



**Additional file: Figure S6.** Average feature importances from whitey-metabolite random forest runs related to the results of randomly permuted models. Distributions of metabolite feature importance's from 100, 250 and 500 permuted models are plotted in blue, orange and green respectively. The average feature importance over 5 random forest models is indicated with the purple triangle. Pink triangle: average feature importance minus 2\*Standard Deviation. Red triangle: average feature importance plus 2\*Standard Deviation. Shown are the acylsugars (**A**, **B**) and volatiles (**C**) with an average feature importance significantly deviation from their permuted models.