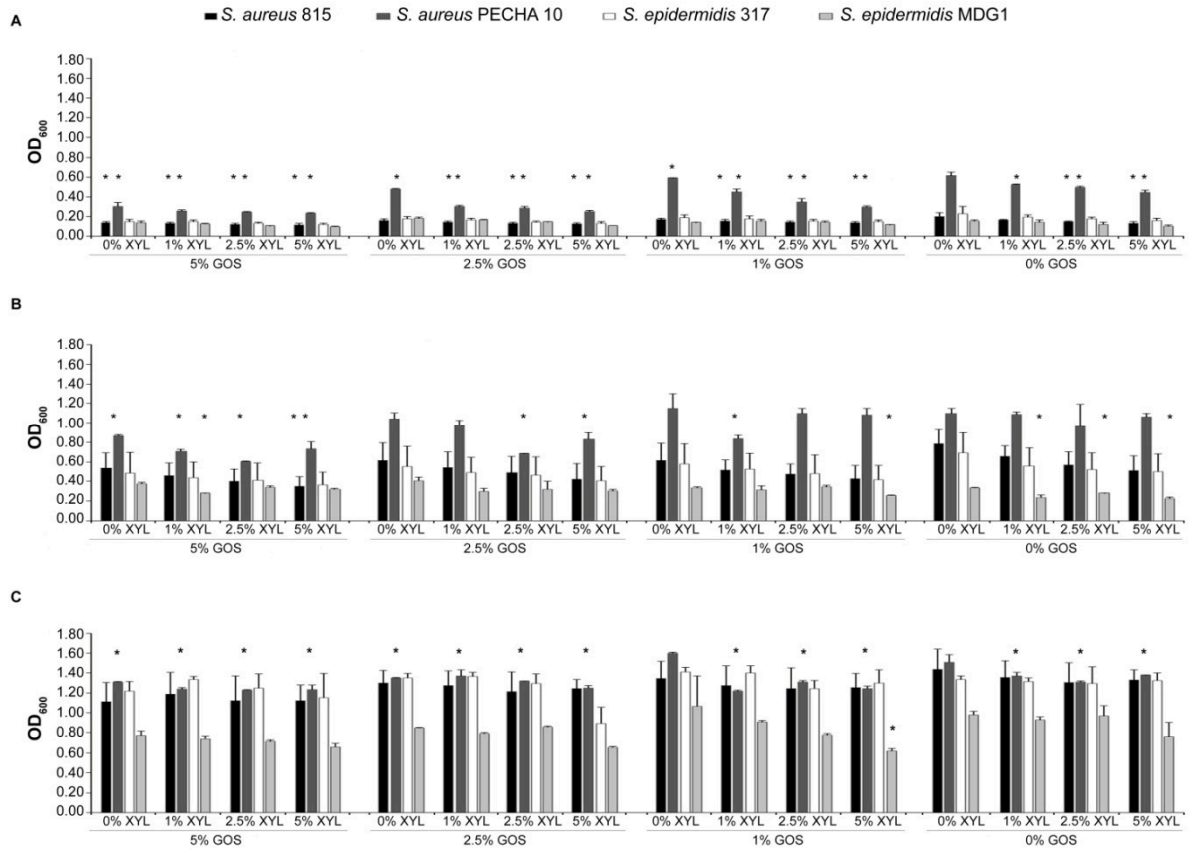


Figure S1. Optical density (OD₆₀₀) of *S. aureus* 815, *S. aureus* PECHA 10, *S. epidermidis* 317 and *S. epidermidis* MDG1 planktonic growth after 3 h (A), 6 h (B), 24 h (C) of contact with Xylitol (XYL) and Galacto-OligoSaccharide (GOS) at different concentrations (1, 2.5, 5%). *statistically significant in respect to the control ($p < 0.05$).

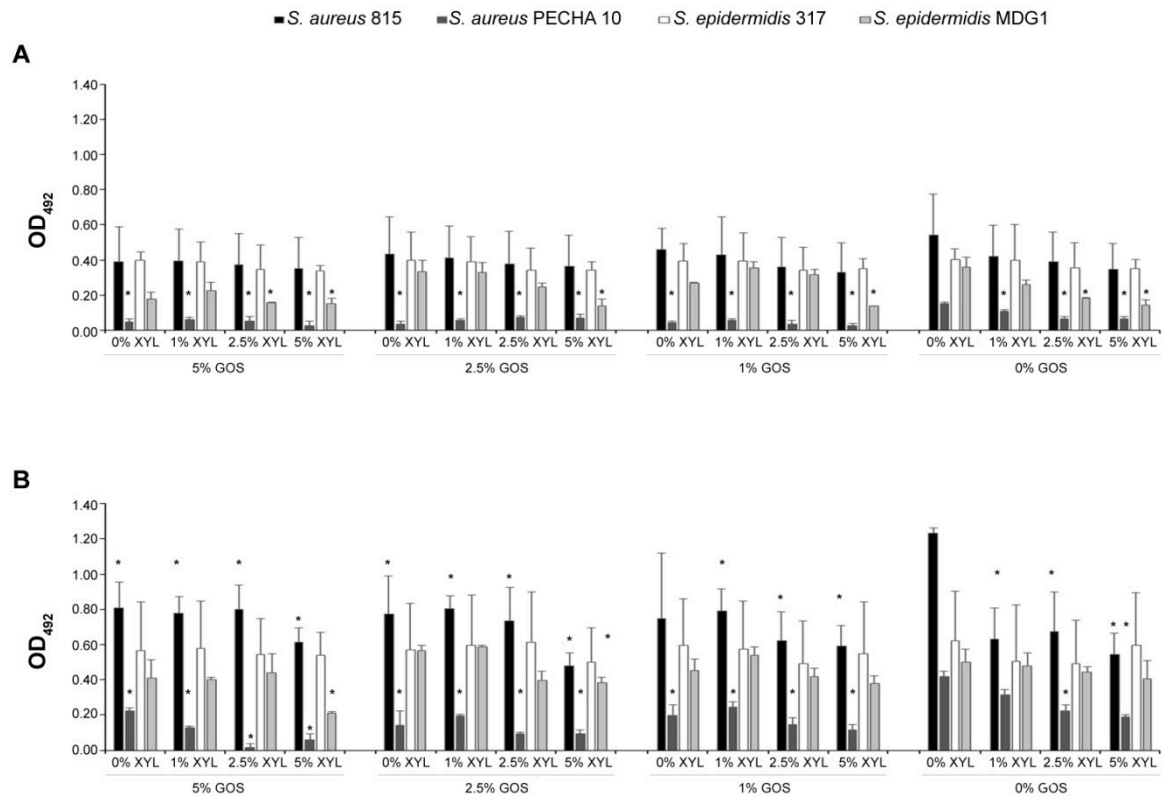


Figure S2. Biomass quantification (OD₄₉₂) of *S. aureus* 815, *S. aureus* PECHA 10, *S. epidermidis* 317 and *S. epidermidis* MDG1 biofilm formation after treatment with different concentrations of Xylitol (XYL) and Galacto-OligoSaccharide (GOS) at 3 h (A) and 24 h (B), respectively. *statistically significant in respect to the control ($p < 0.05$).

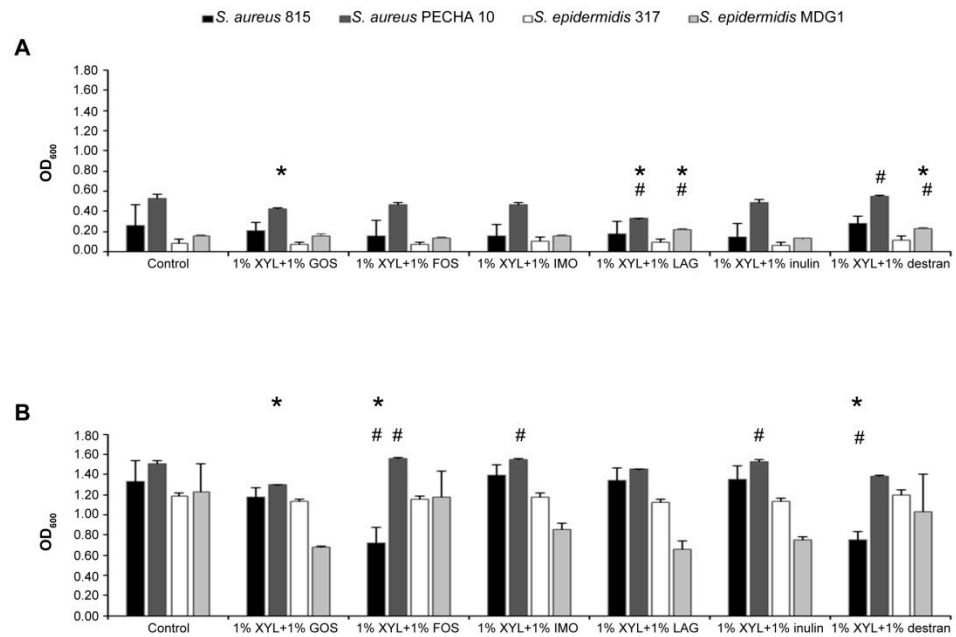


Figure S3. Optical density (OD₆₀₀) of *S. aureus* 815, *S. aureus* PECHA 10, *S. epidermidis* 317 and *S. epidermidis* MDG1 planktonic growth after 3 h (A), 24 h (B) of contact with 1% of Xylitol (XYL) and 1% of skin emerging prebiotics: FOS or IMO or LAG or inulin or dextran. *statistically significant in respect to the control ($p < 0.05$). #statistically significant in respect to the RC (1% XYL + 1% GOS) ($p < 0.05$). For abbreviations, see materials and methods.

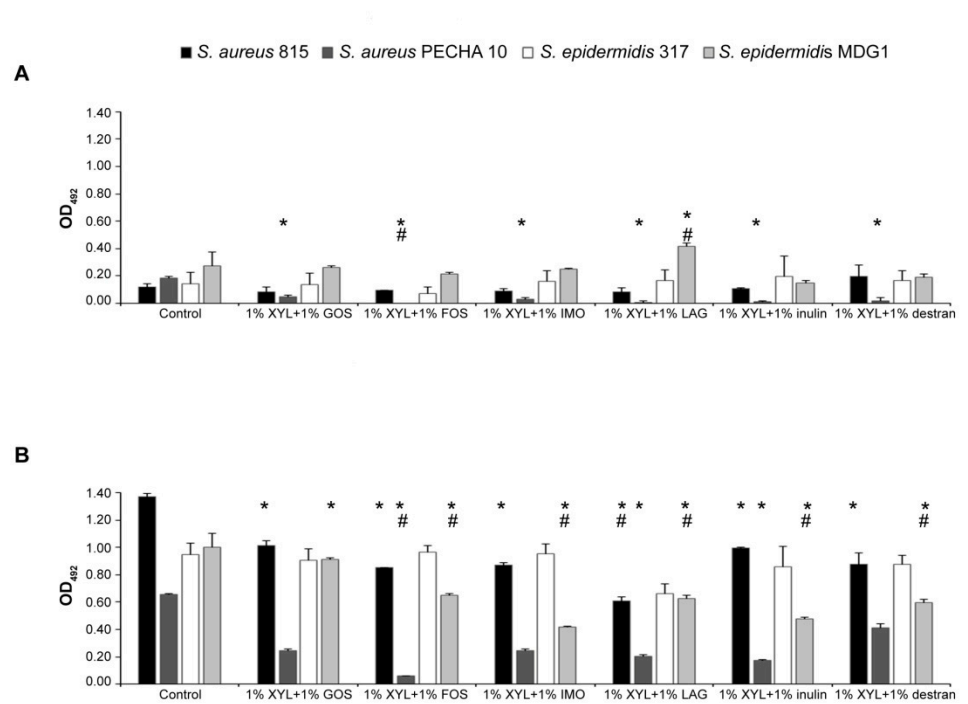


Figure S4. Biomass quantification (OD_{492}) of *S. aureus* 815, *S. aureus* PECHA 10, *S. epidermidis* 317 and *S. epidermidis* MDG1 biofilm formation after treatment with 1% XYL and 1% FOS or IMO or LAG or inulin or dextran at 3 h (A) and 24 h (B), respectively. *statistically significant in respect to the control ($p < 0.05$).#statistically significant in respect to the RC (1% XYL + 1% GOS)($p < 0.05$). For abbreviations, see materials and methods.