Distribution of R² (High-mannose)

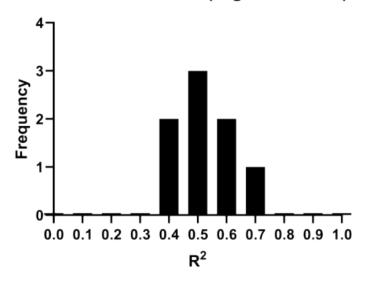
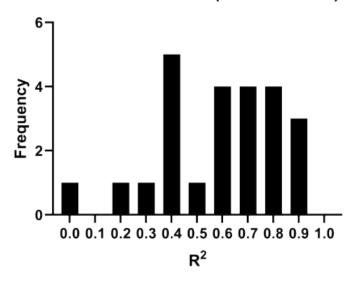


Figure S1. R^2 distribution for high-mannose compounds (total number of compounds = 8).

Distribution of R² (Undecorated)



Distribution of R² (Undecorated, >0.1% abundance)

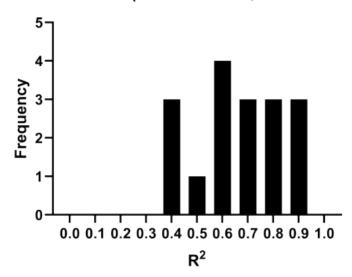
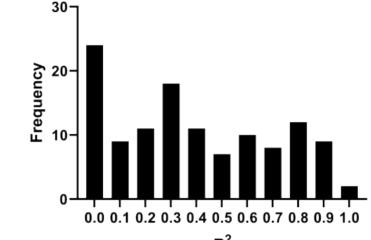


Figure S2. R^2 distribution for undecorated compounds (total number of compounds = 25). Applying an abundance cut-off of >0.1% abundance (total number of compounds = 18) filtered out the models with very poor performance (R^2 <0.3)

Distribution of R² (Fucosylated)



Distribution of R² (Fucosylated, >0.05% abundance)

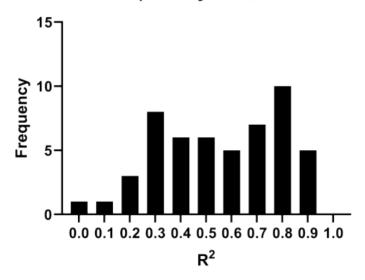


Figure S3. R^2 distribution for fucosylated compounds (total number of compounds = 121). Applying an abundance cut-off of >0.05% abundance (total number of compounds = 52) filtered out the models with very poor performance (R^2 <0.3)

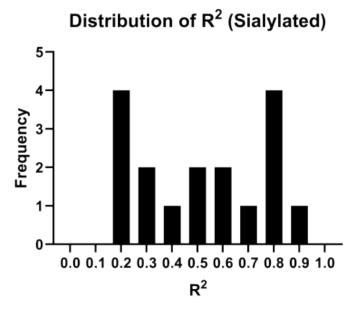
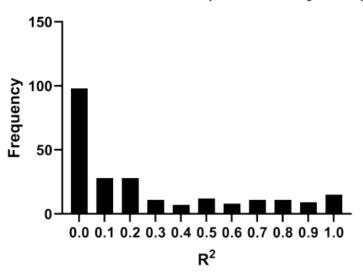


Figure S4. R^2 distribution for sialylated compounds (total number of compounds = 17).

Distribution of R² (Sialofucosylated)



Distribution of R² (Sialofucosylated, >0.05% abundance)

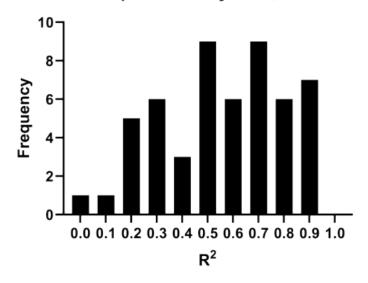


Figure S5. R^2 distribution for sialofucosylated compounds (total number of compounds = 238). Applying an abundance cut-off of >0.05% abundance (total number of compounds = 41) filtered out the models with very poor performance (R^2 <0.3)