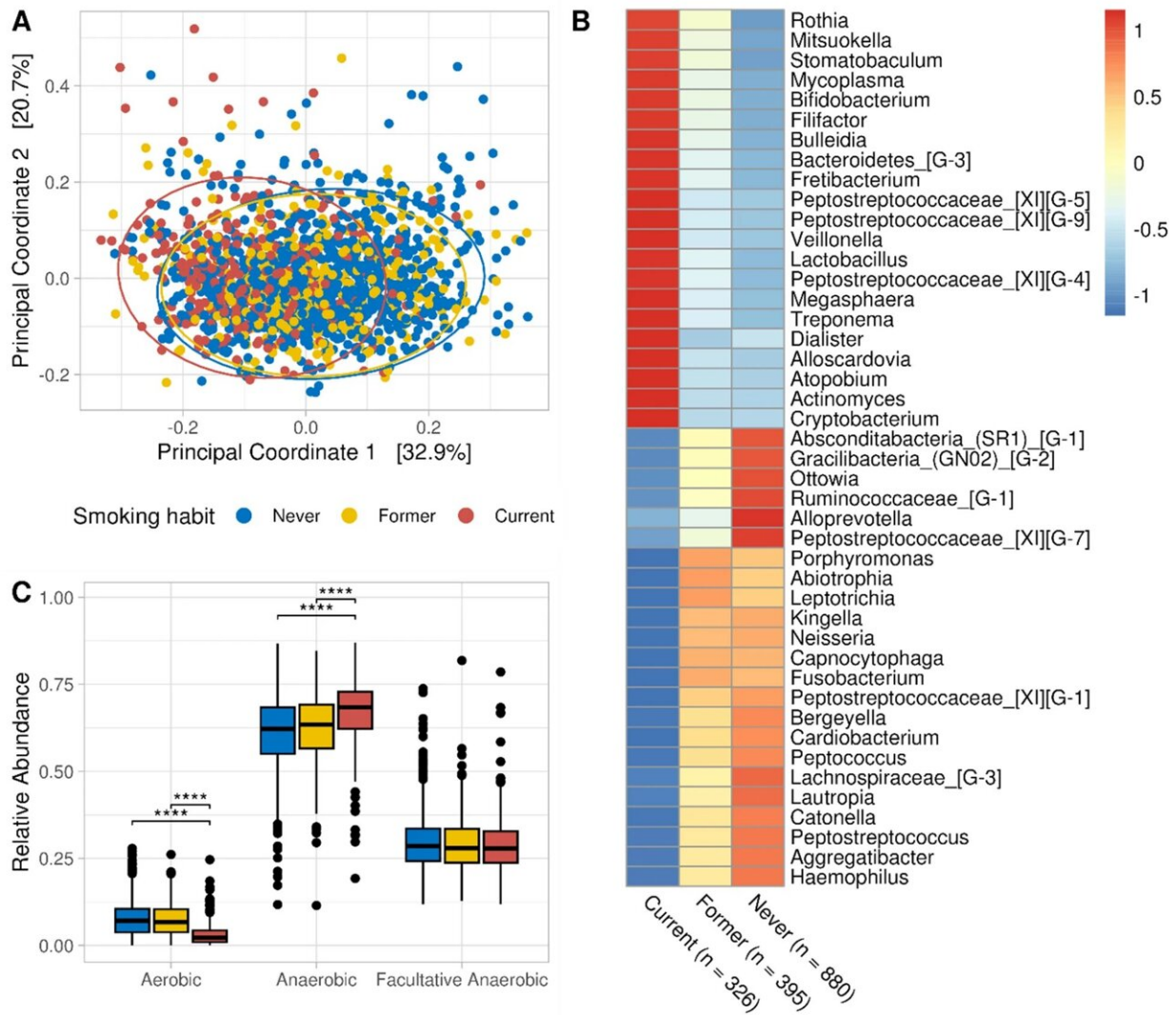# Examining what smoking does to oral bacteria

November 29 2023, by Barbara Baumgartner

Association between qualitative smoking habits (Never, Former and Current) and the salivary microbiota in the CHRISMB cohort. (**A**) Principal Coordinate Analysis on the Bray–Curtis dissimilarity at genus level. Confidence areas (95%)

were drawn as ellipses. Group separations were mild but significant (PERMANOVA $R^2 = 0.04$, $p = 0.001$, beta-dispersity $p = 0.104$). Axes x and y were chosen as the principal components which explained most of the overall microbiota variability, which is shown in square brackets. (**B**) Heatmap of the 44 genera differentially abundant between Current and Never smokers. Each genus was transformed to relative abundance and Z-score scaled. Red and blue colors indicate a higher and lower mean abundance, respectively, while yellow colors indicate no difference. Genera reported in the figure were differentially abundant (Benjamini–Hochberg q-value

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