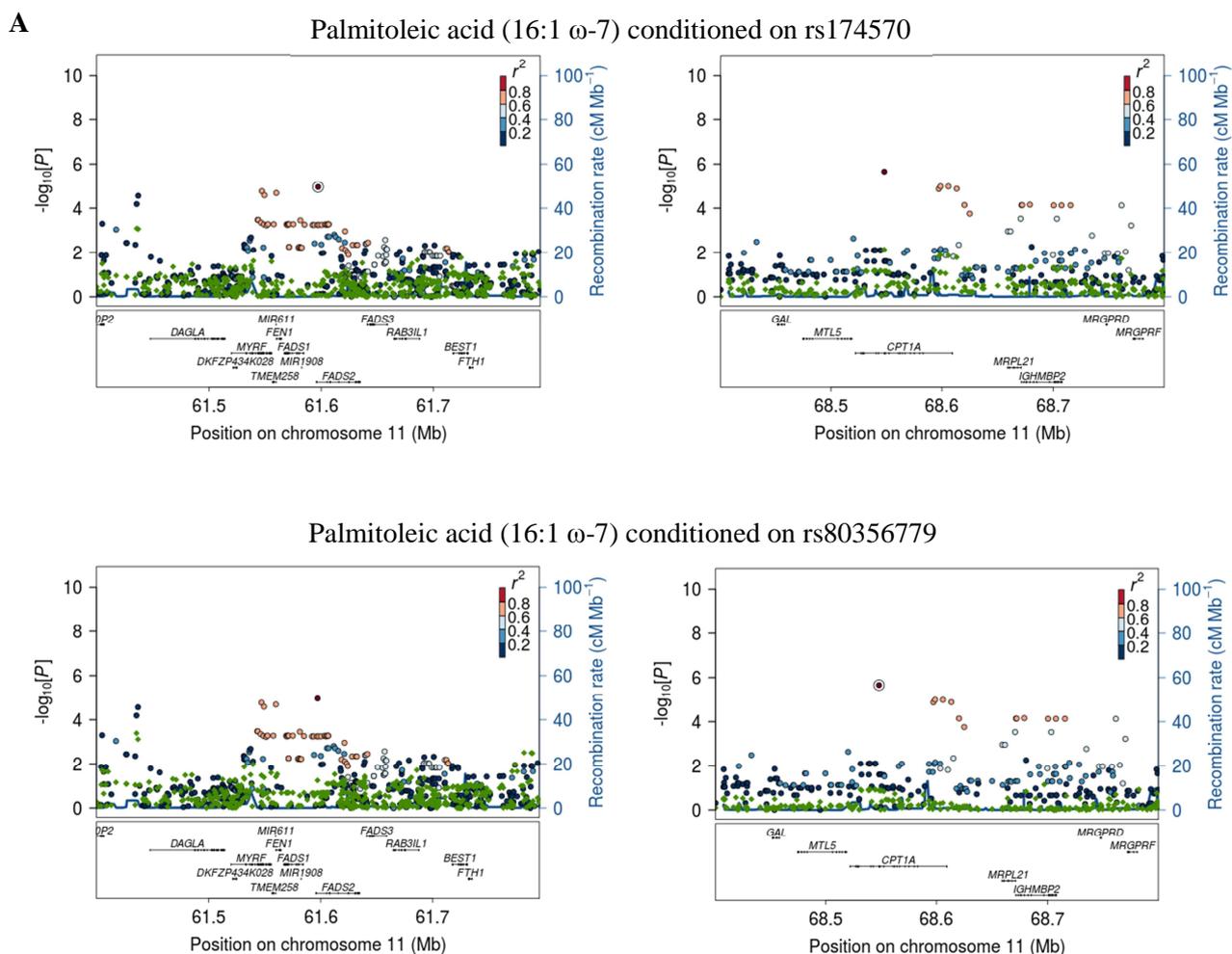
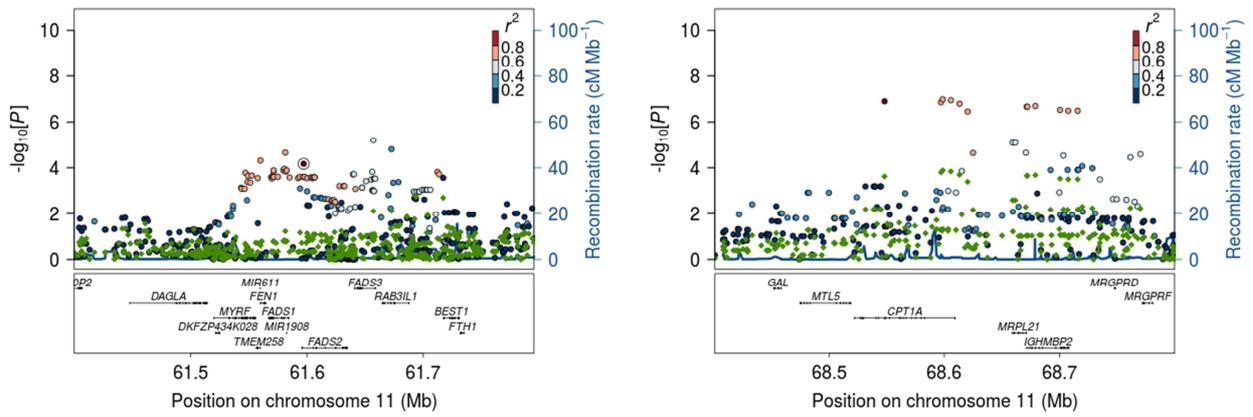


S4 Fig. Association and conditional plots. Unconditional and conditional association analyses for rs174570 and rs80356779 in the *FADS2* and *CPT1A* loci, respectively, with A) palmitoleic acid (16:1 ω -7), B) stearic acid (18:0), C) oleic acid (18:1 ω -9), D) linoleic acid (*cis-cis*-18:2 ω -6), E) gamma-linolenic acid (18:3 ω -6), F) arachidic acid (20:0), G) 11-eicosenoic acid (20:1 ω -9), H) dihomo-gamma-linolenic acid (20:3 ω -6), I) arachidonic acid (20:4 ω -6), J) behenic acid (22:0), K) erucic acid (22:1 ω -9), L) adrenic acid (22:4 ω -6), M) docosapentaenoic acid (22:5 ω -3), N) lignoceric acid (24:0), and O) nervonic acid (24:1 ω -9). The association results of the unconditional analysis are colored according to the LD, which is calculated for the candidate SNP in the region. Green dots represent the results of the conditional analysis, and the circles denote the SNPs conditioned on. The p-values are based on imputation data.

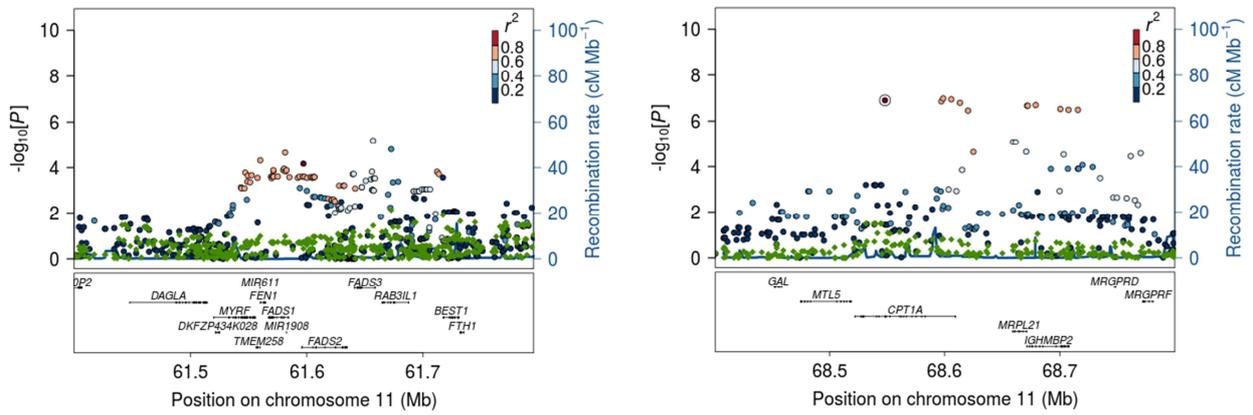
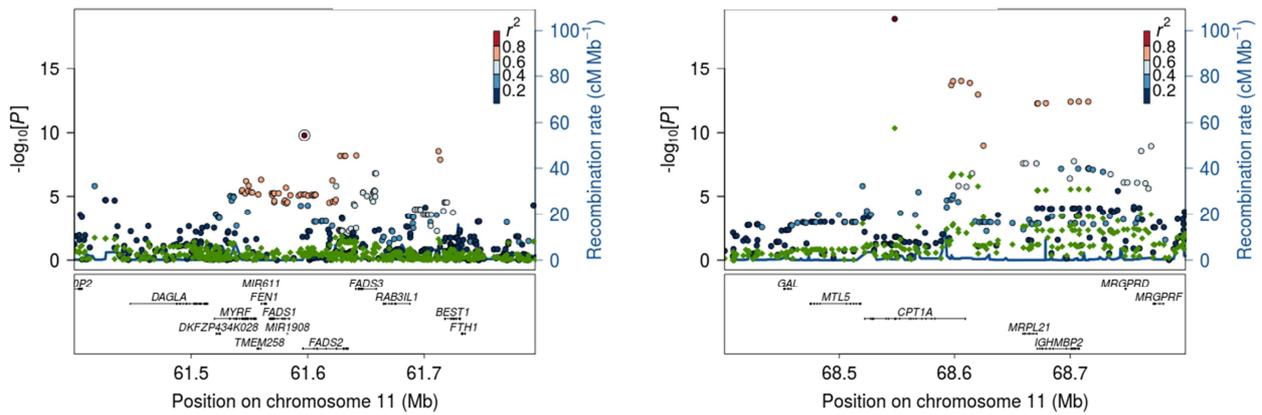


B

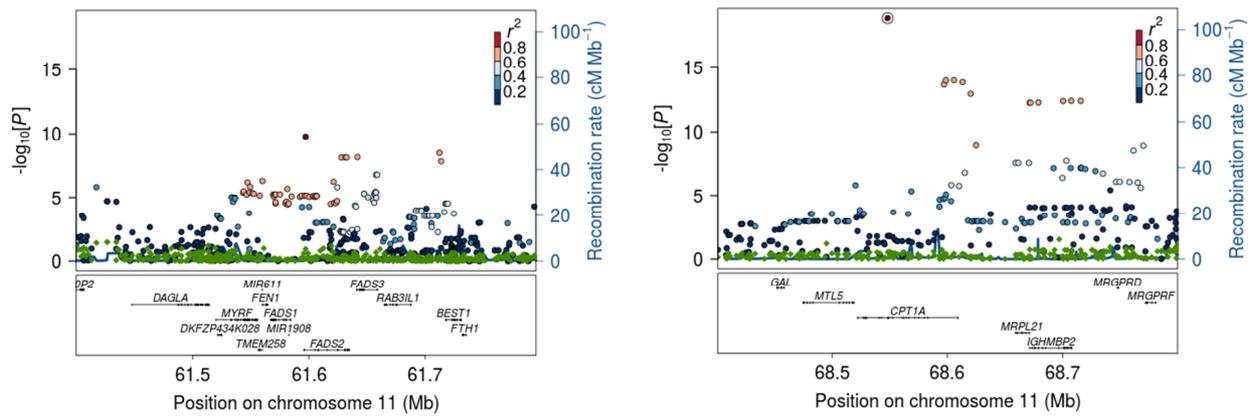
Stearic acid (18:0) conditioned on rs174570



Stearic acid (18:0) conditioned on rs80356779

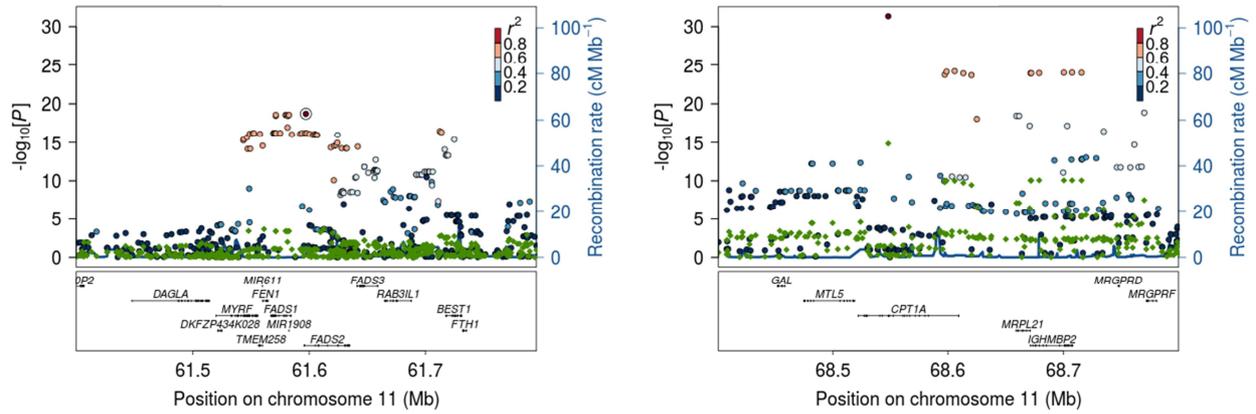
**C**Oleic acid (18:1 ω -9) conditioned on rs174570

Oleic acid (18:1 ω -9) conditioned on rs80356779

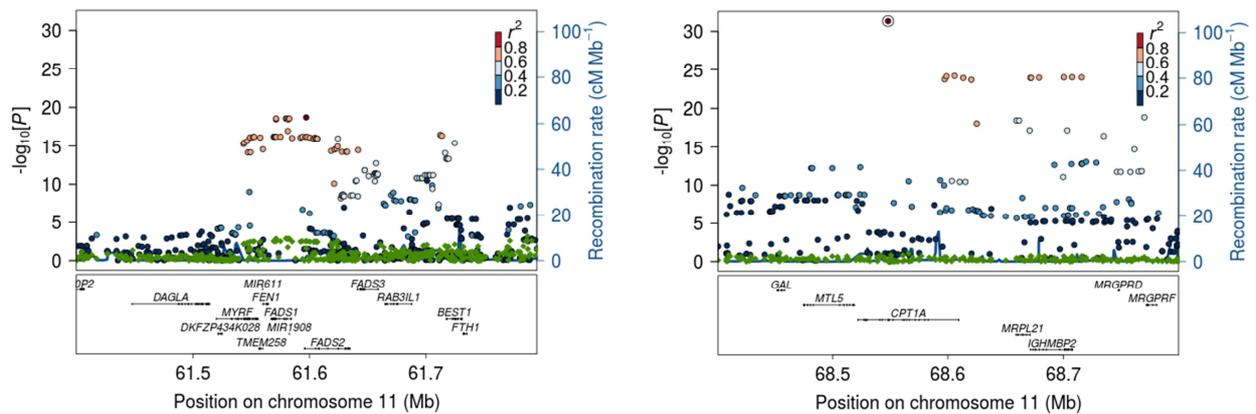


D

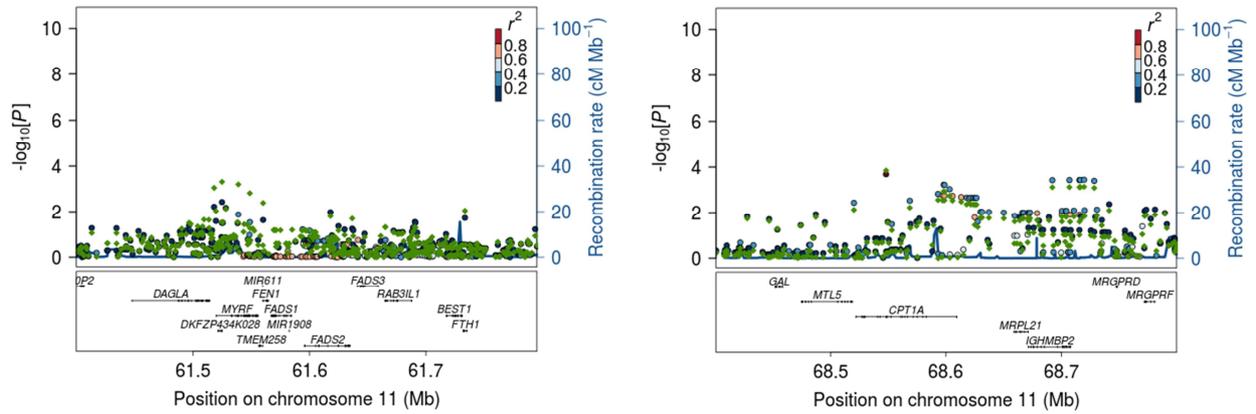
Linoleic acid (*cis-cis*-18:2 ω -6) conditioned on rs174570



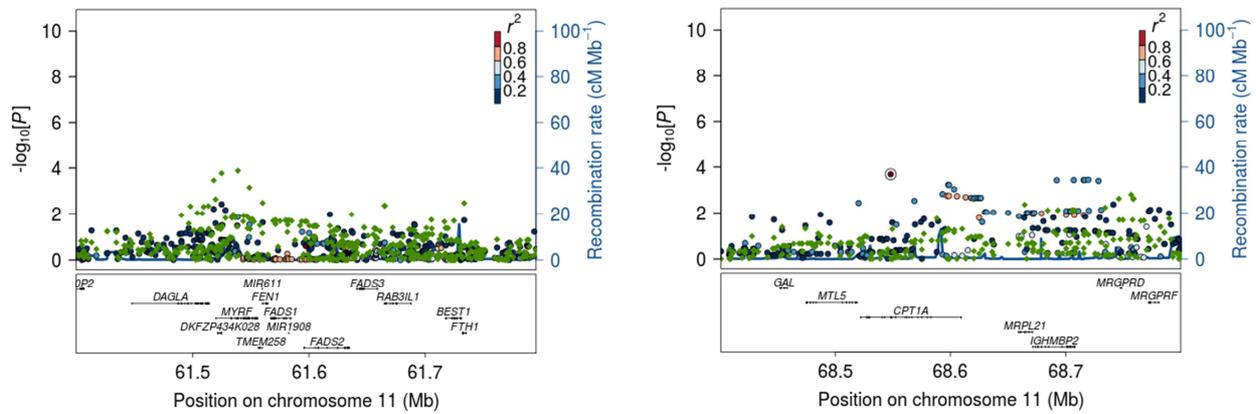
Linoleic acid (*cis-cis*-18:2 ω -6) conditioned on rs80356779



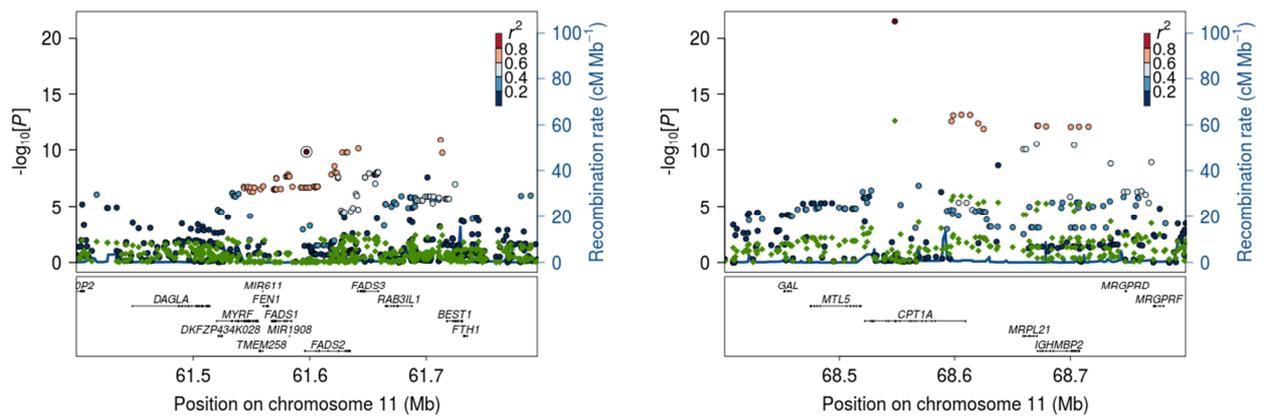
E Gamma-linolenic acid (18:3 ω-6) conditioned on rs174570



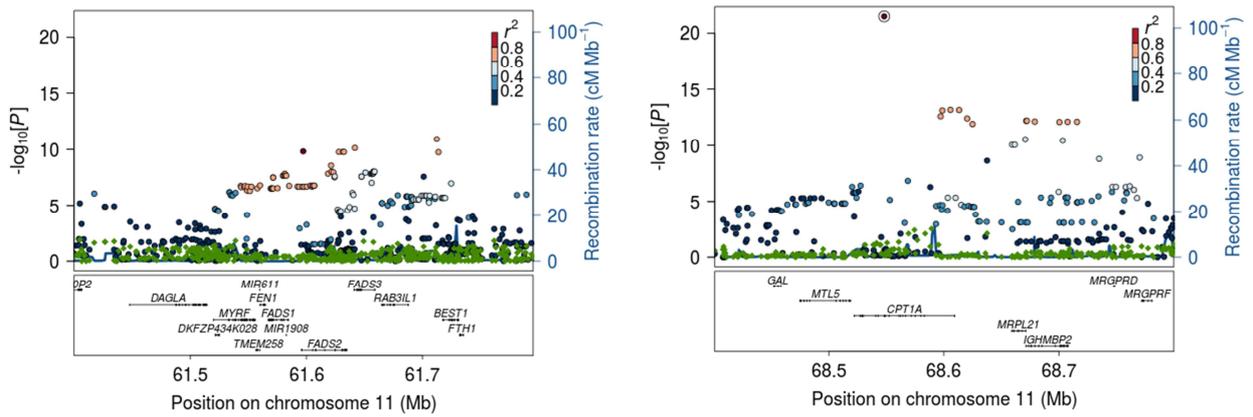
Gamma-linolenic acid (18:3 ω-6) conditioned on rs80356779



F Arachidic acid (20:0) conditioned on rs174570

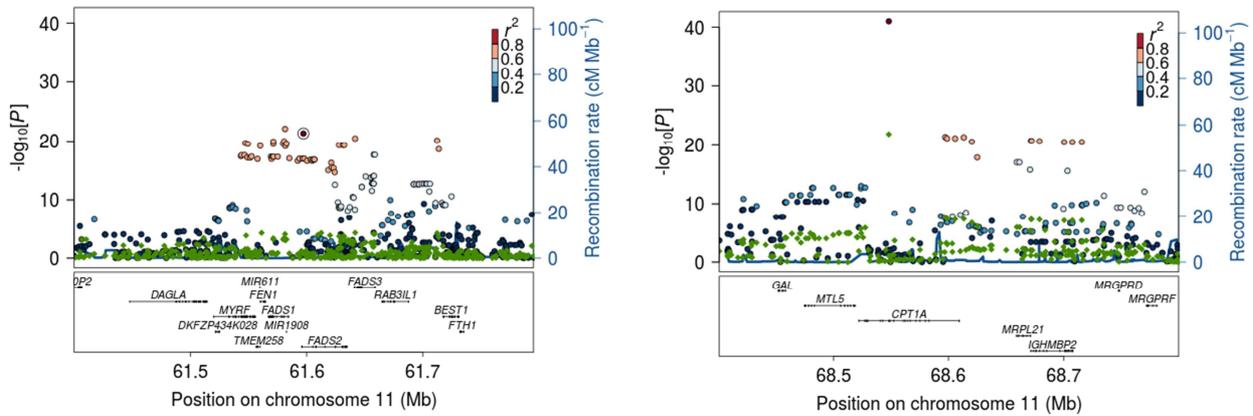


Arachidic acid (20:0) conditioned on rs80356779

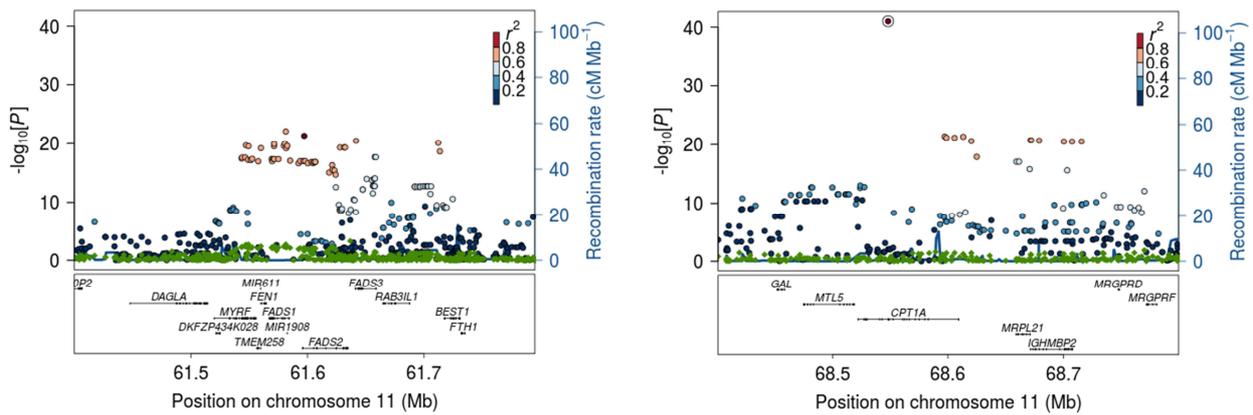


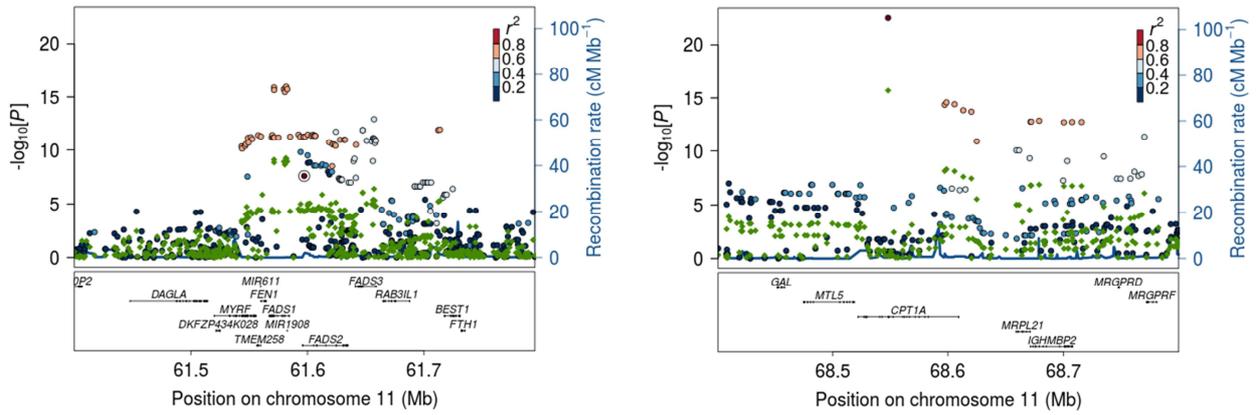
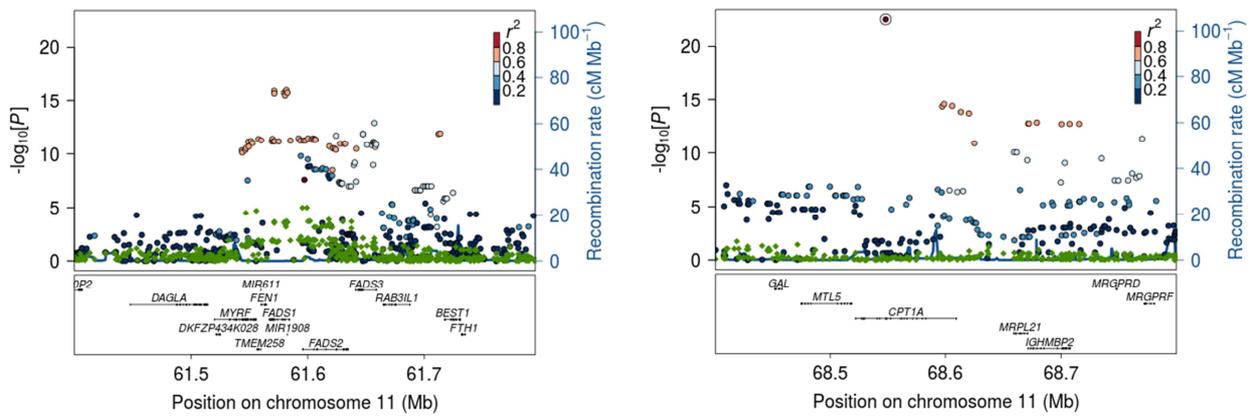
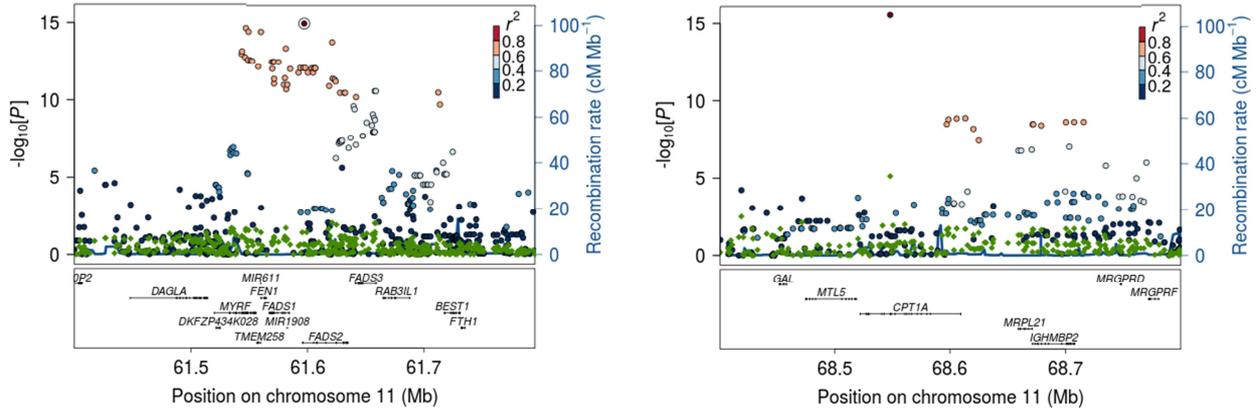
G

11-eicosenoic acid (20:1 ω -9) conditioned on rs174570

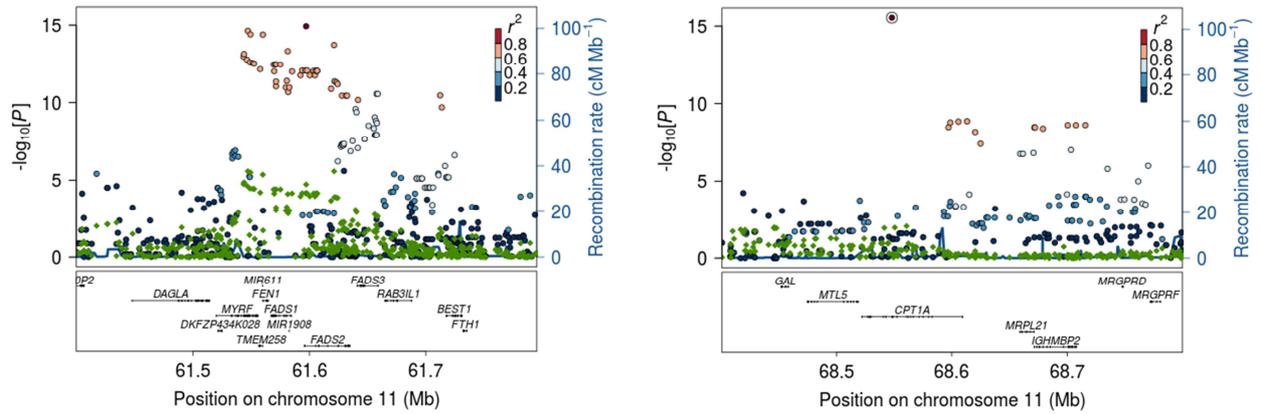


11-eicosenoic acid (20:1 ω -9) conditioned on rs80356779



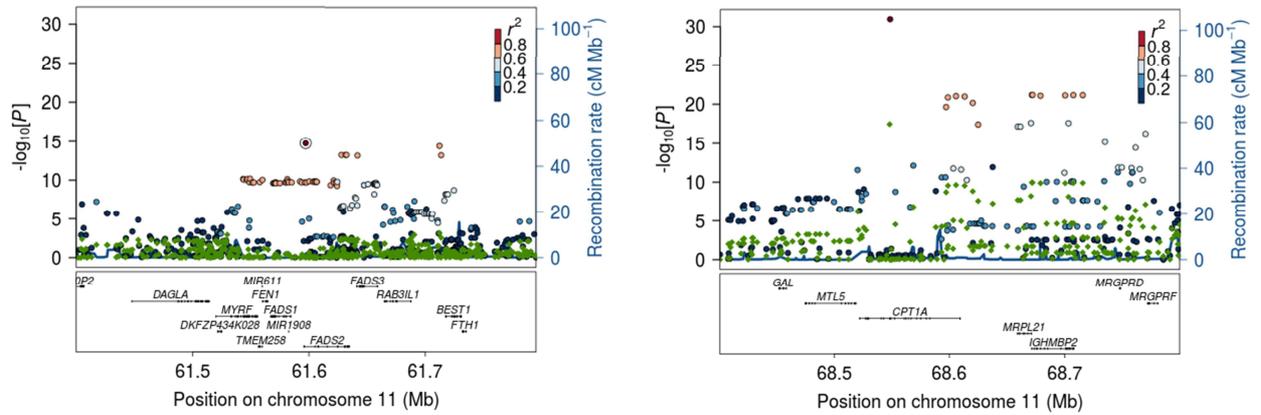
HDihomo-gamma-linolenic acid (20:3 ω -6) conditioned on rs174570Dihomo-gamma-linolenic acid (20:3 ω -6) conditioned on rs80356779**I**Arachidonic acid (20:4 ω -6) conditioned on rs174570

Arachidonic acid (20:4 ω -6) conditioned on rs80356779

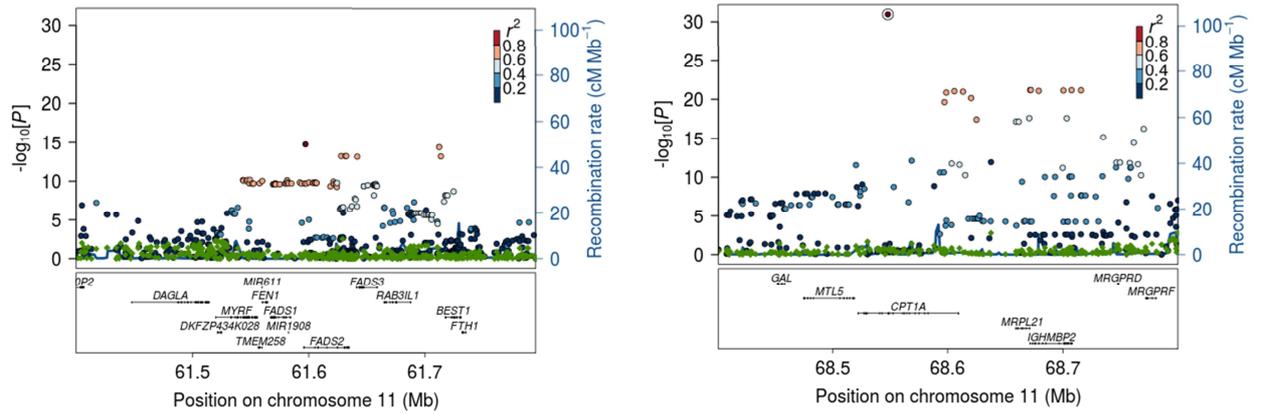


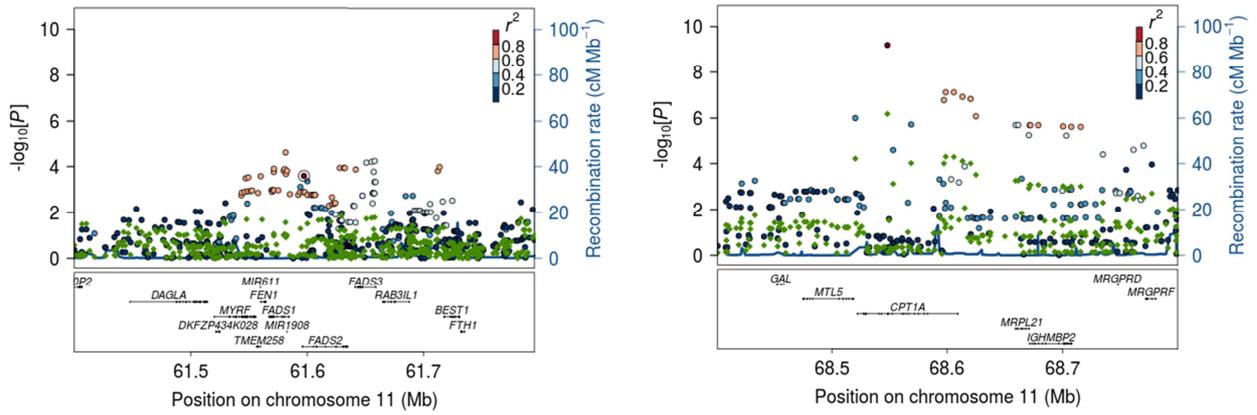
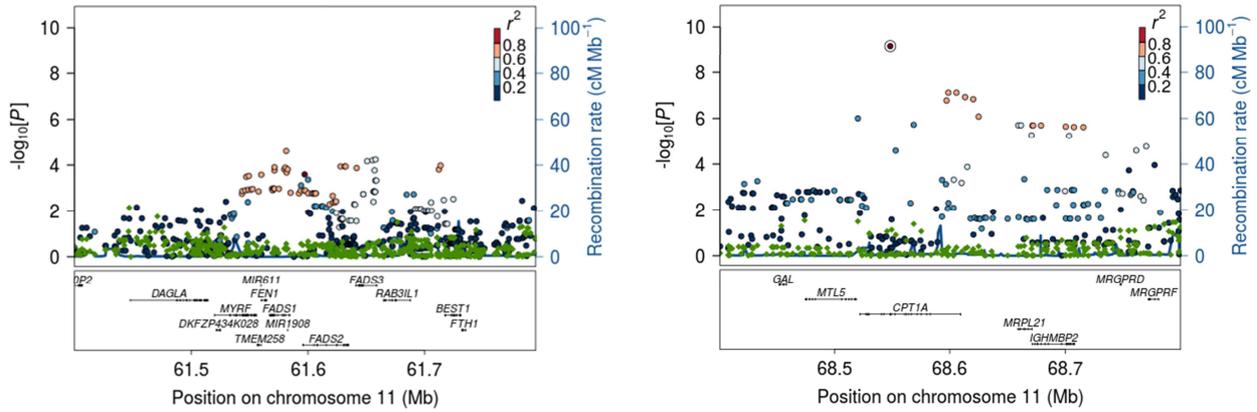
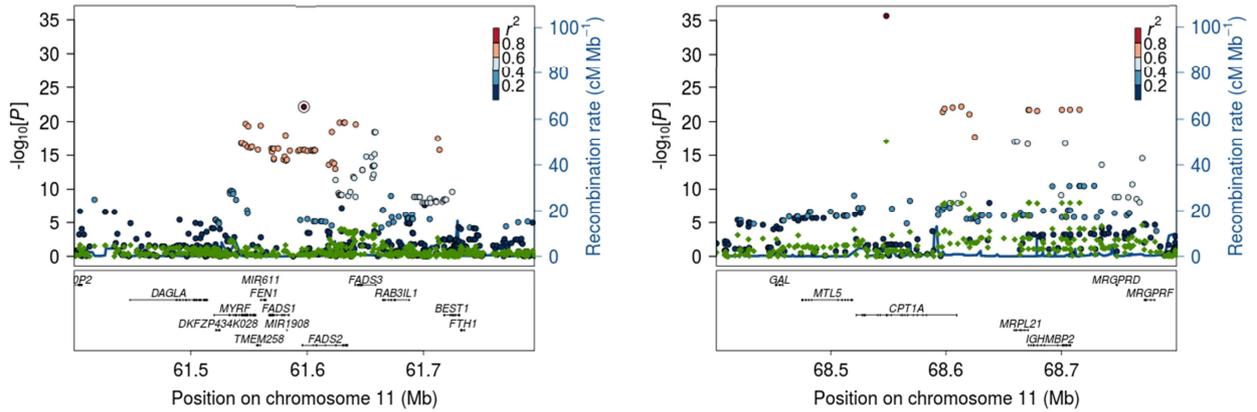
J

Behenic acid (22:0) conditioned on rs174570

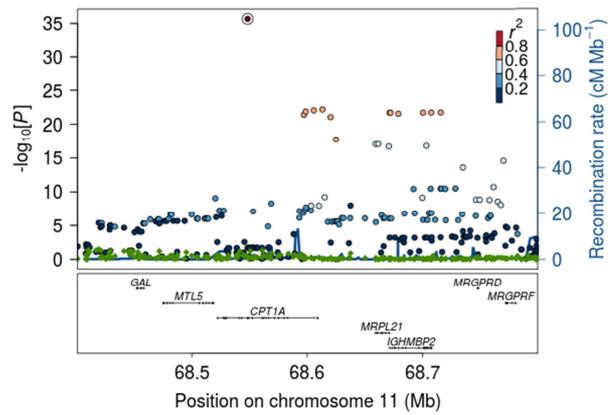
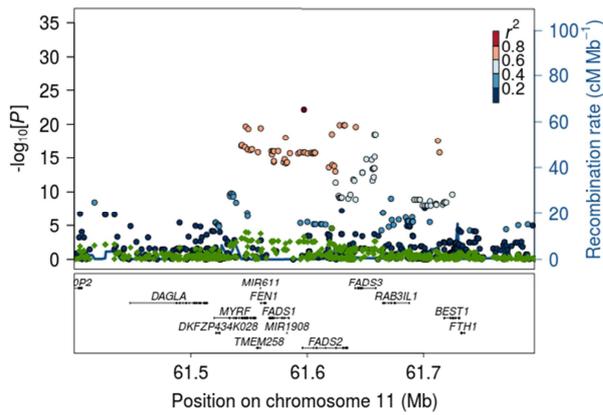


Behenic acid (22:0) conditioned on rs80356779



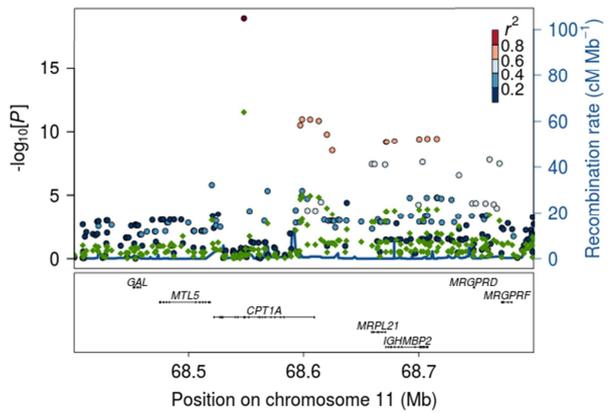
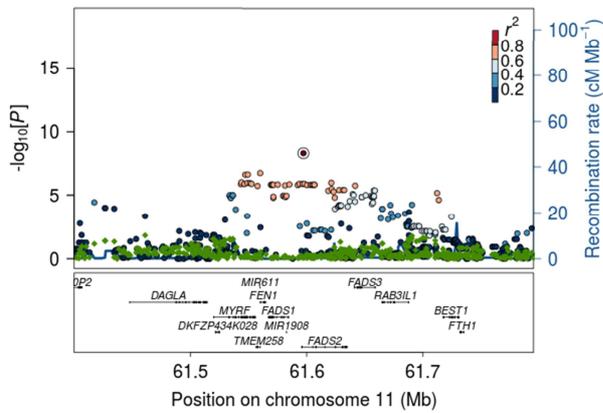
KErucic acid (22:1 ω -9) conditioned on rs174570Erucic acid (22:1 ω -9) conditioned on rs80356779**L**Adrenic acid (22:4 ω -6) conditioned on rs174570

Adrenic acid (22:4 ω -6) conditioned on rs80356779

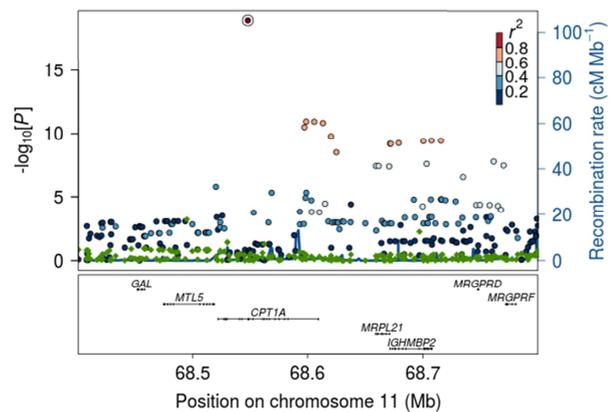
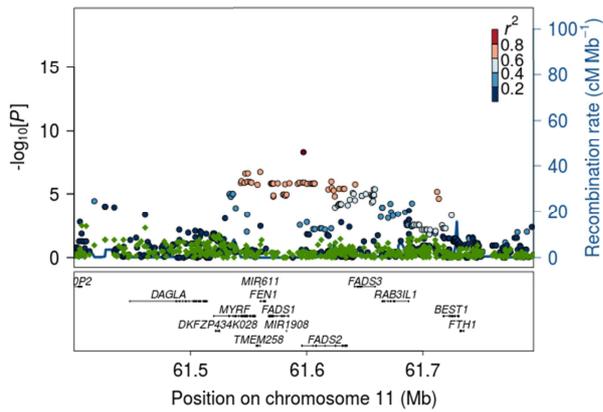


M

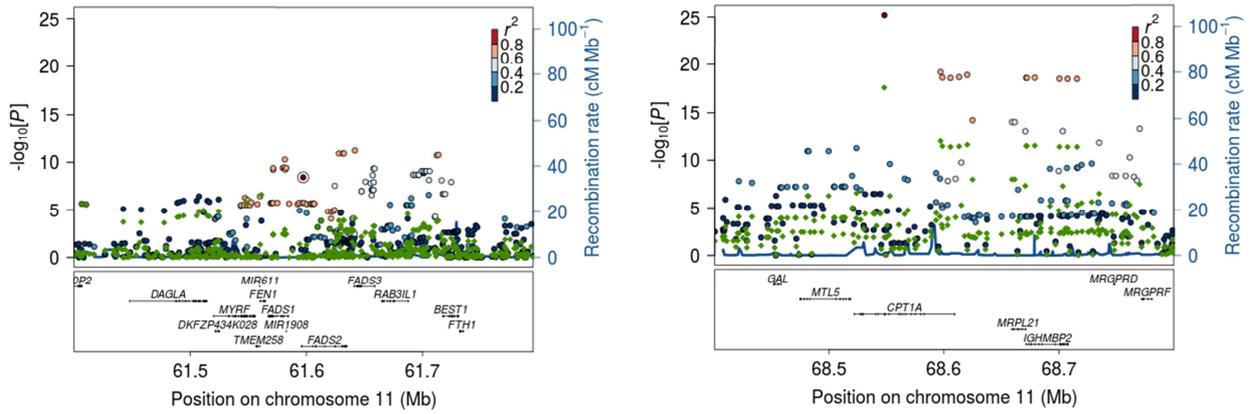
Docosapentaenoic acid (22:5 ω -3) conditioned on rs174570



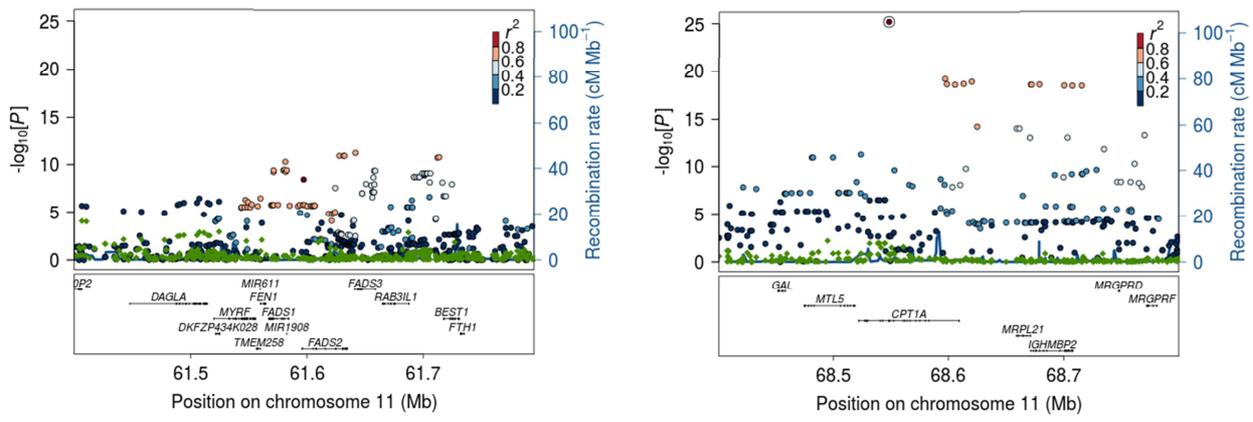
Docosapentaenoic acid (22:5 ω -3) conditioned on rs80356779



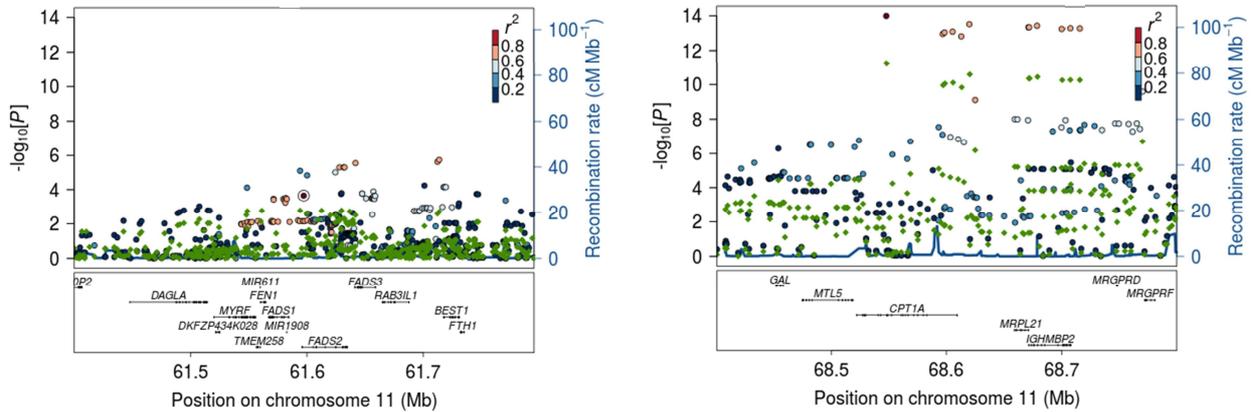
N Lignoceric acid (24:0) conditioned on rs174570



Lignoceric acid (24:0) conditioned on rs80356779



O Nervonic acid (24:1 ω-9) conditioned on rs174570



Nervonic acid (24:1 ω -9) conditioned on rs80356779

