



**Additional file: Figure S7.** Average feature importances from thrips-metabolite random forest runs related to the results of randomly permuted models. Distributions of metabolite feature importances from 100, 250 and 500 permuted models are plotted in blue, orange and green respectively. The average feature importance from 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. **(A-C)** Volatiles with an average feature importance significantly deviating from their permuted models.