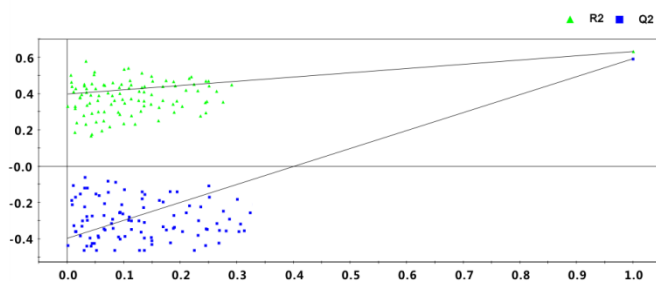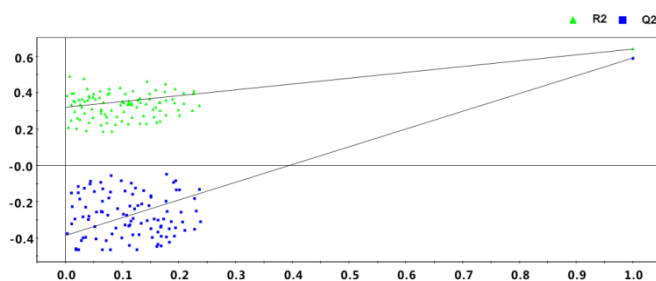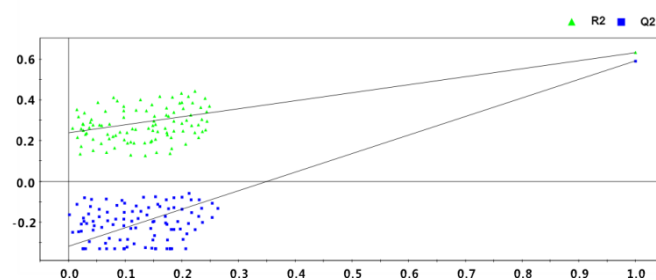**Supplementary**

S1: Permutation test plot for the OPLS model of LDL (number of permutations, 100; intercepts: $R^2$=0.0, 0.02; $Q^2$=0.0, -0.04).



S2: Permutation test plot for the OPLS model of HDL (number of permutations, 200; intercepts: $R^2$=0.0, 0.03; $Q^2$=0.0, -0.06).



S3: Permutation test plot for the OPLS model of TC (number of permutations, 200; intercepts: $R^2$=0.0, 0.01; $Q^2$=0.0, -0.07).



S4: Permutation test plot for the OPLS model of LDL (number of permutations, 200; intercepts: $R^2$=0.0, 0.02; $Q^2$=0.0, -0.03).