

Supplementary Data

Table S1. List of p -values from multi-variable linear regression models.

Informative variable	t -value (p -value)
BMI	1.367 (0.172)
Hypertension	0.055 (0.956)
Hypercholesterolaemia	-1.321 (0.187)

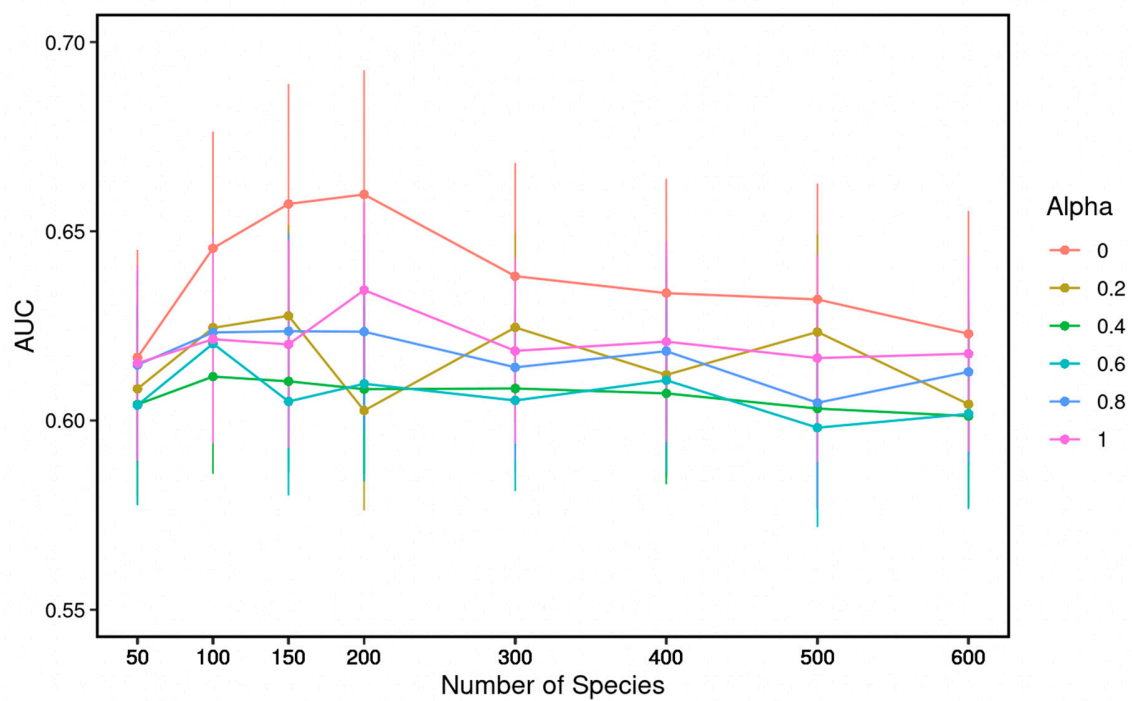


Figure S1. The AUCs from bootstrapping tuning. The range shows mean and 95% confidence intervals.

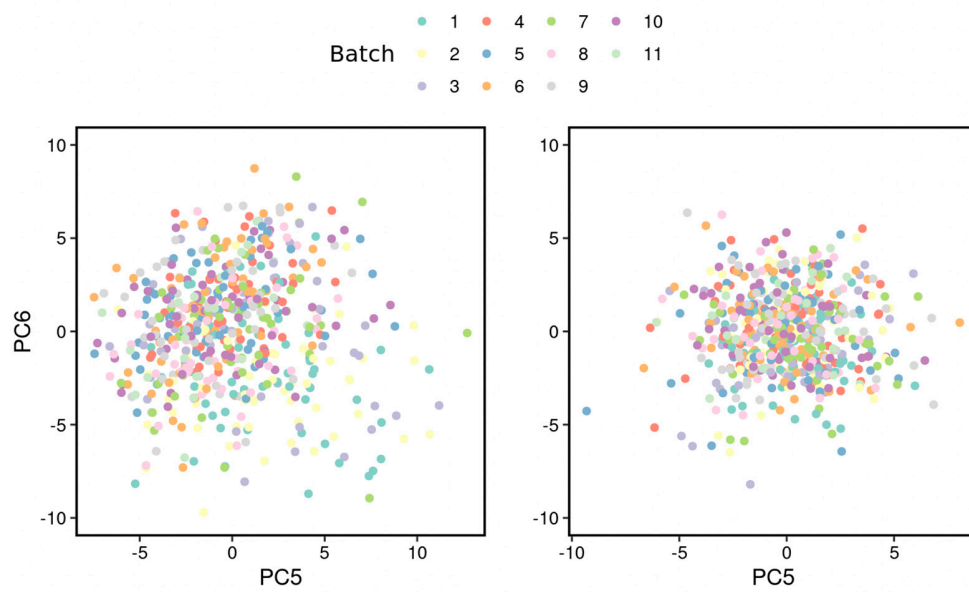


Figure S2. Principle Component Analysis plot for the concentrations of 683 lipid species before and after normalization by batches.

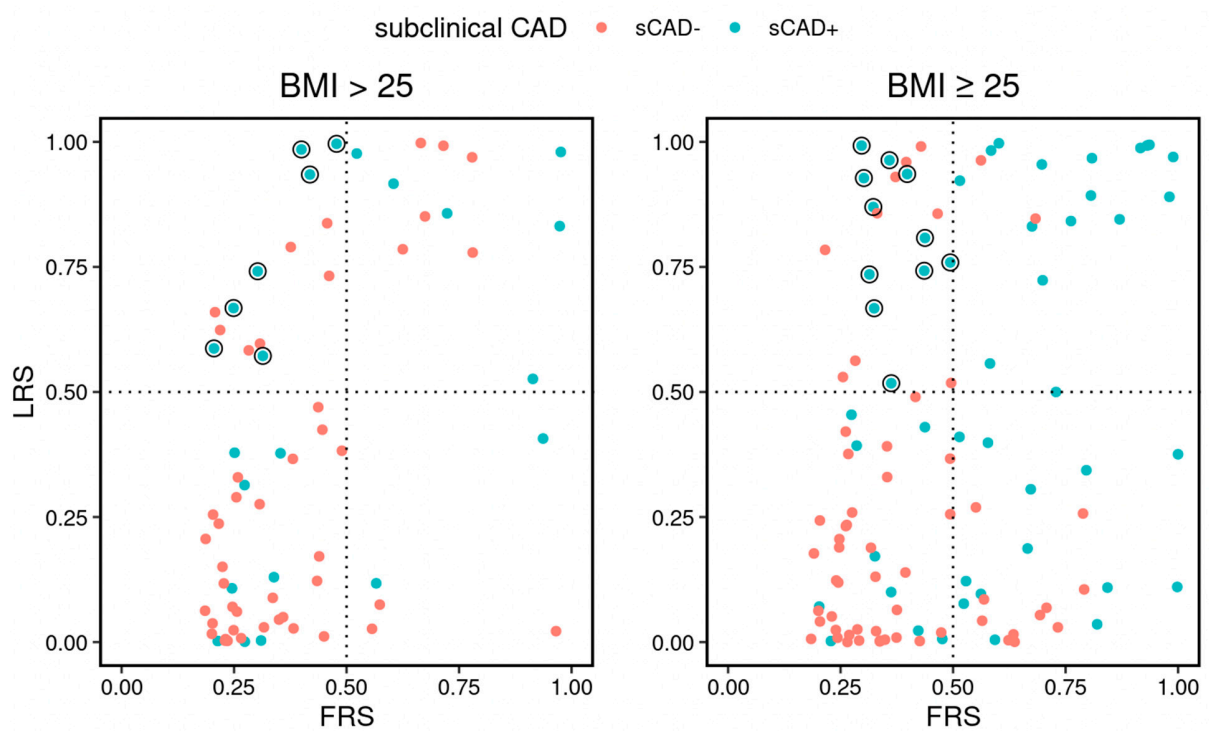


Figure S3. Scatter plots of predictive probability by LRS and FRS in two BMI sub-groups. The circles indicate individuals that can be precisely predicted by LRS but overlooked by the FRS model.