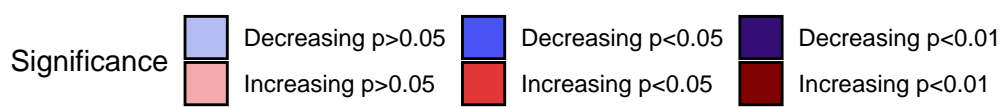
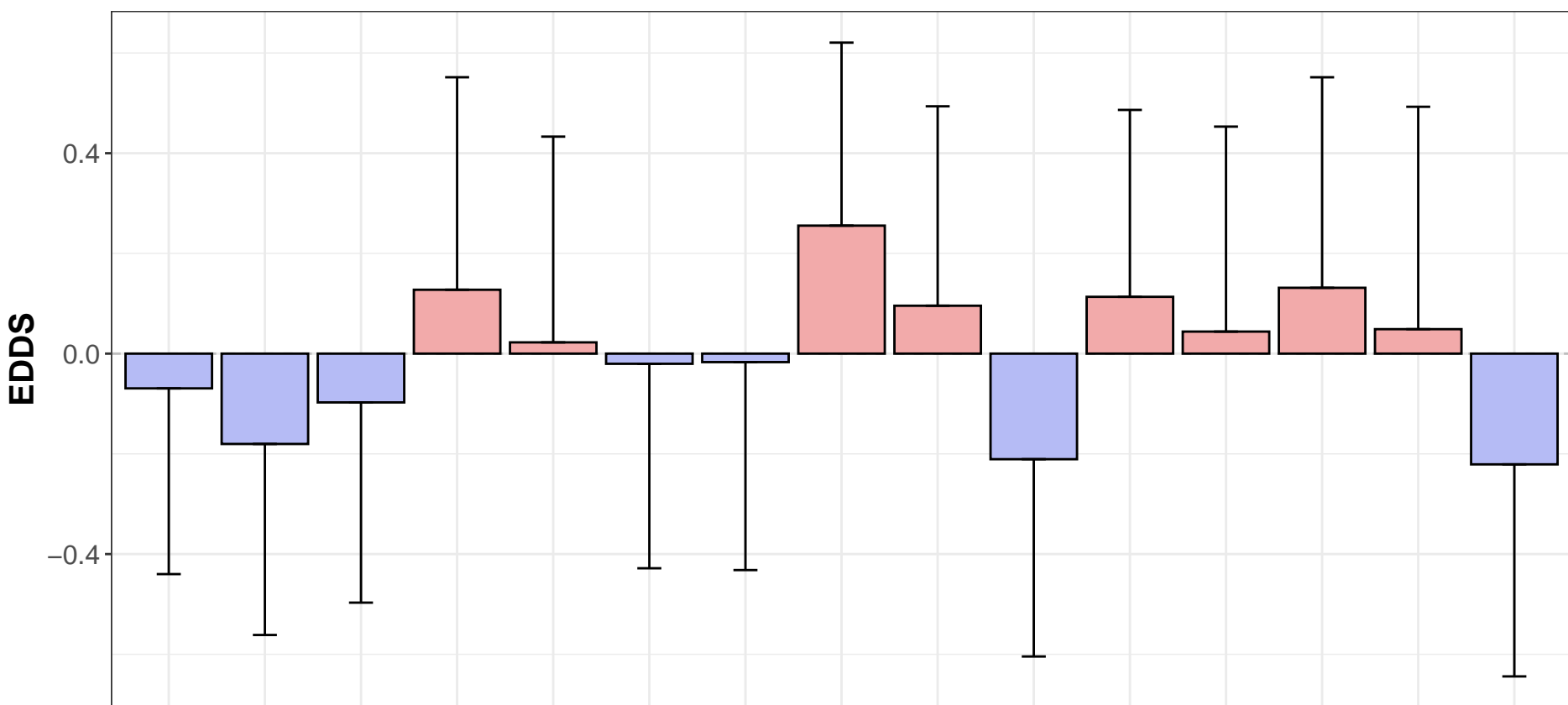
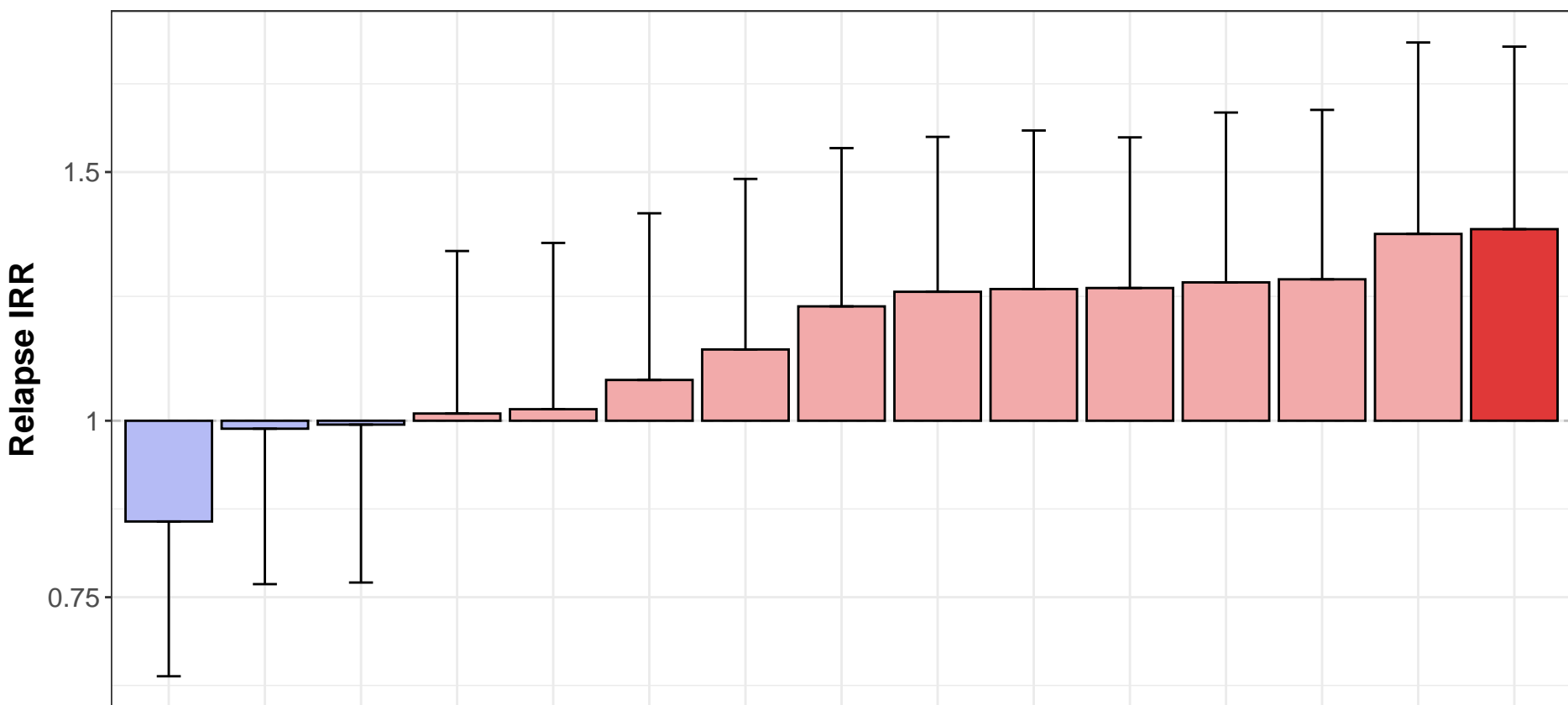
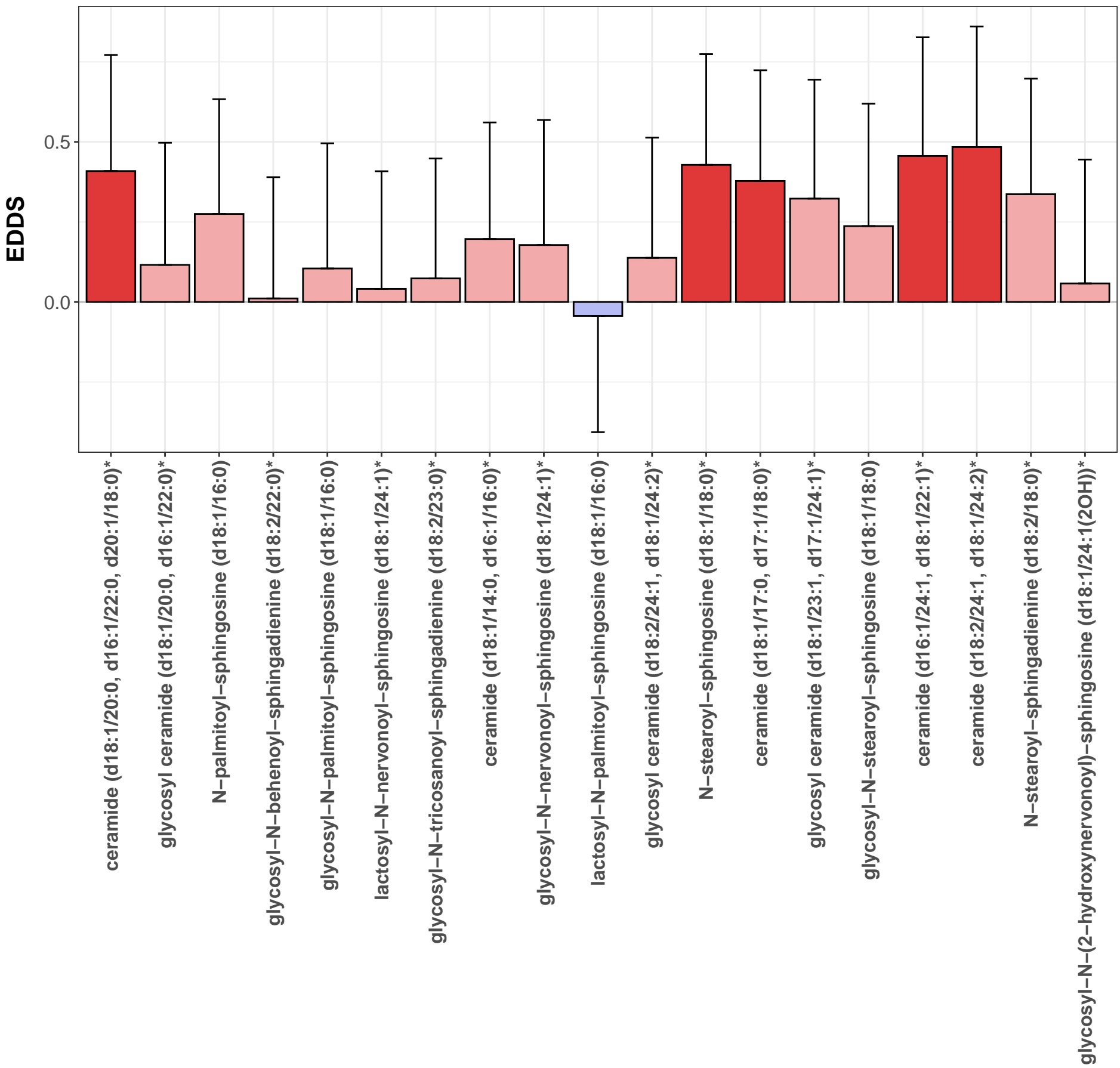
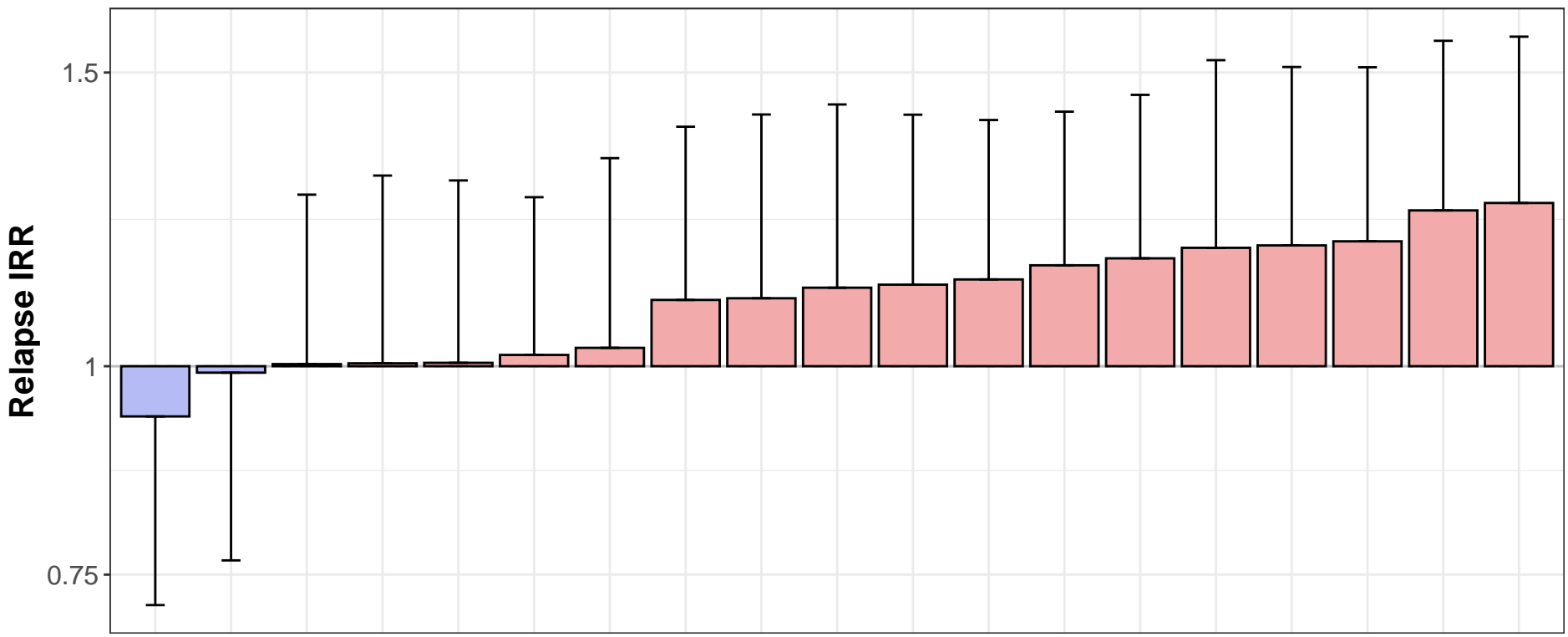


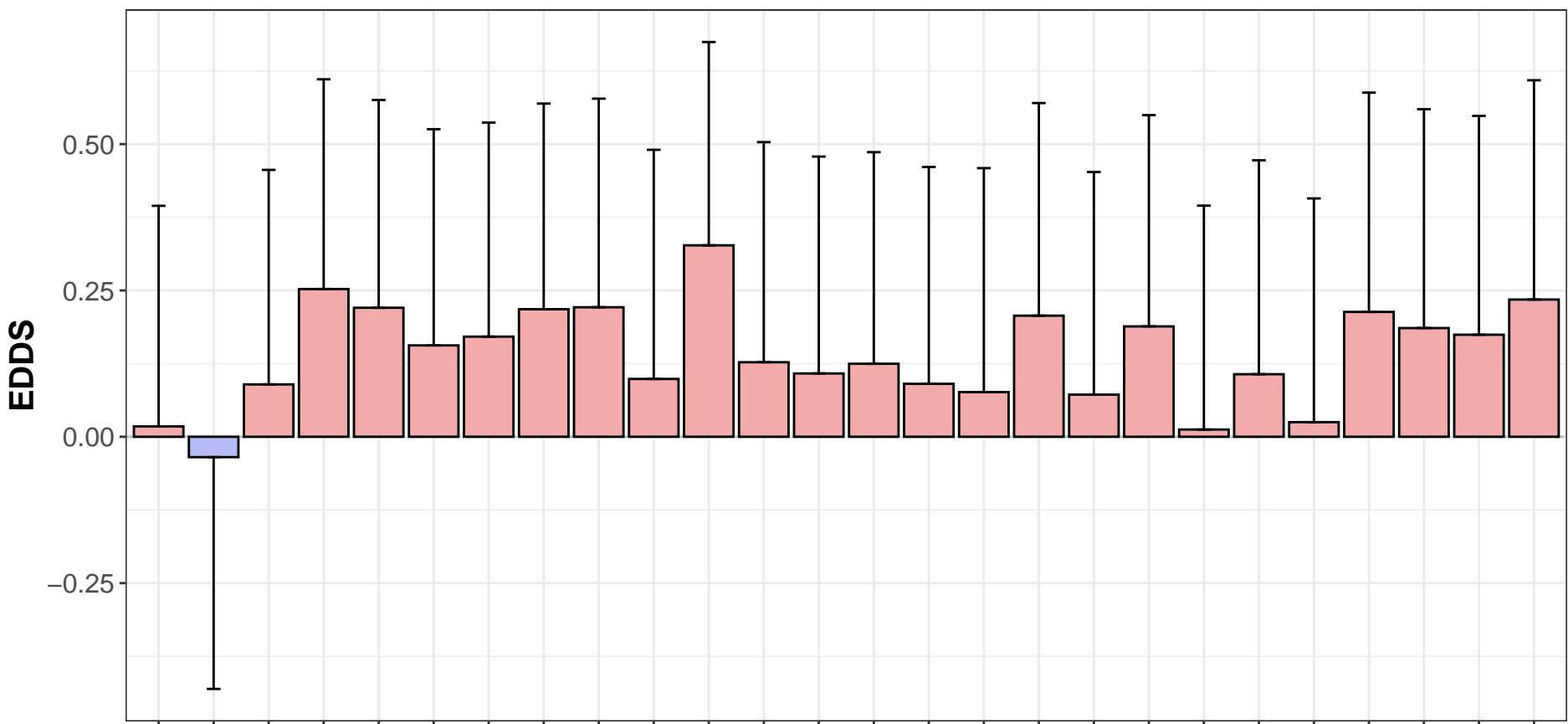
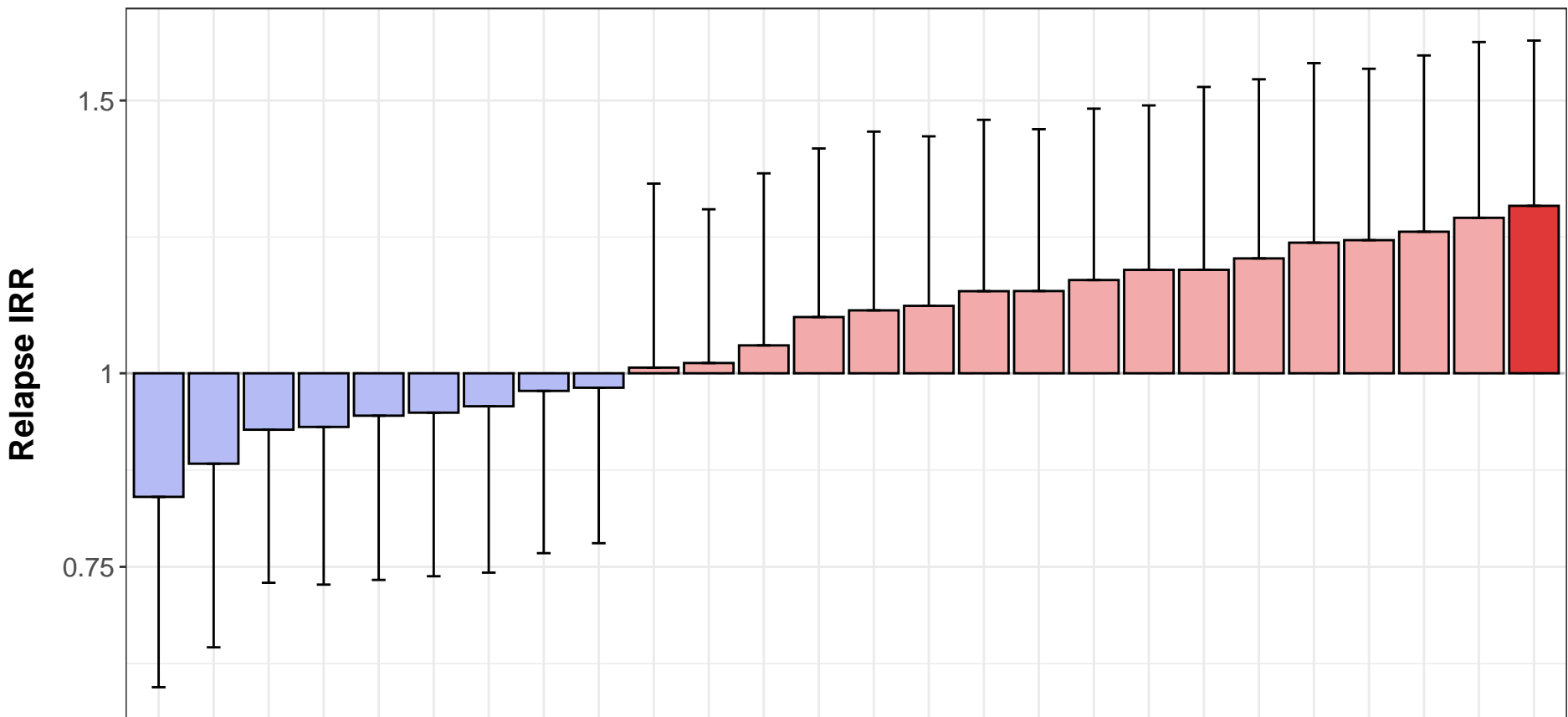
Androgenic Steroids



Ceramides



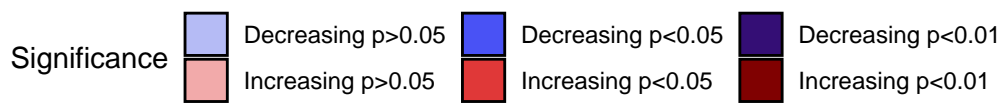
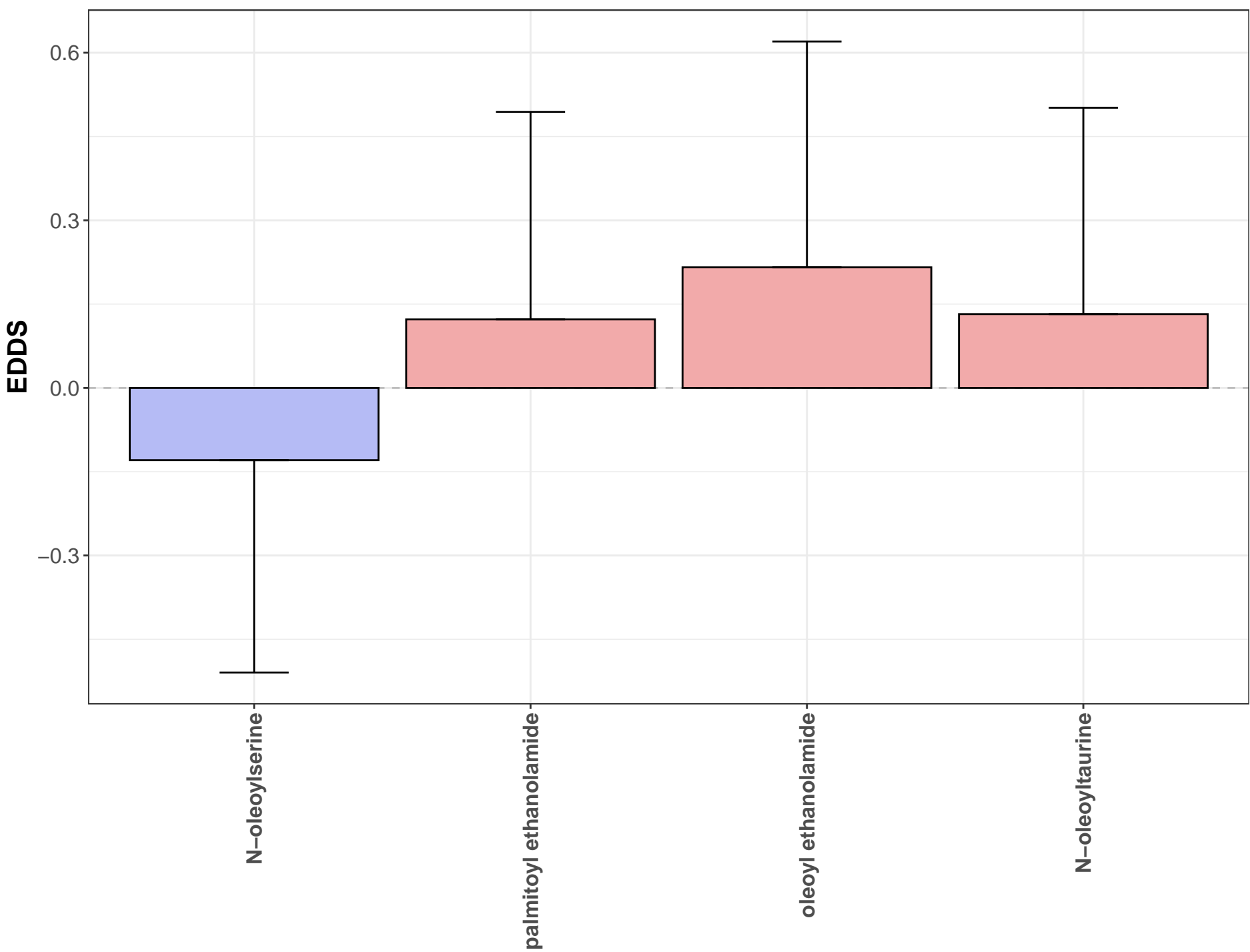
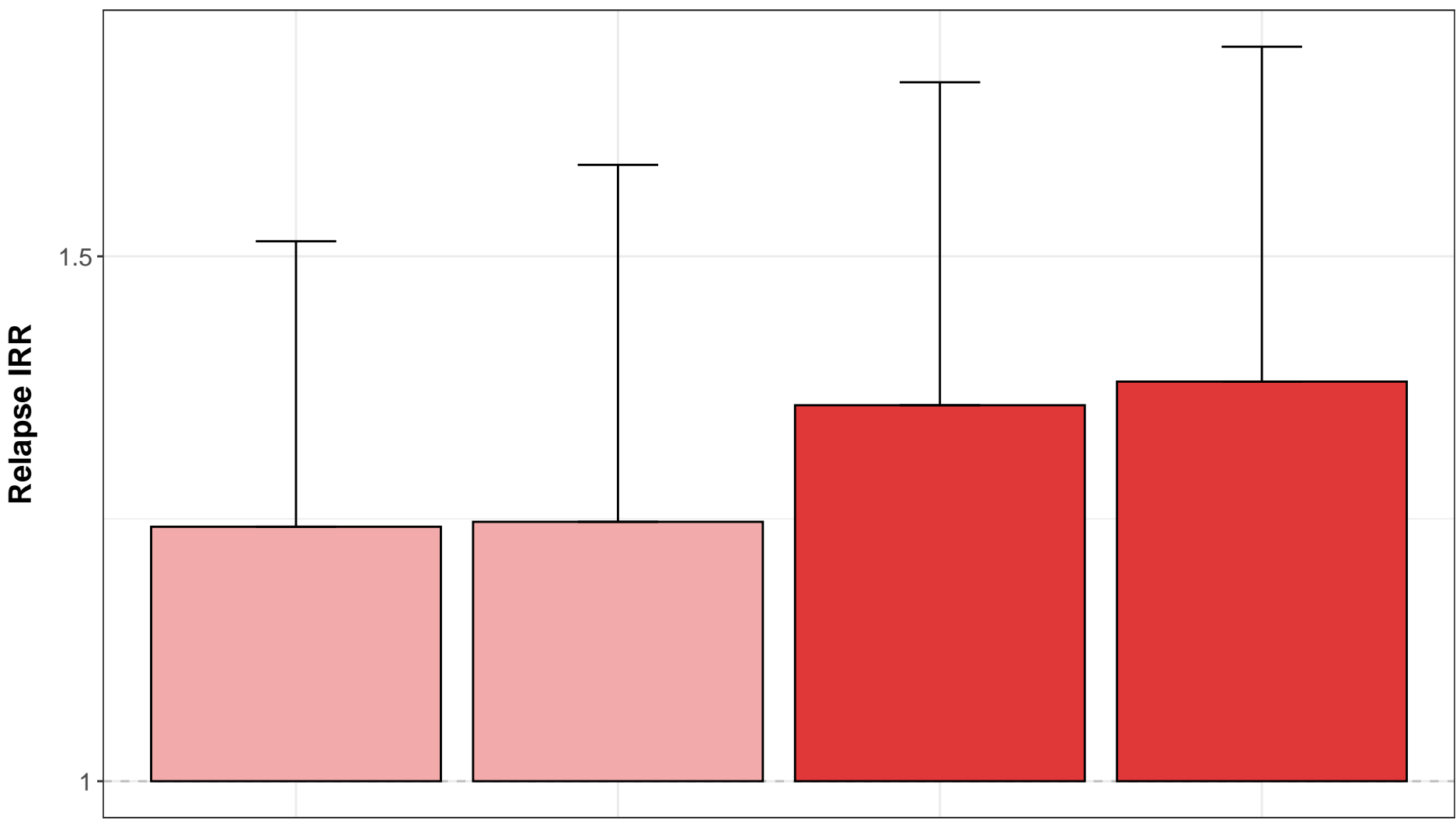
Diacylglycerol



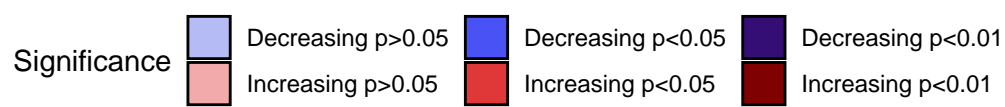
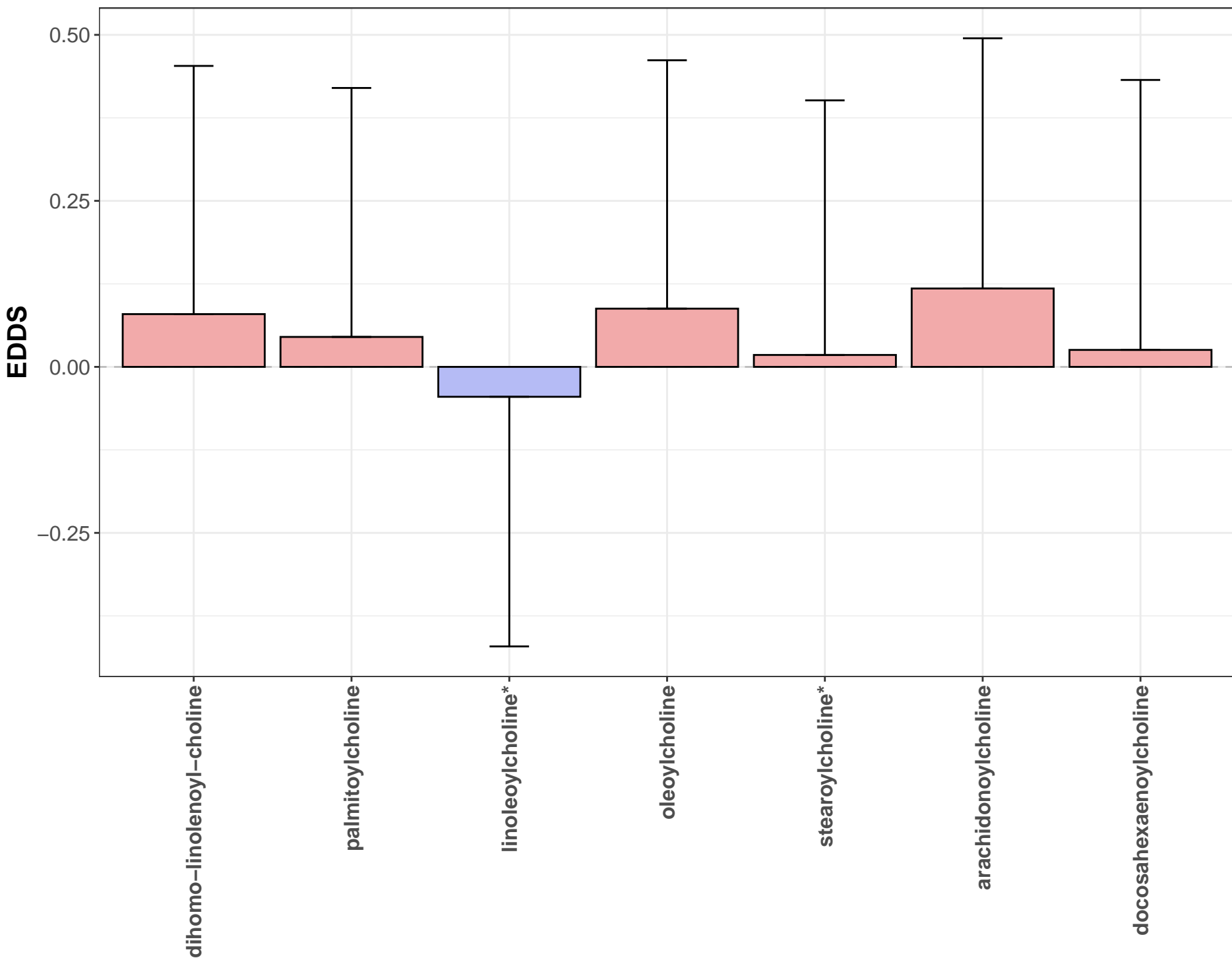
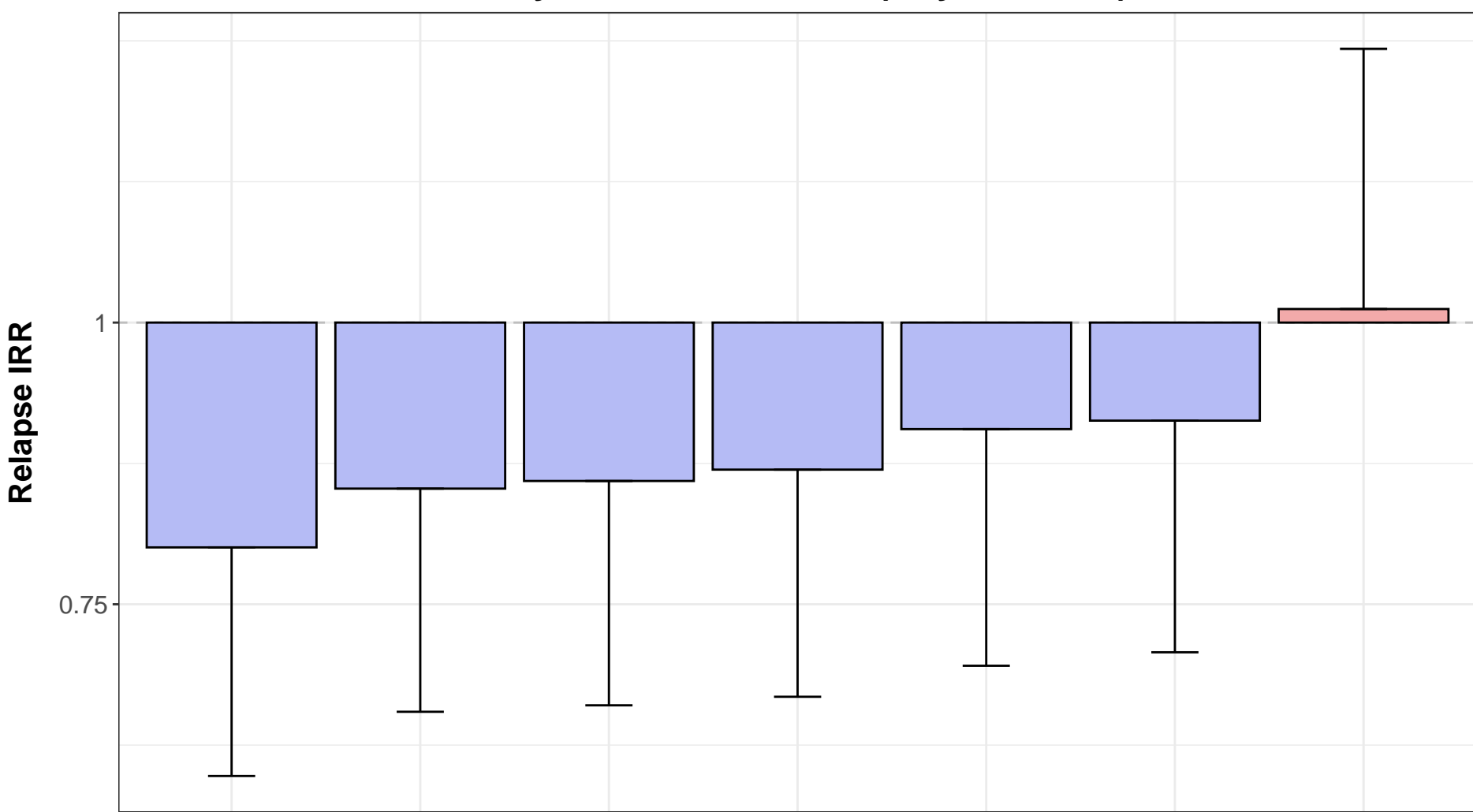
palmitoyl–arachidonoyl–glycerol (16:0/20:4) [1]*
 palmitoyl–palmitoyl–glycerol (16:0/16:0) [2]*
 palmitoyl–arachidonoyl–glycerol (16:0/20:4) [2]*
 linoleoyl–arachidonoyl–glycerol (18:2/20:4) [2]*
 palmitoleoyl–arachidonoyl–glycerol (16:1/20:4) [2]*
 stearoyl–arachidonoyl–glycerol (18:0/20:4) [2]*
 stearoyl–arachidonoyl–glycerol (18:0/20:4) [1]*
 oleoyl–arachidonoyl–glycerol (18:1/20:4) [1]*
 linoleoyl–arachidonoyl–glycerol (18:2/20:4) [1]*
 diacylglycerol (14:0/18:1, 16:0/16:1) [1]*
 oleoyl–arachidonoyl–glycerol (18:1/20:4) [2]*
 diacylglycerol (14:0/18:1, 16:0/16:1) [2]*
 palmitoyl–oleoyl–glycerol (16:0/18:1) [2]*
 oleoyl–linolenoyl–glycerol (18:1/18:3) [2]*
 palmitoyl–oleoyl–glycerol (16:0/18:1) [1]*
 palmitoyl–linoleoyl–glycerol (16:0/18:2) [2]*
 oleoyl–oleoyl–glycerol (18:1/18:1) [2]*
 palmitoyl–linoleoyl–glycerol (16:0/18:2) [1]*
 oleoyl–oleoyl–glycerol (18:1/18:1) [1]*
 linoleoyl–docosahexaenoyl–glycerol (18:2/22:6) [2]*
 linoleoyl–linolenoyl–glycerol (18:2/18:3) [2]*
 linoleoyl–linoleoyl–glycerol (18:2/18:2) [1]*
 diacylglycerol (16:1/18:2 [2], 16:0/18:3 [1]) [1]*
 oleoyl–linoleoyl–glycerol (18:1/18:2) [2]
 oleoyl–linoleoyl–glycerol (18:1/18:2) [1]
 palmitoleoyl–linoleoyl–glycerol (16:1/18:2) [1]*

Significance
 Decreasing p>0.05 Decreasing p<0.05 Decreasing p<0.01
 Increasing p>0.05 Increasing p<0.05 Increasing p<0.01

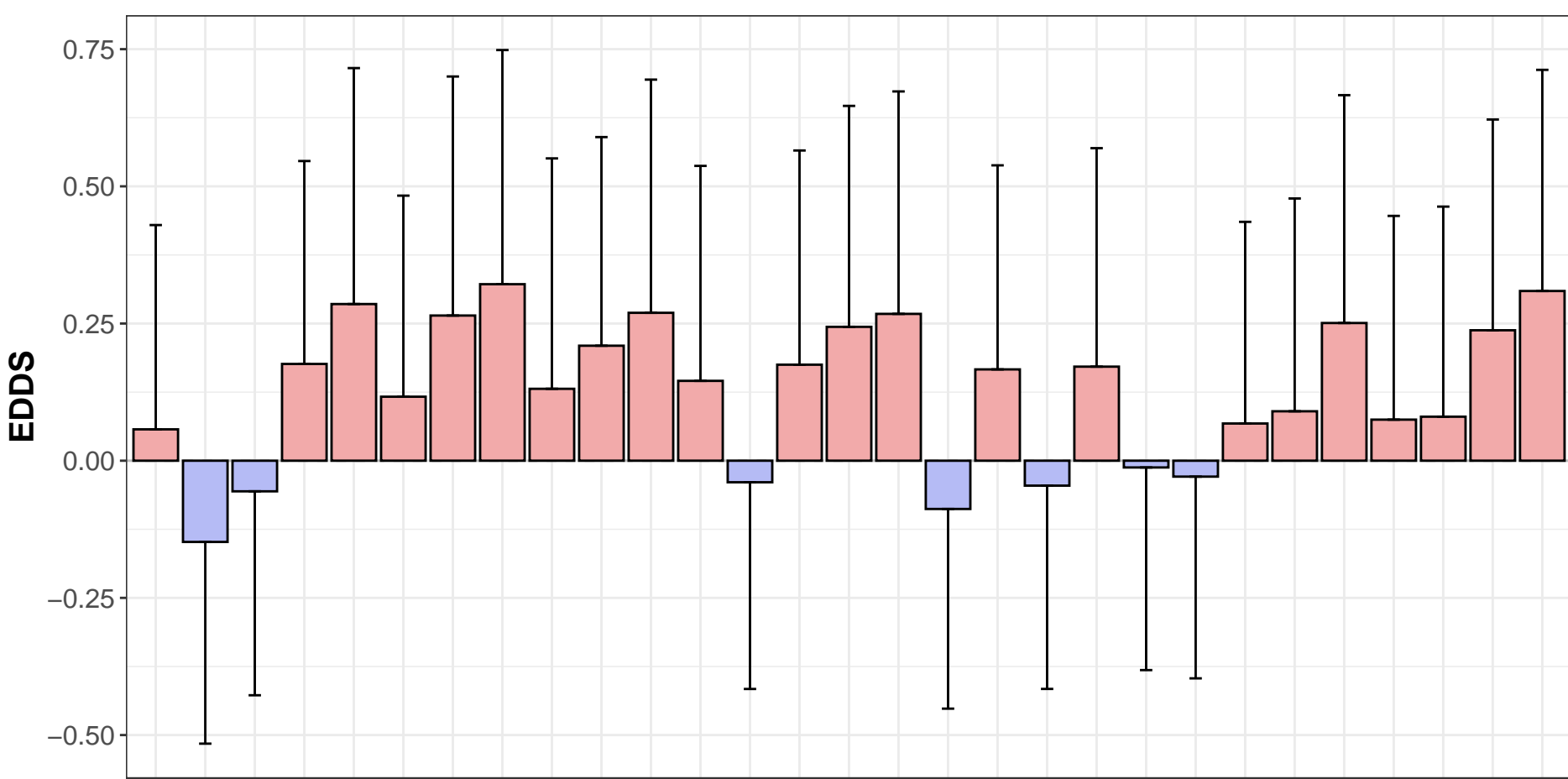
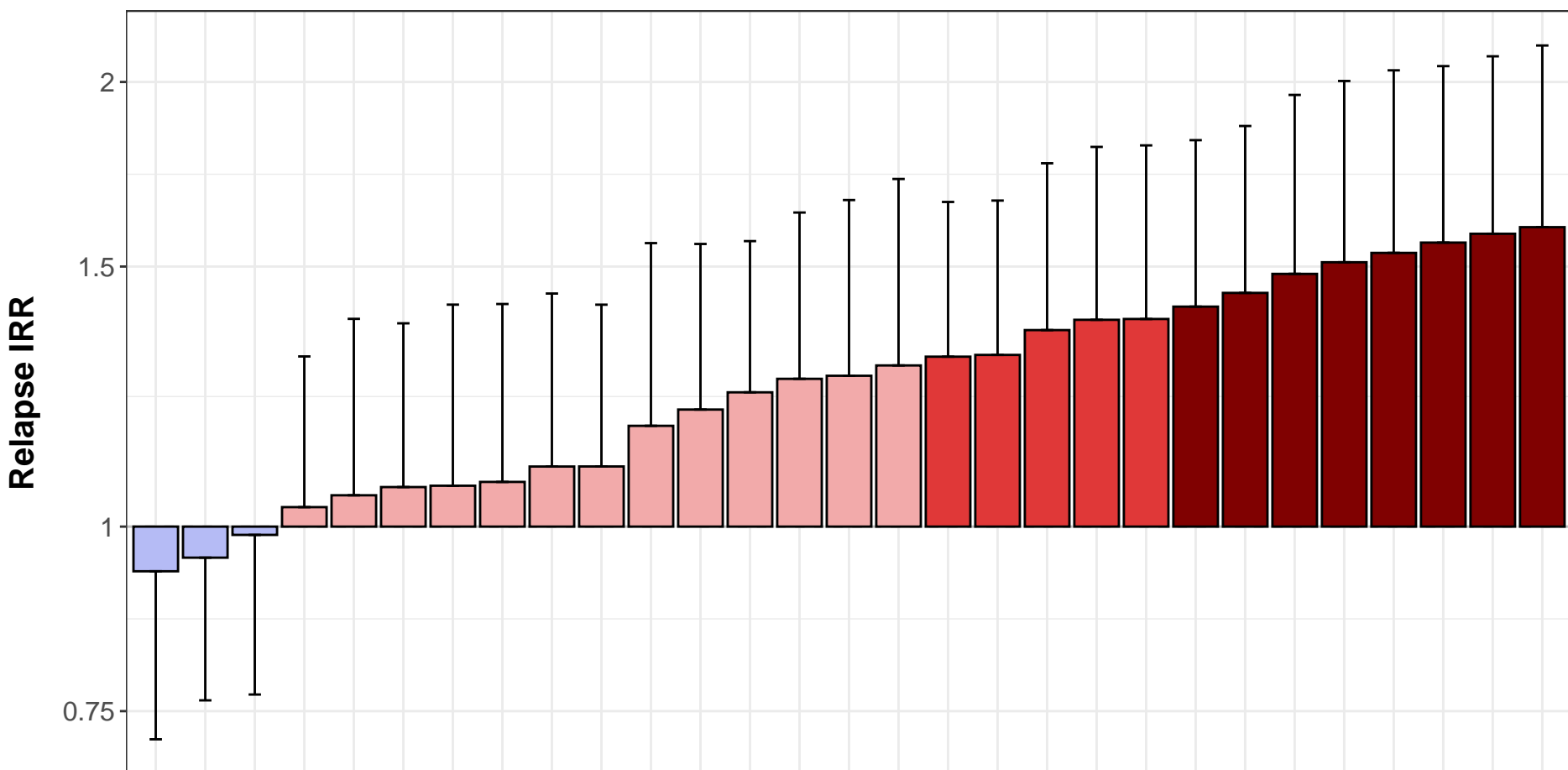
Endocannabinoid



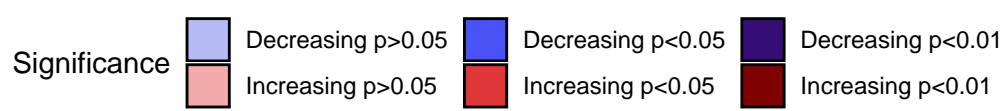
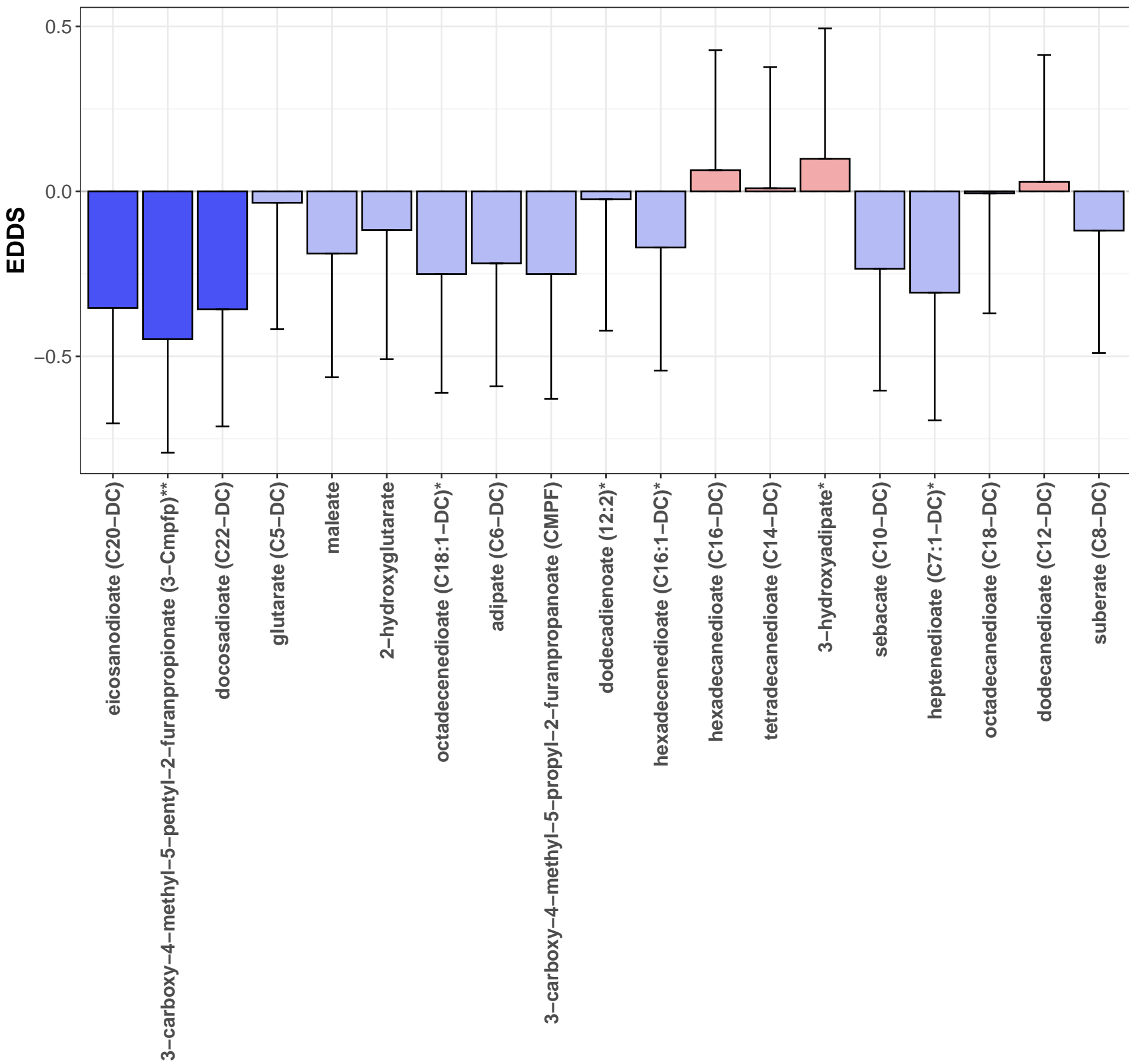
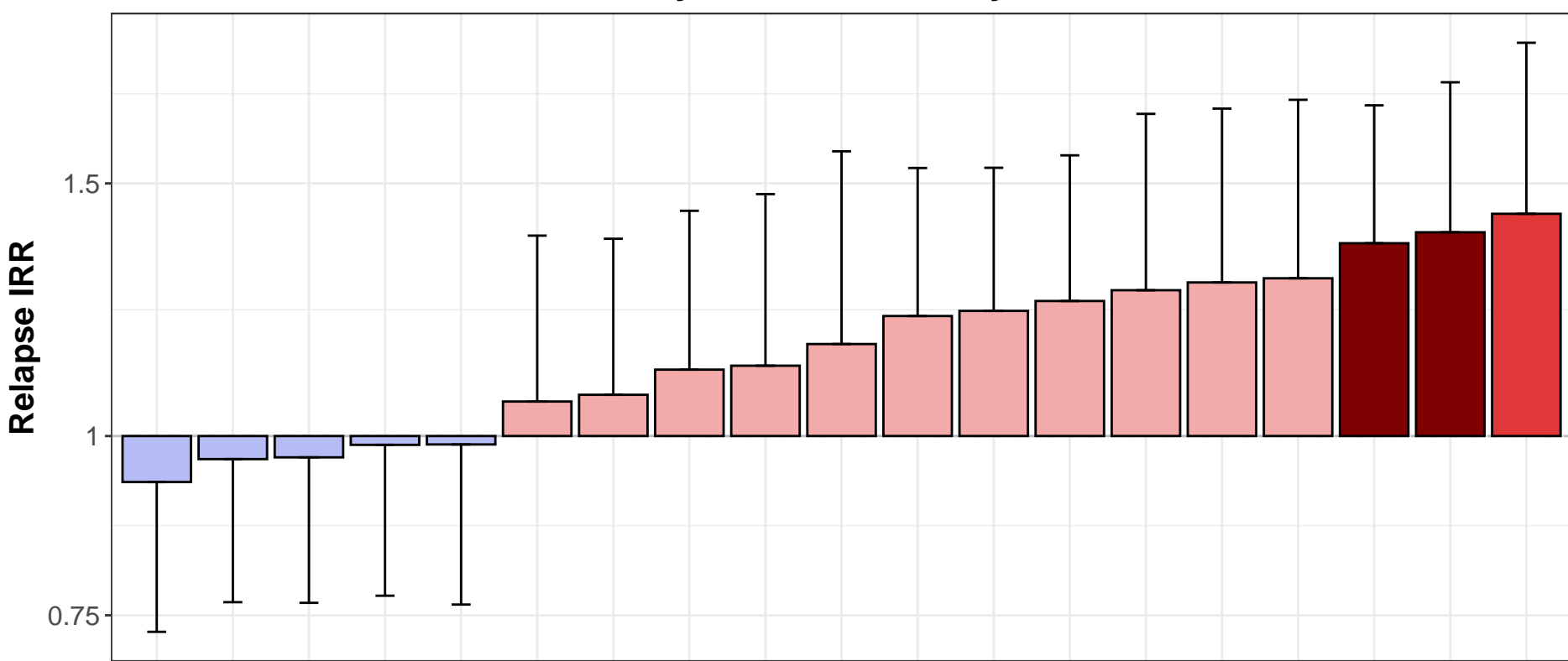
Fatty Acid Metabolism (Acyl Choline)



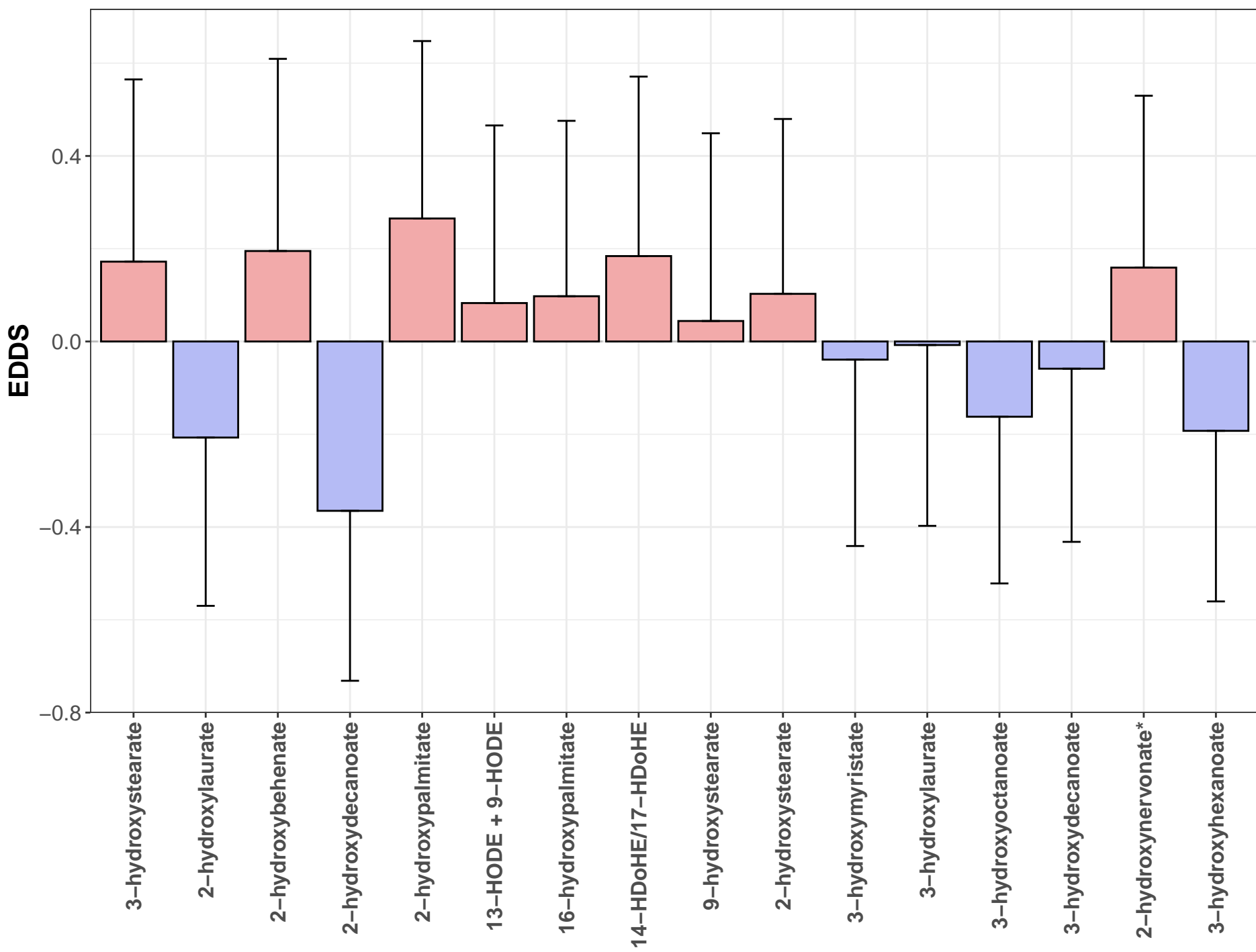
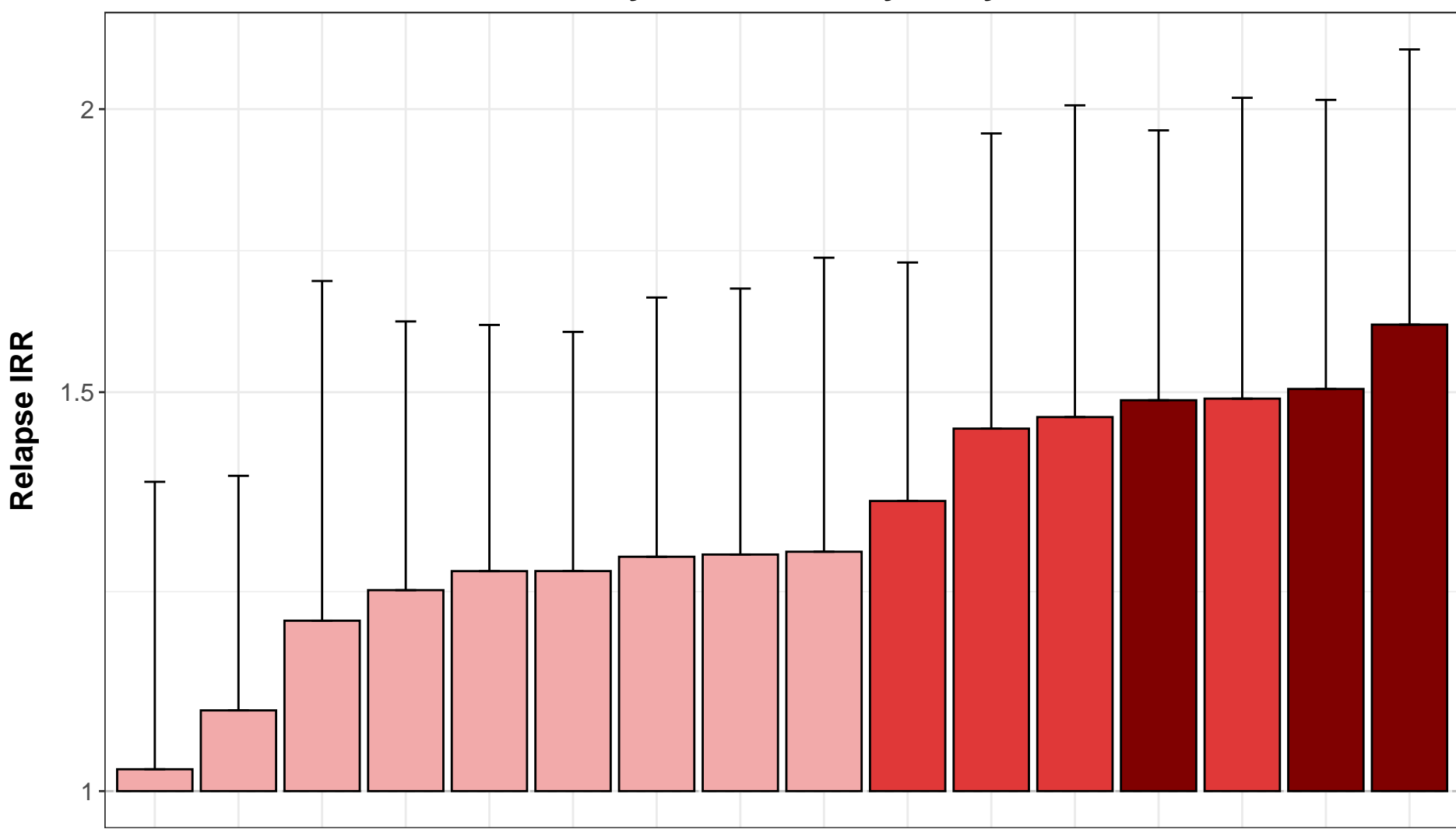
Fatty Acid Metabolism(Acyl Carnitine)



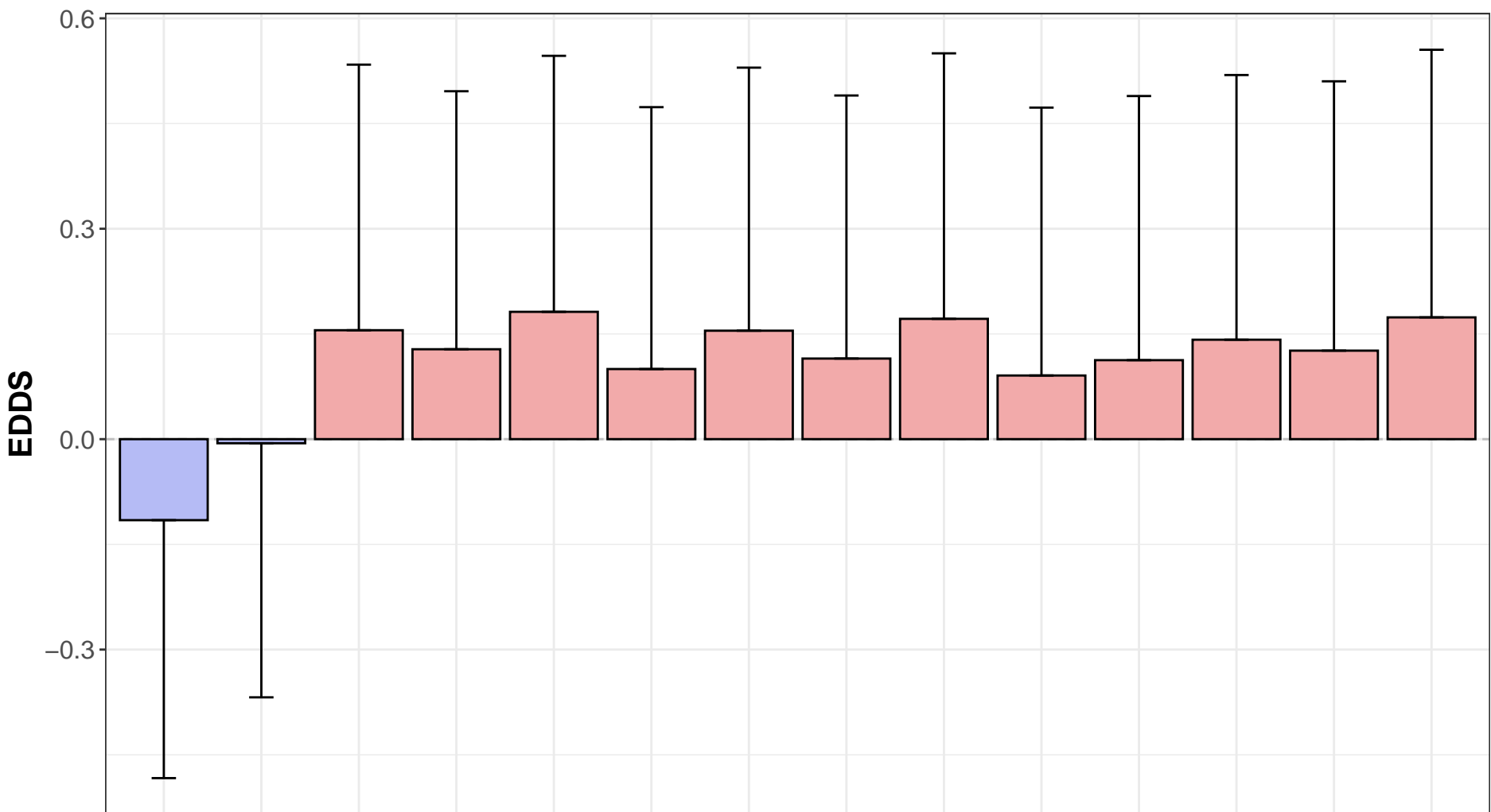
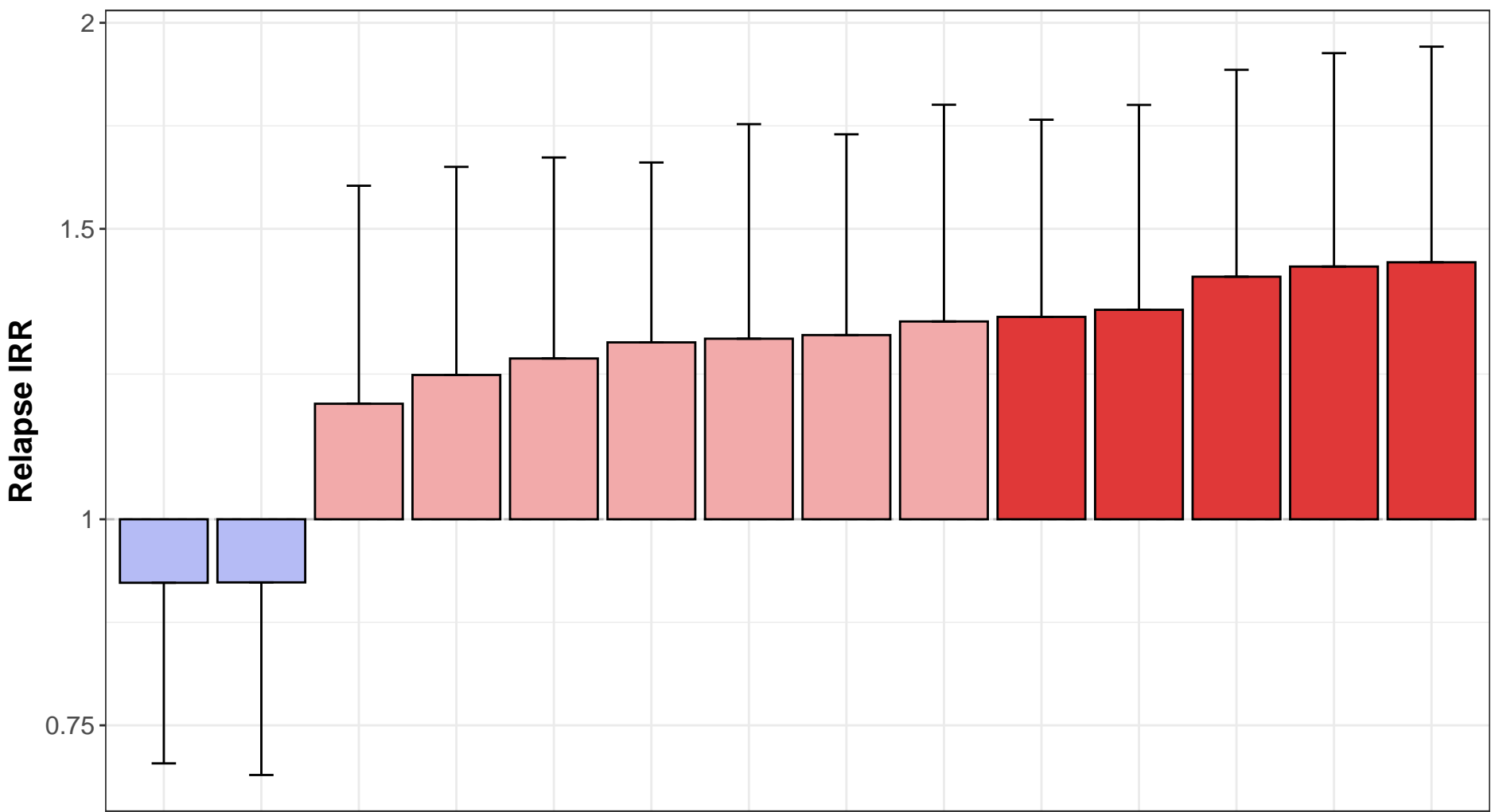
Fatty Acid, Dicarboxylate



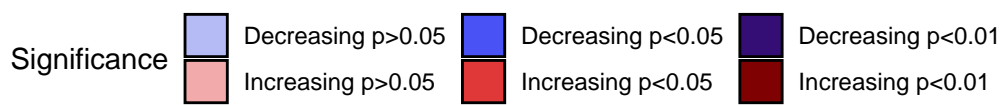
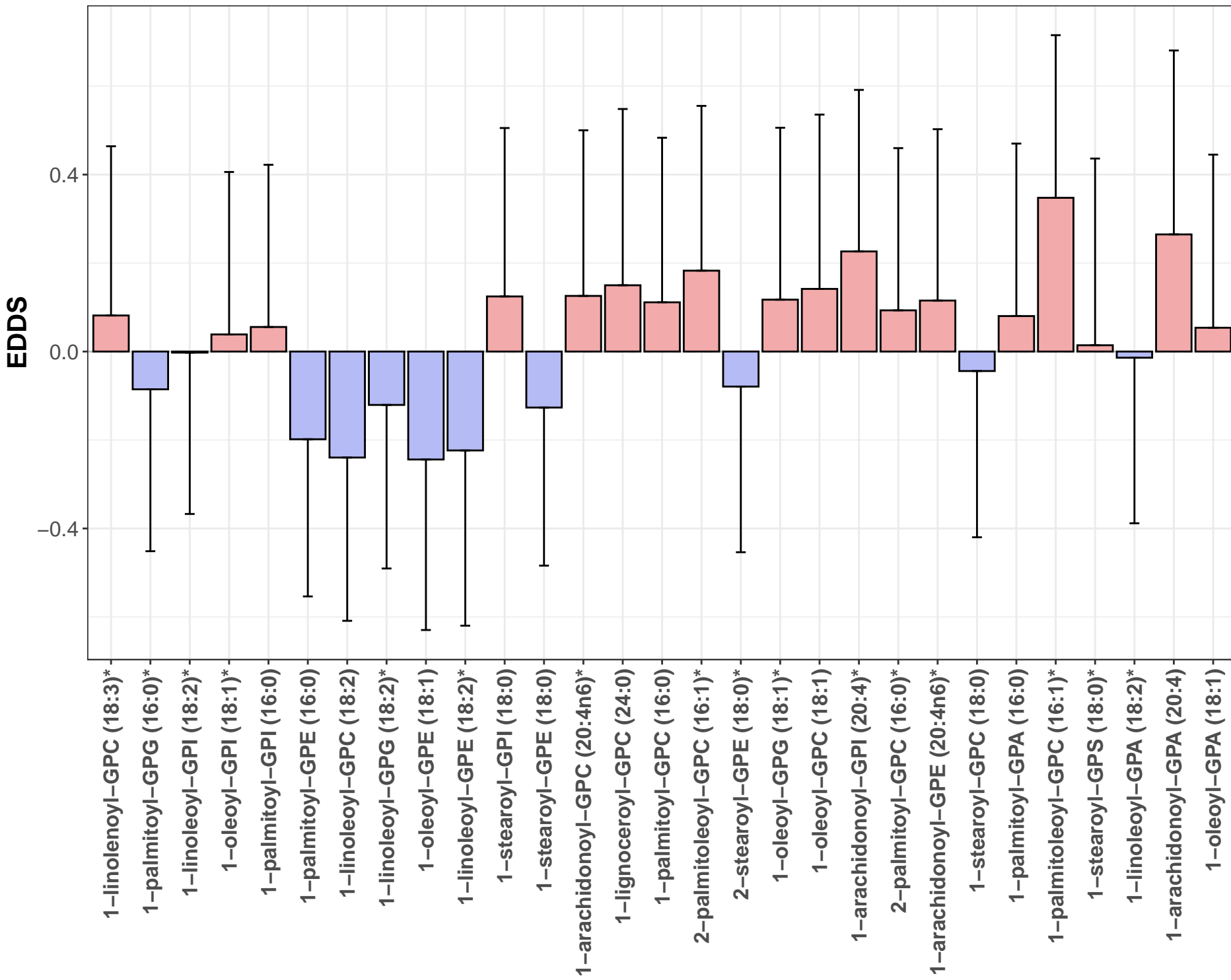
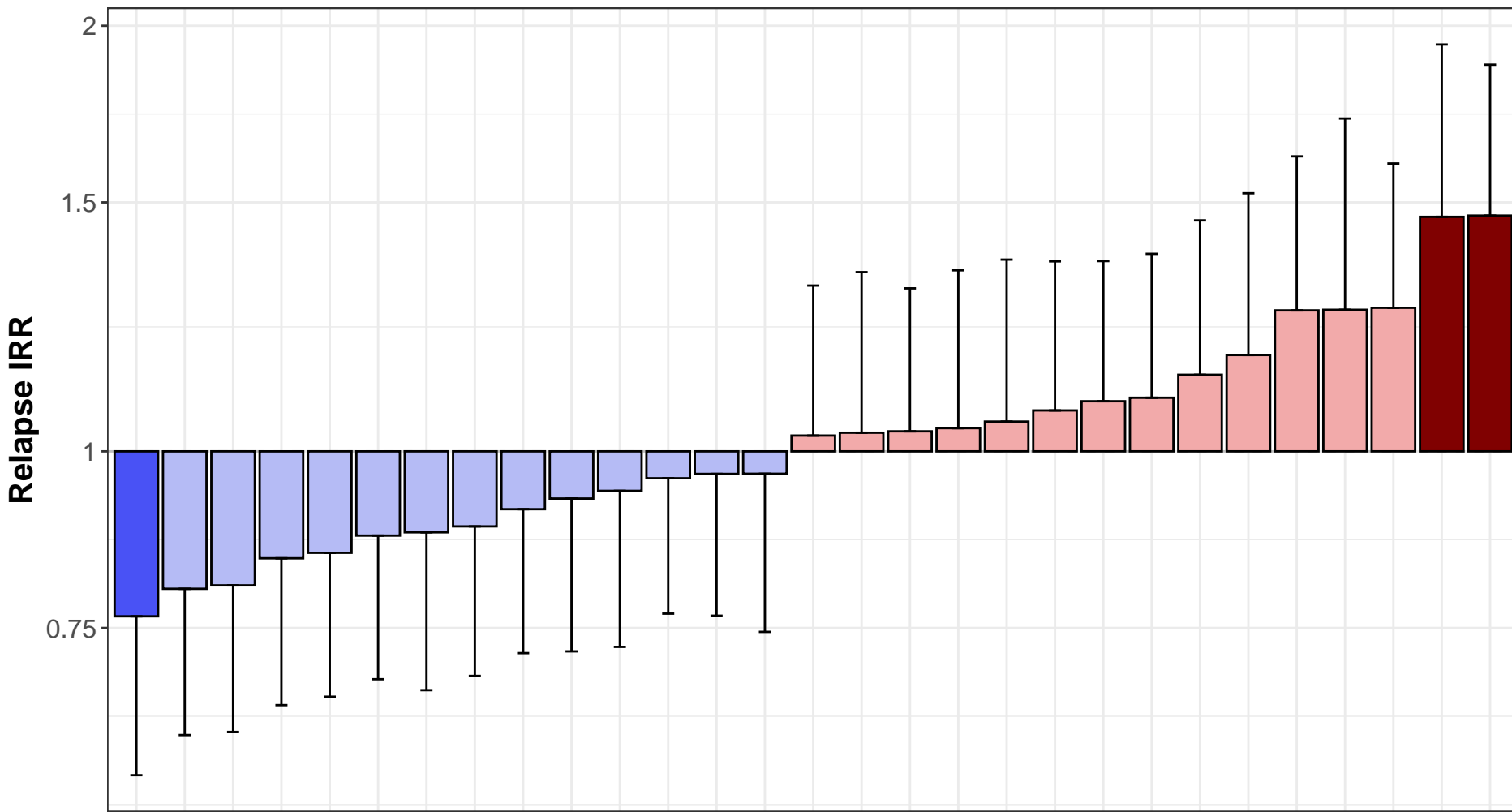
Fatty Acid, Monohydroxy



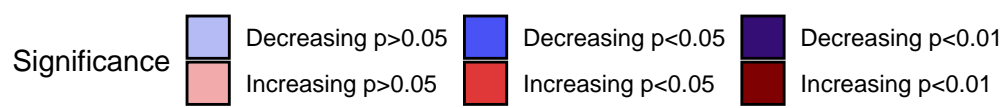
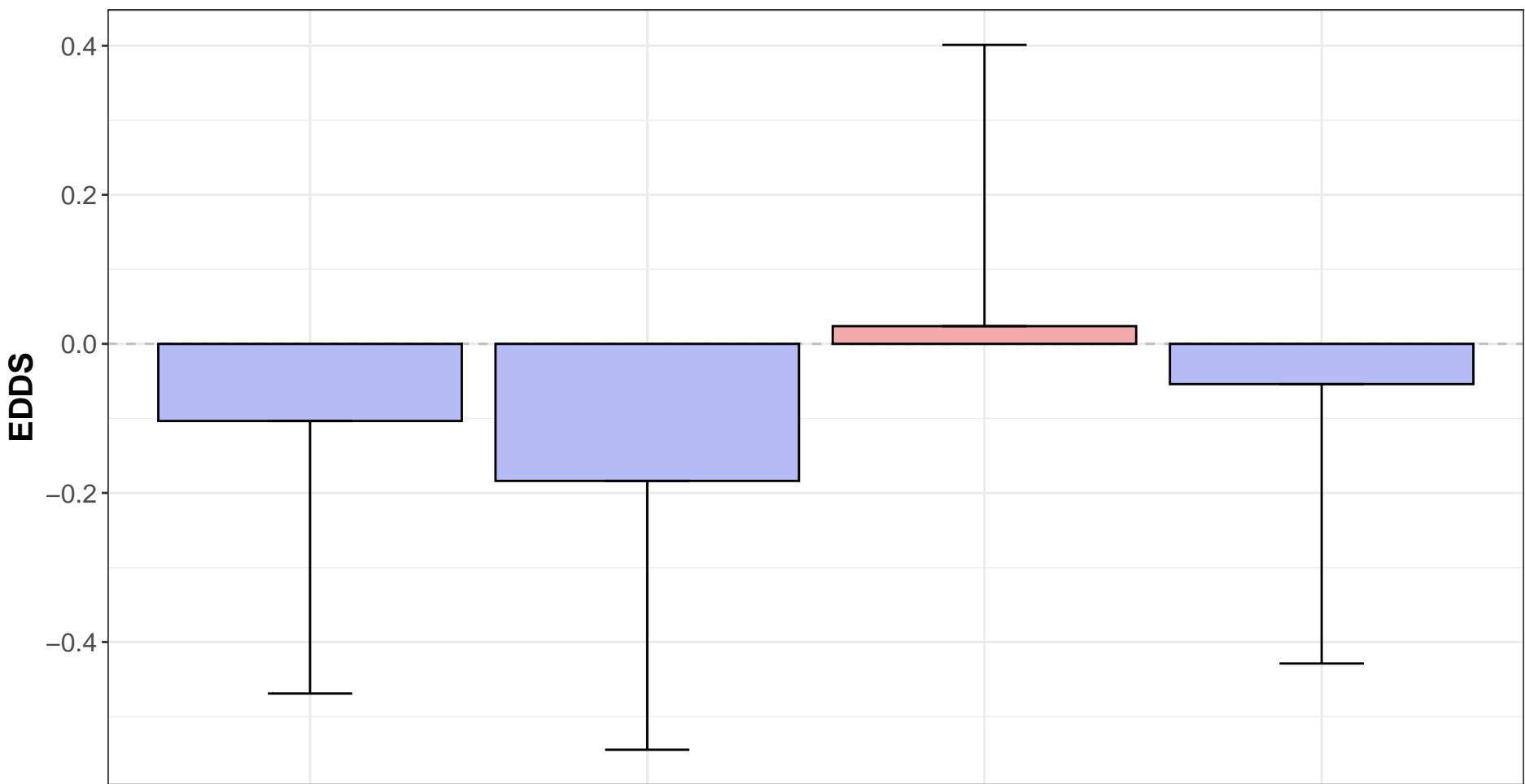
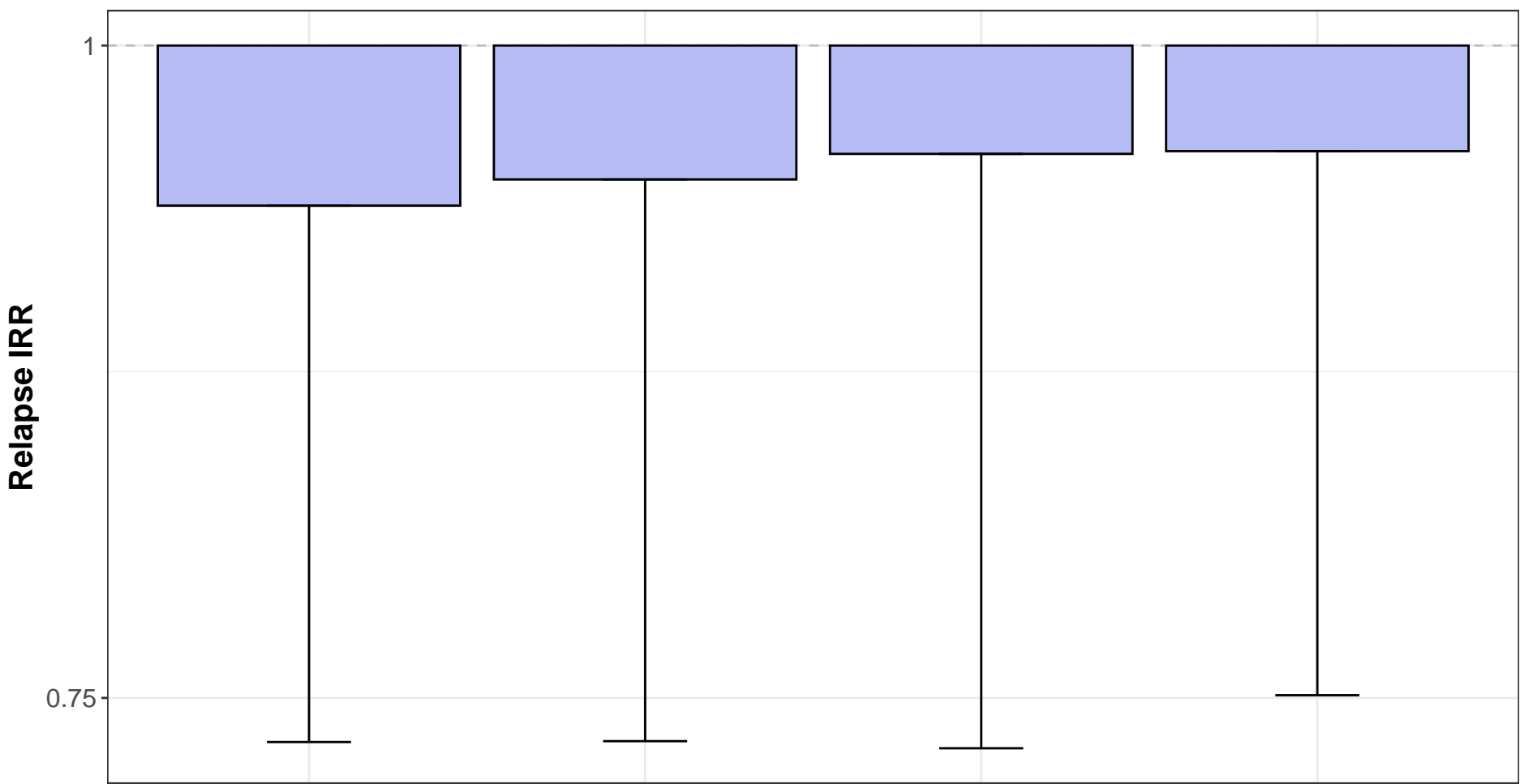
Long Chain Fatty Acid



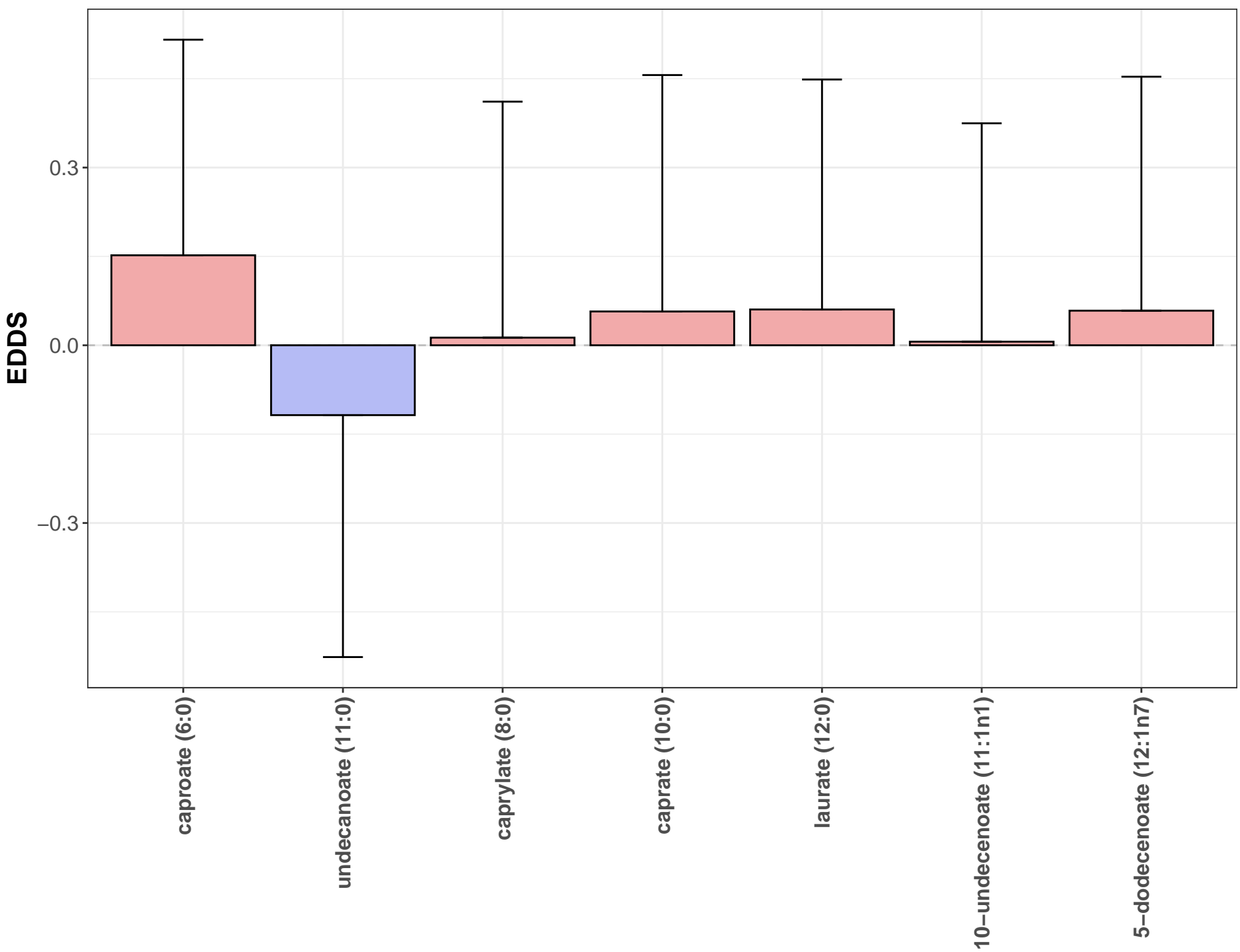
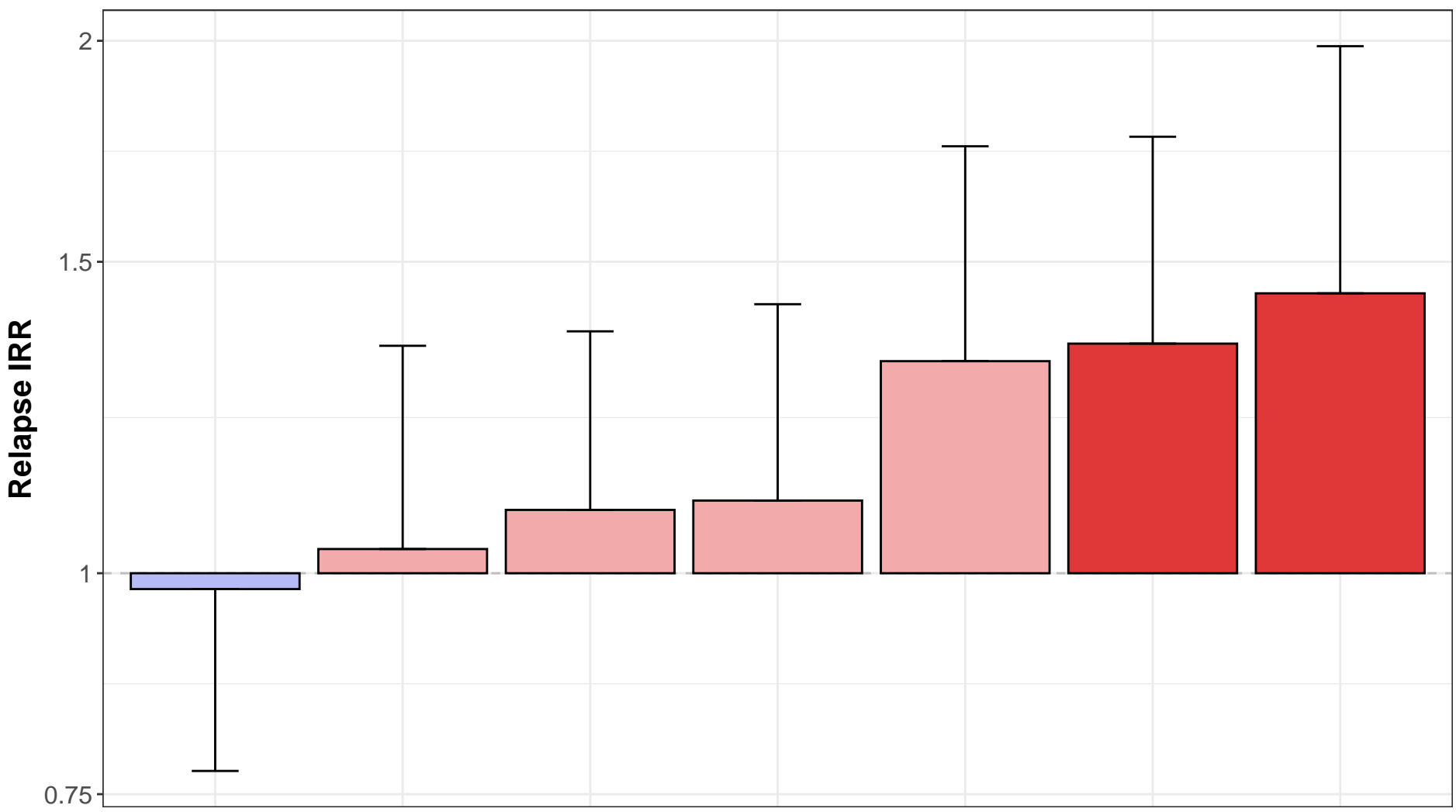
Lysophospholipid



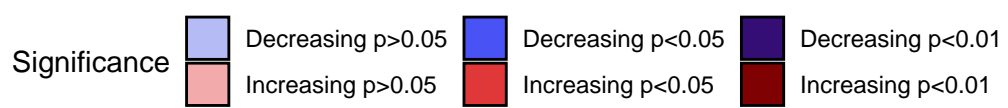
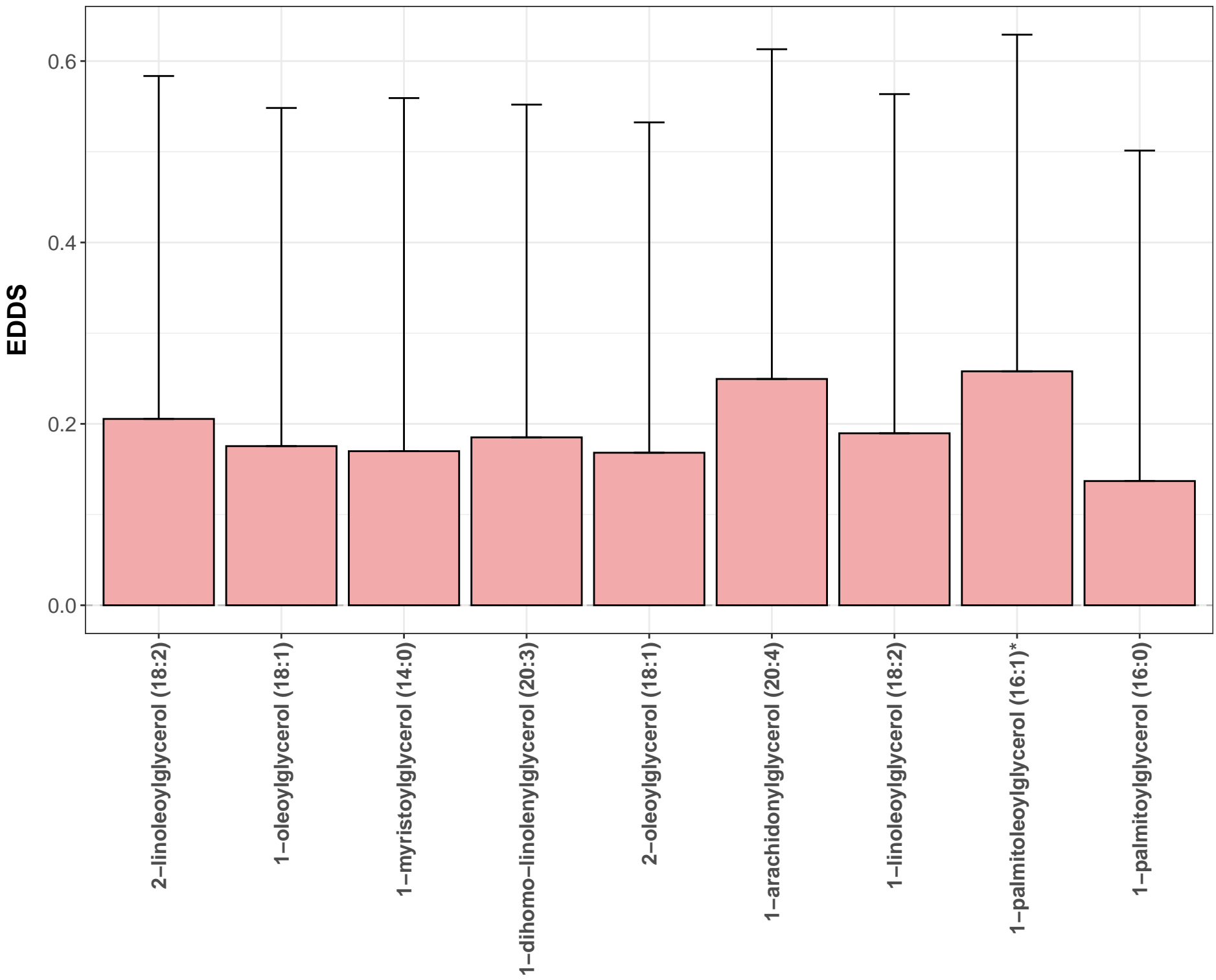
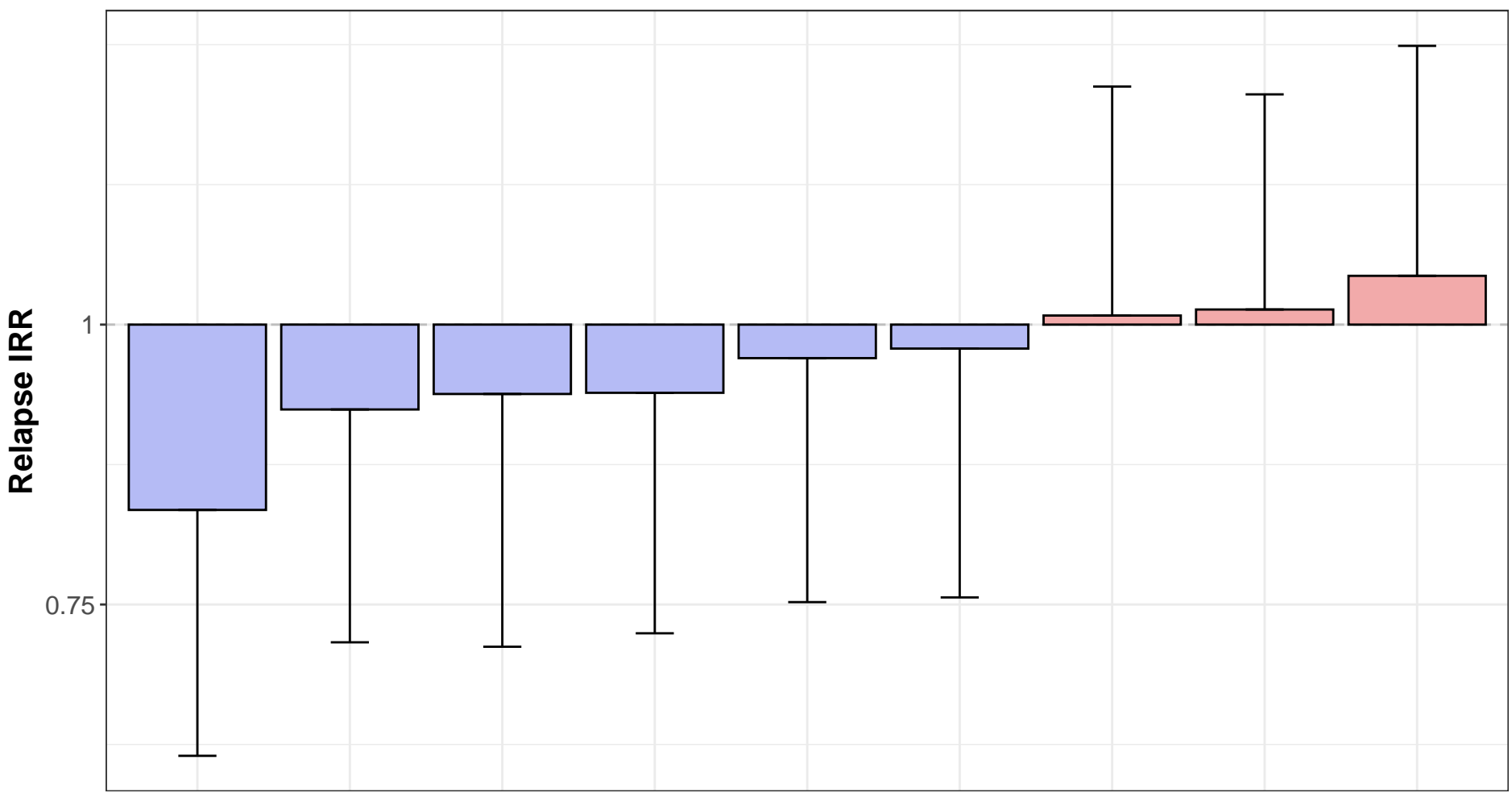
Lysoplasmalogen



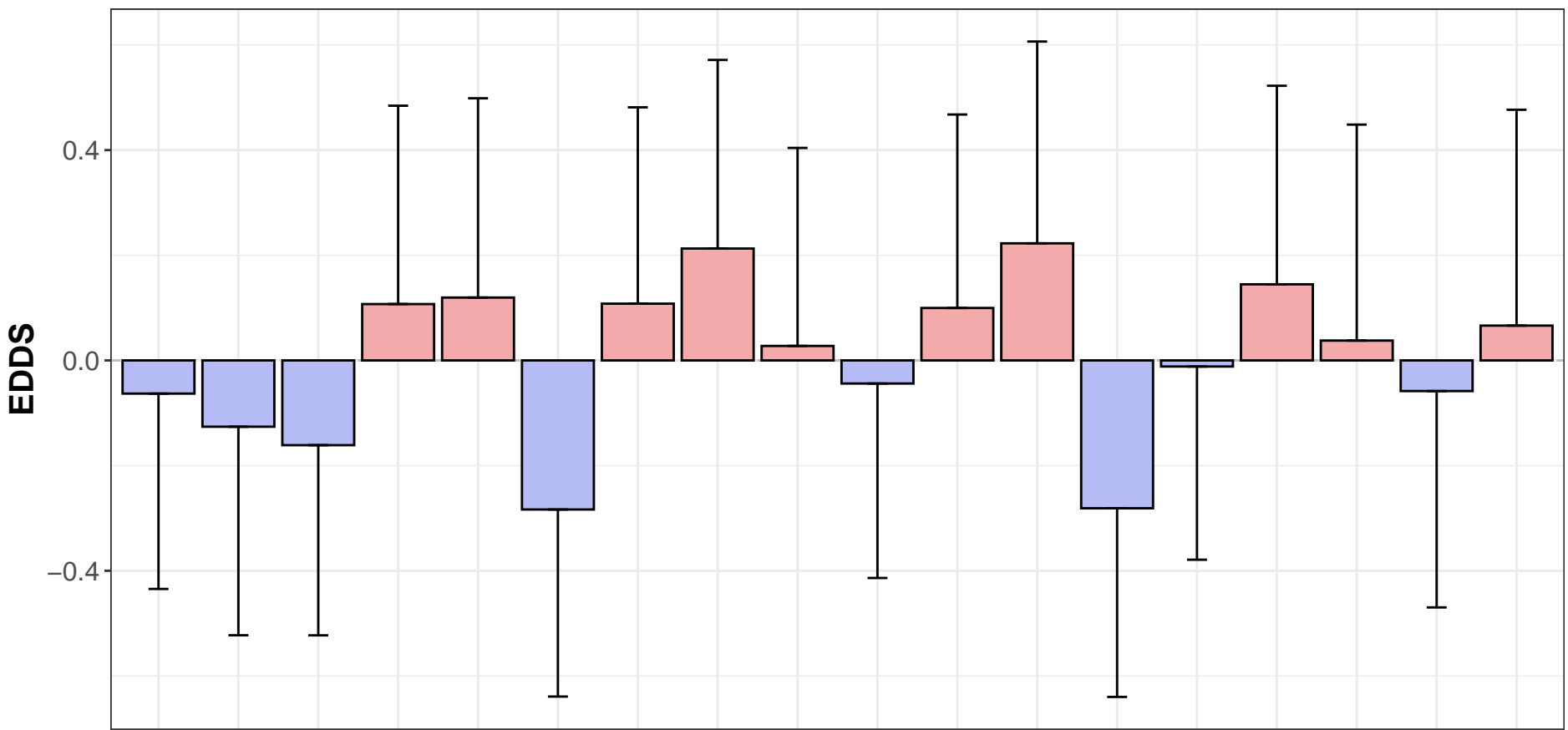
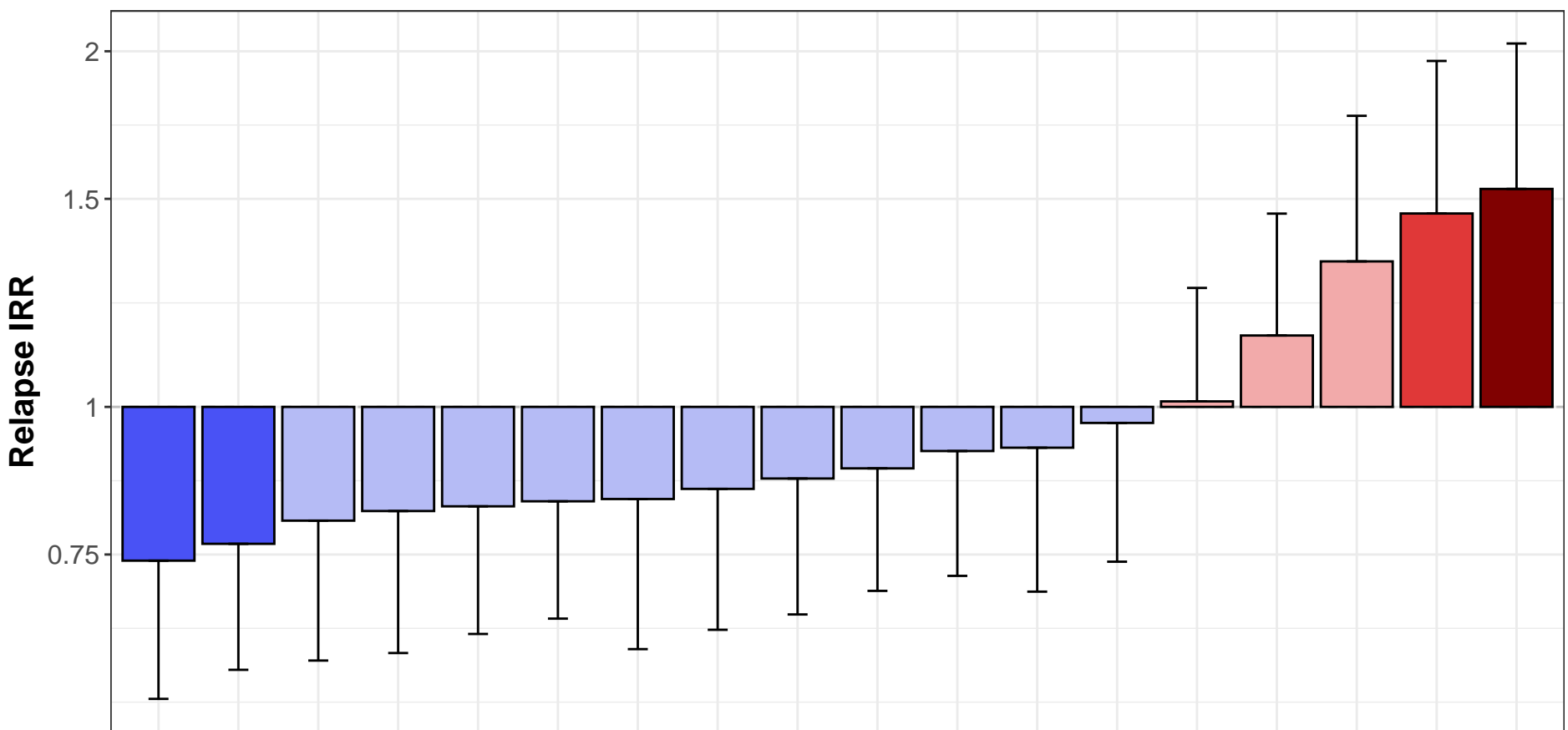
Medium Chain Fatty Acid



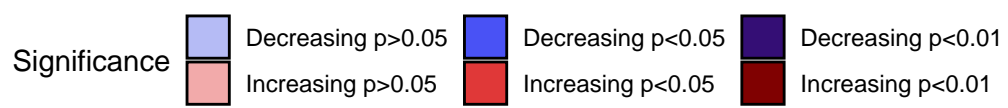
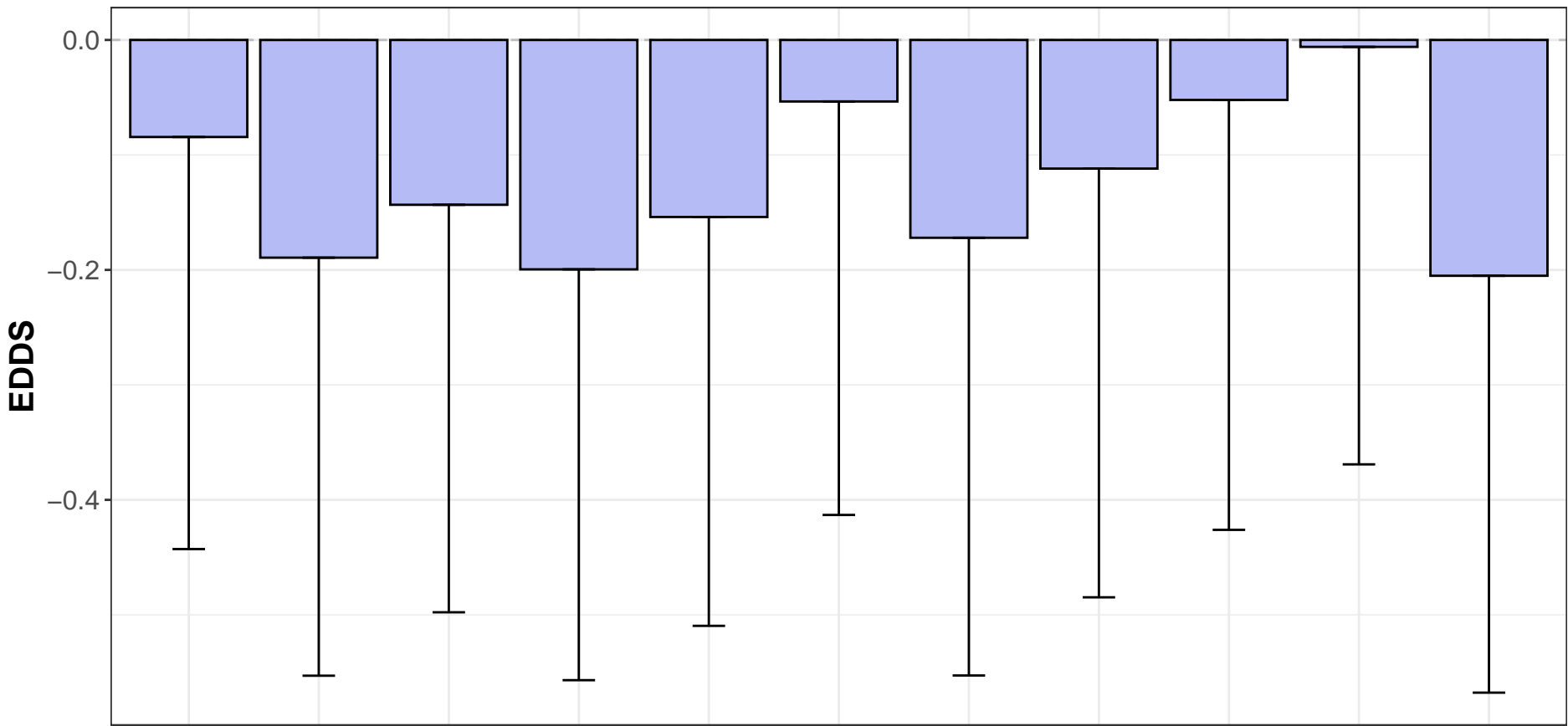
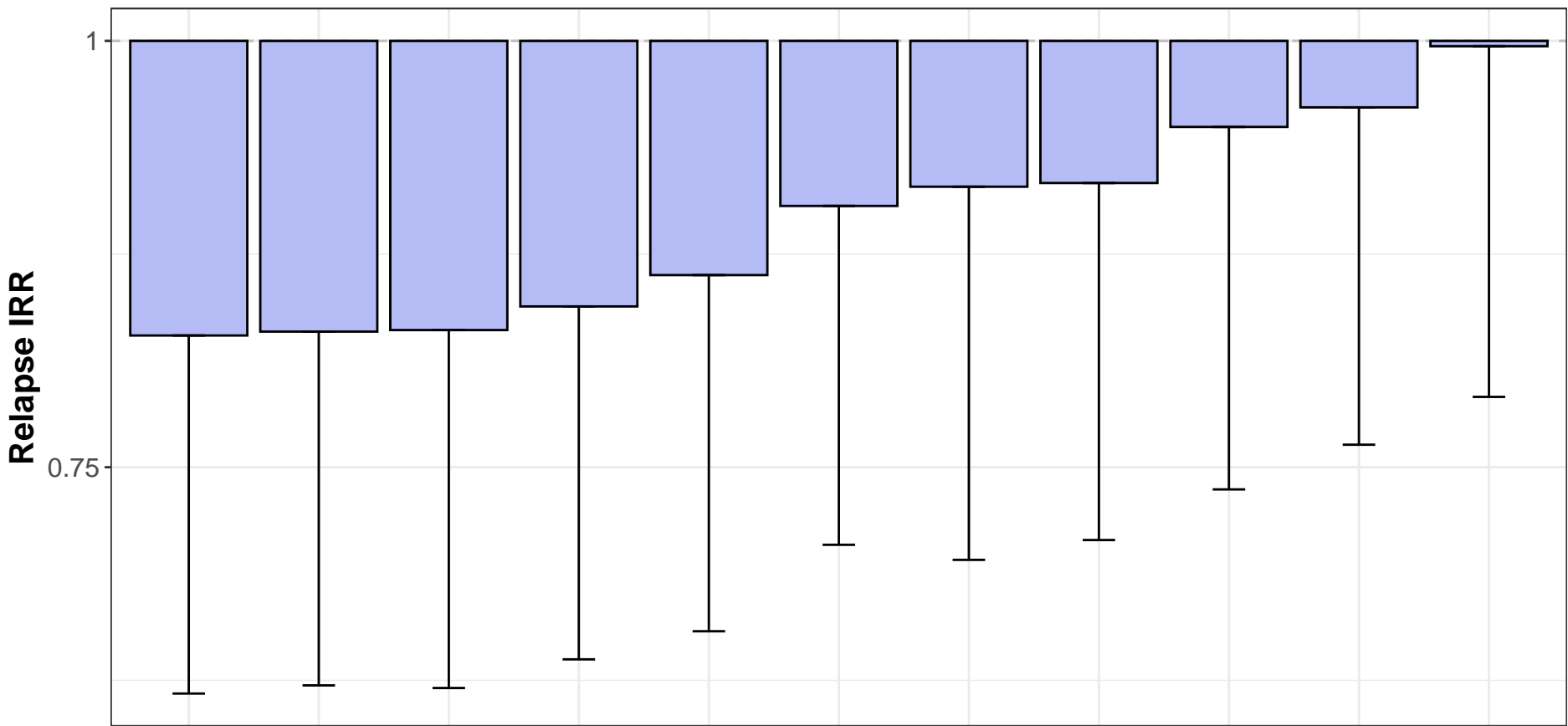
Monoacylglycerol



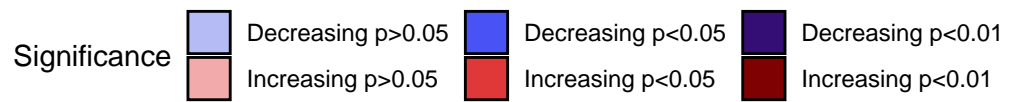
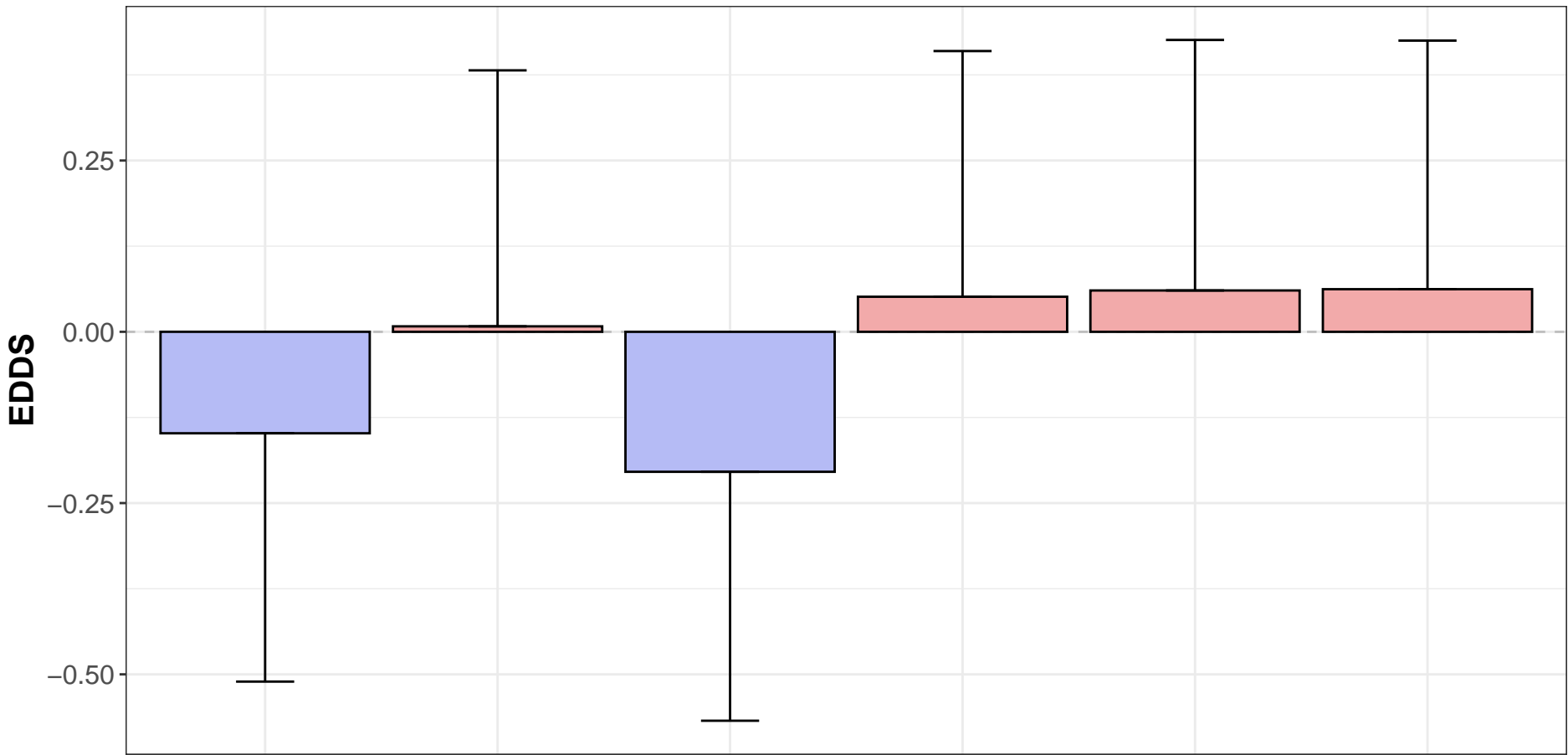
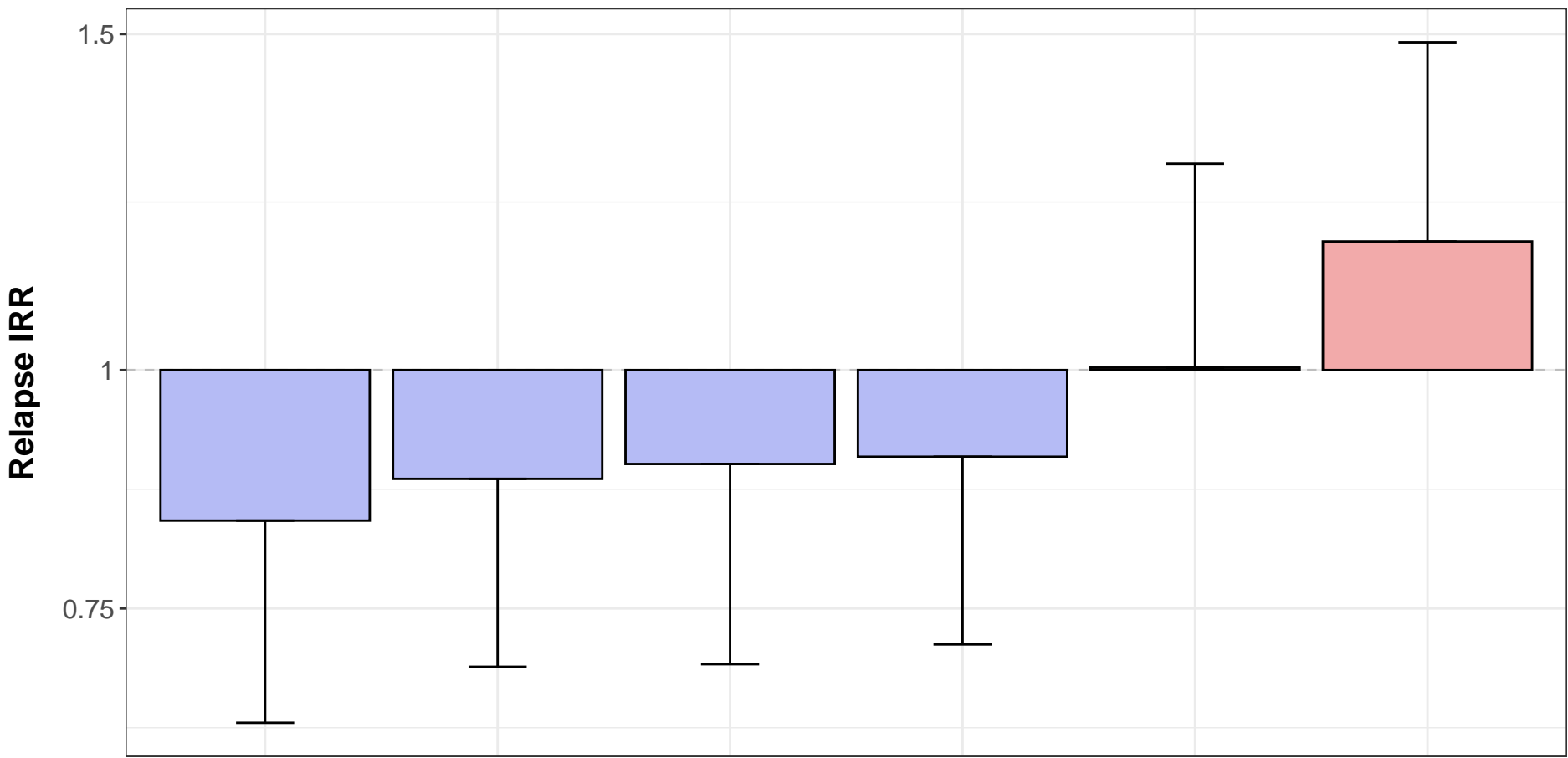
Phosphatidylcholine (PC)



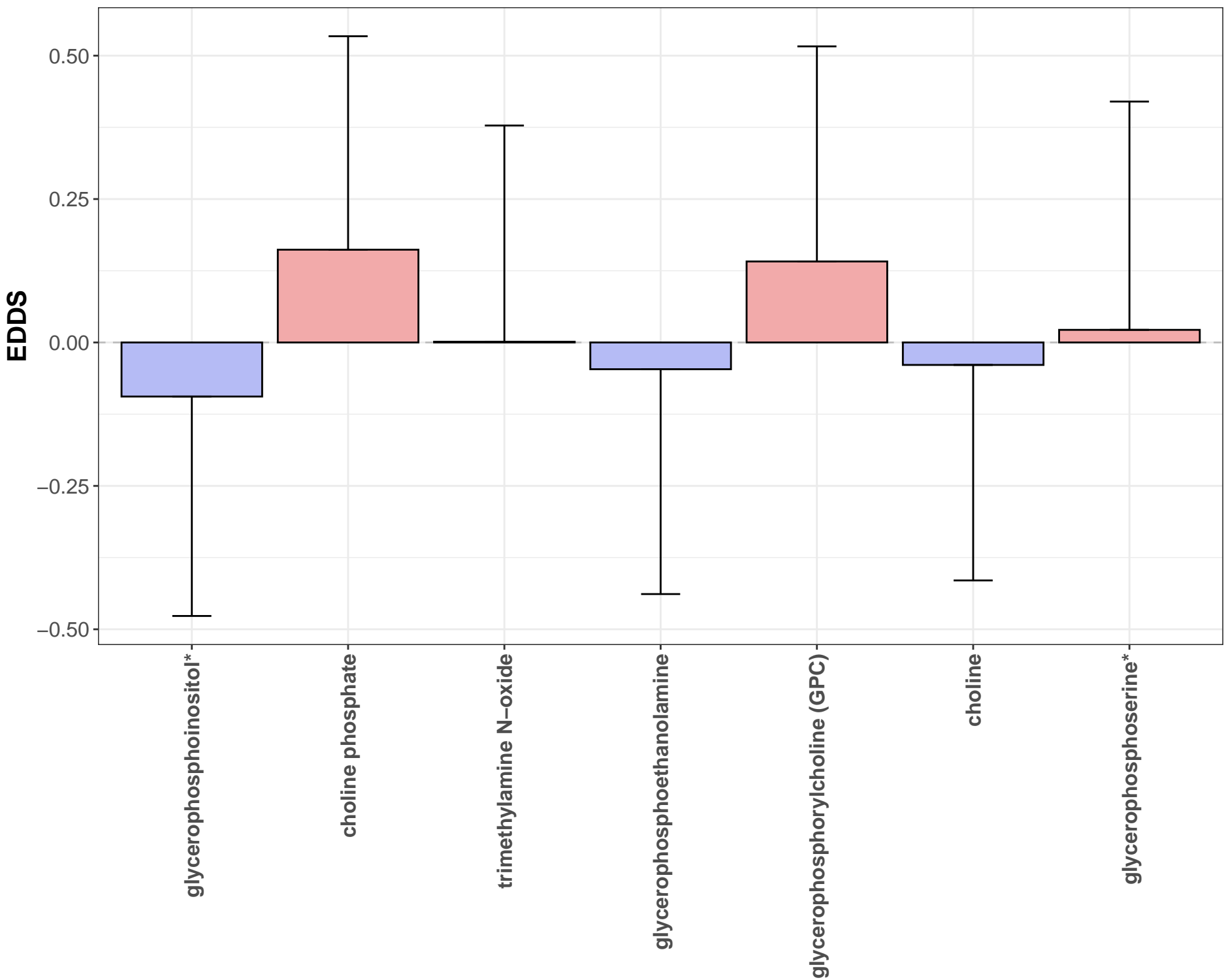
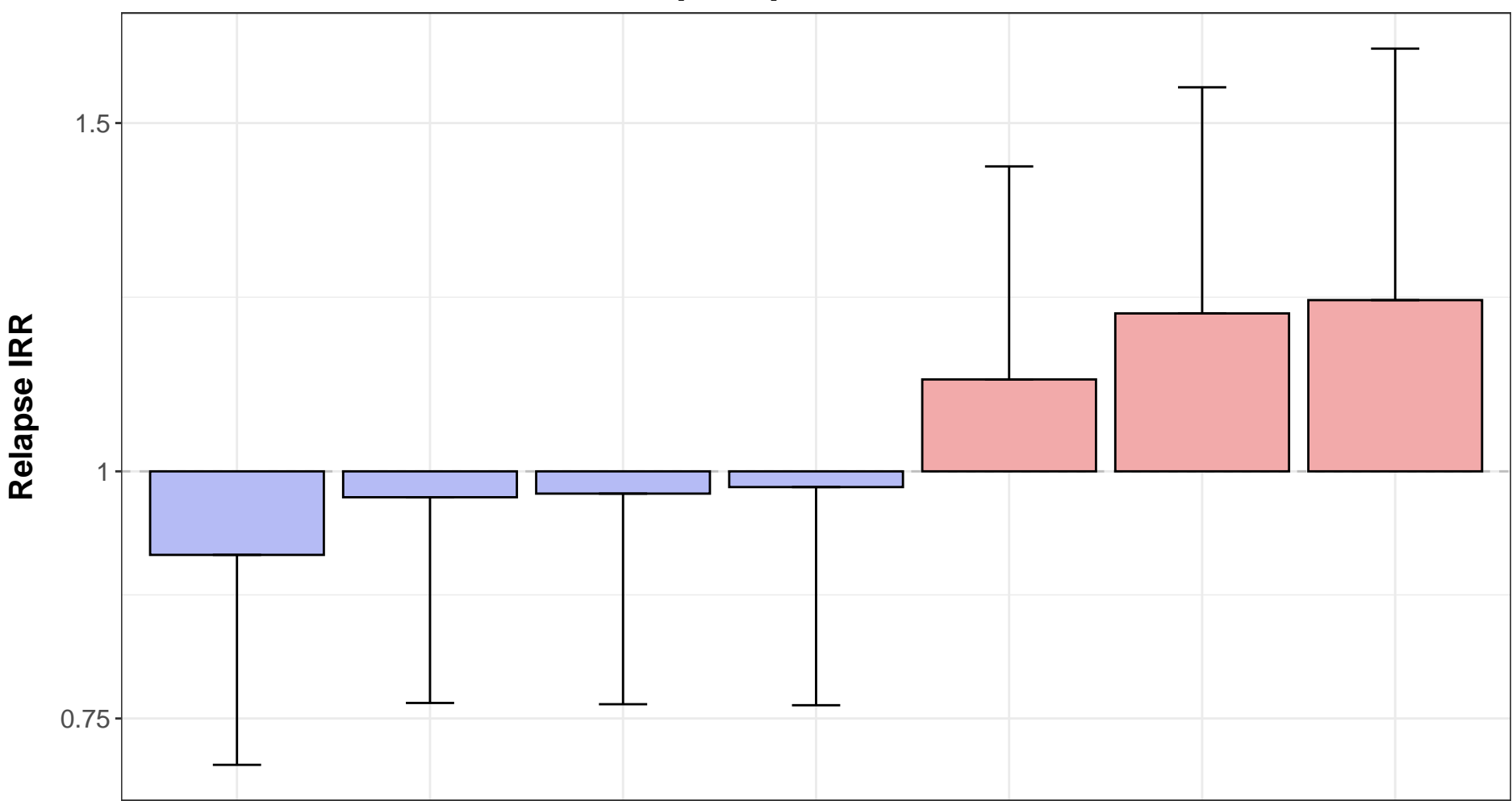
Phosphatidylethanolamine (PE)



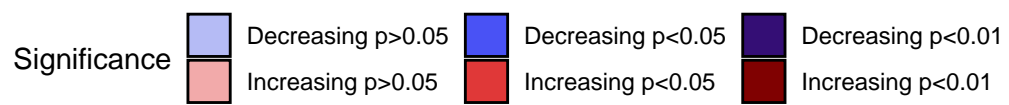
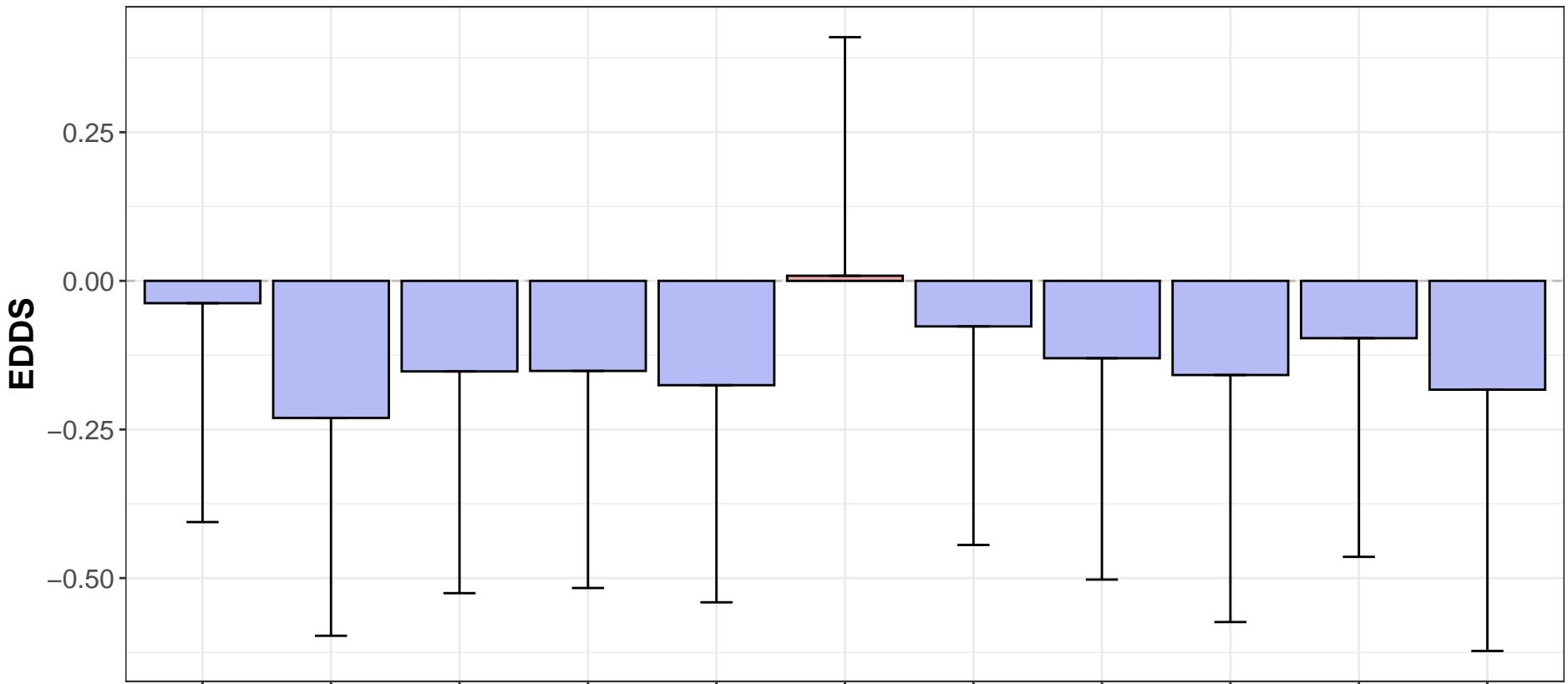
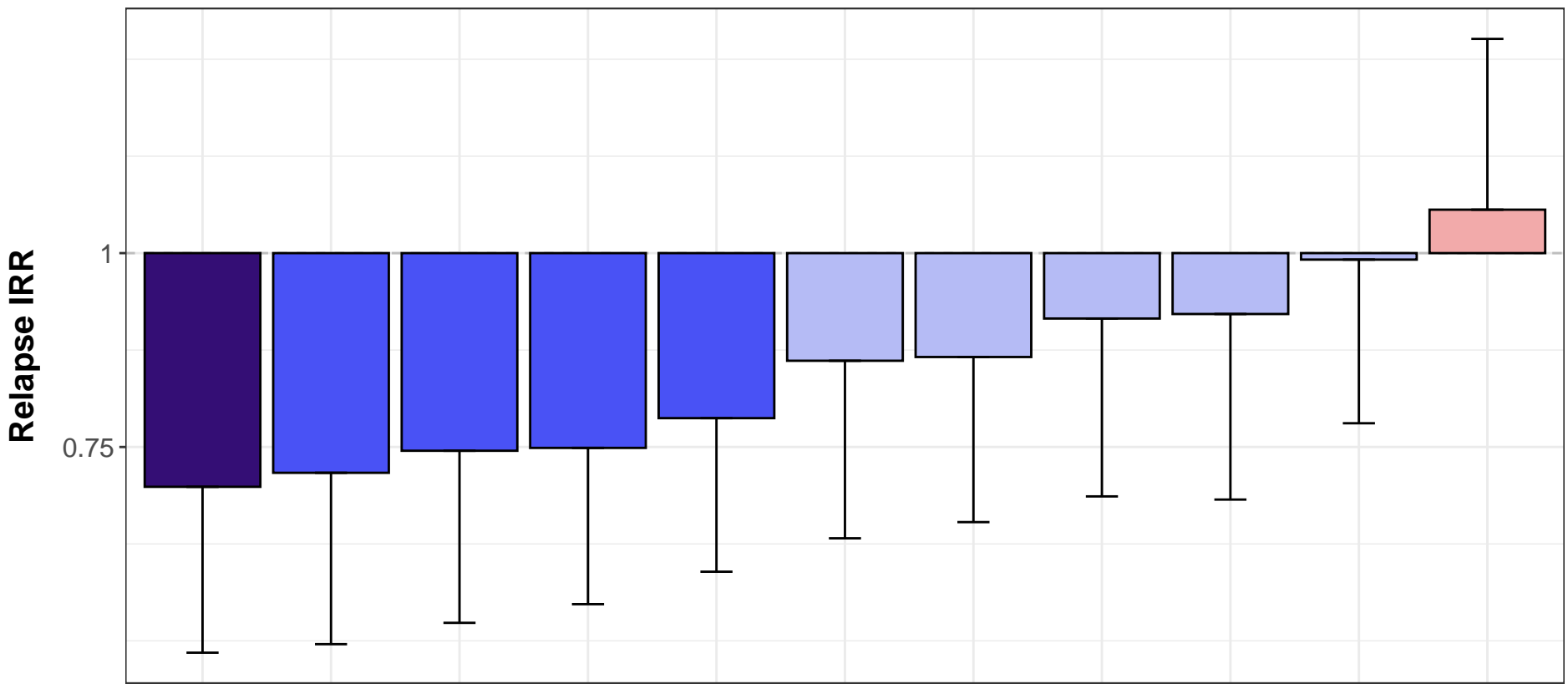
Phosphatidylinositol (PI)



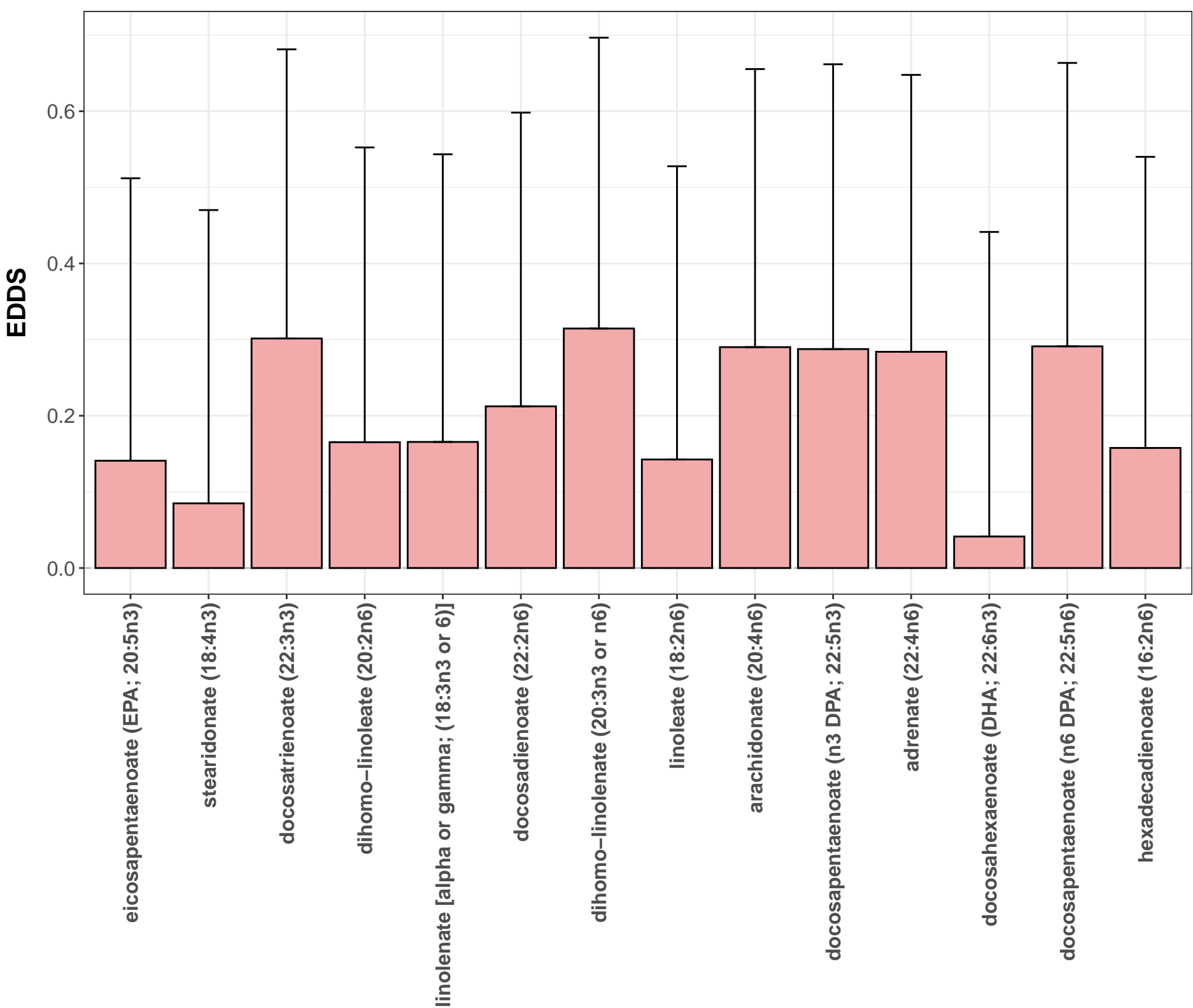
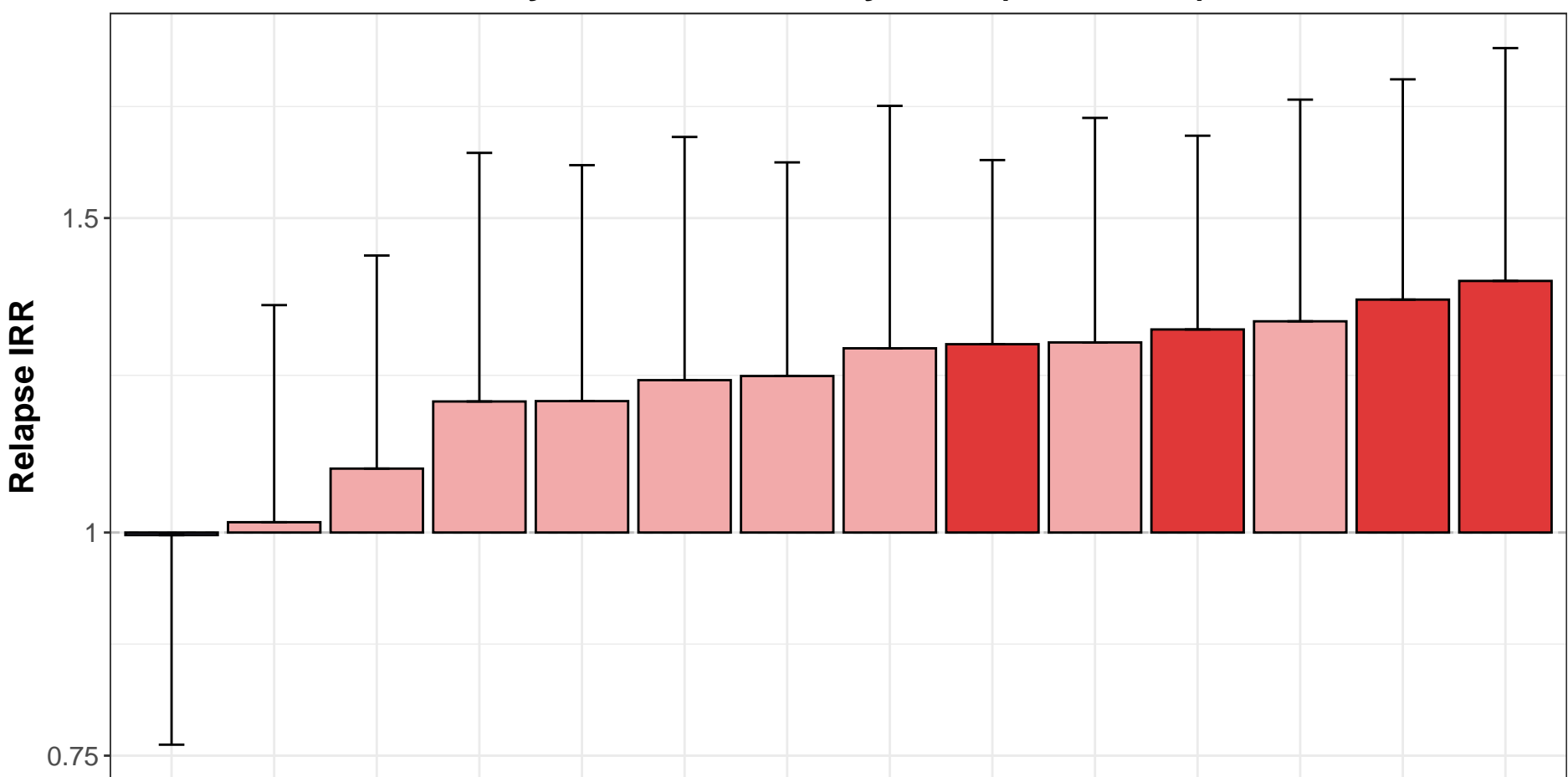
Phospholipid Metabolism



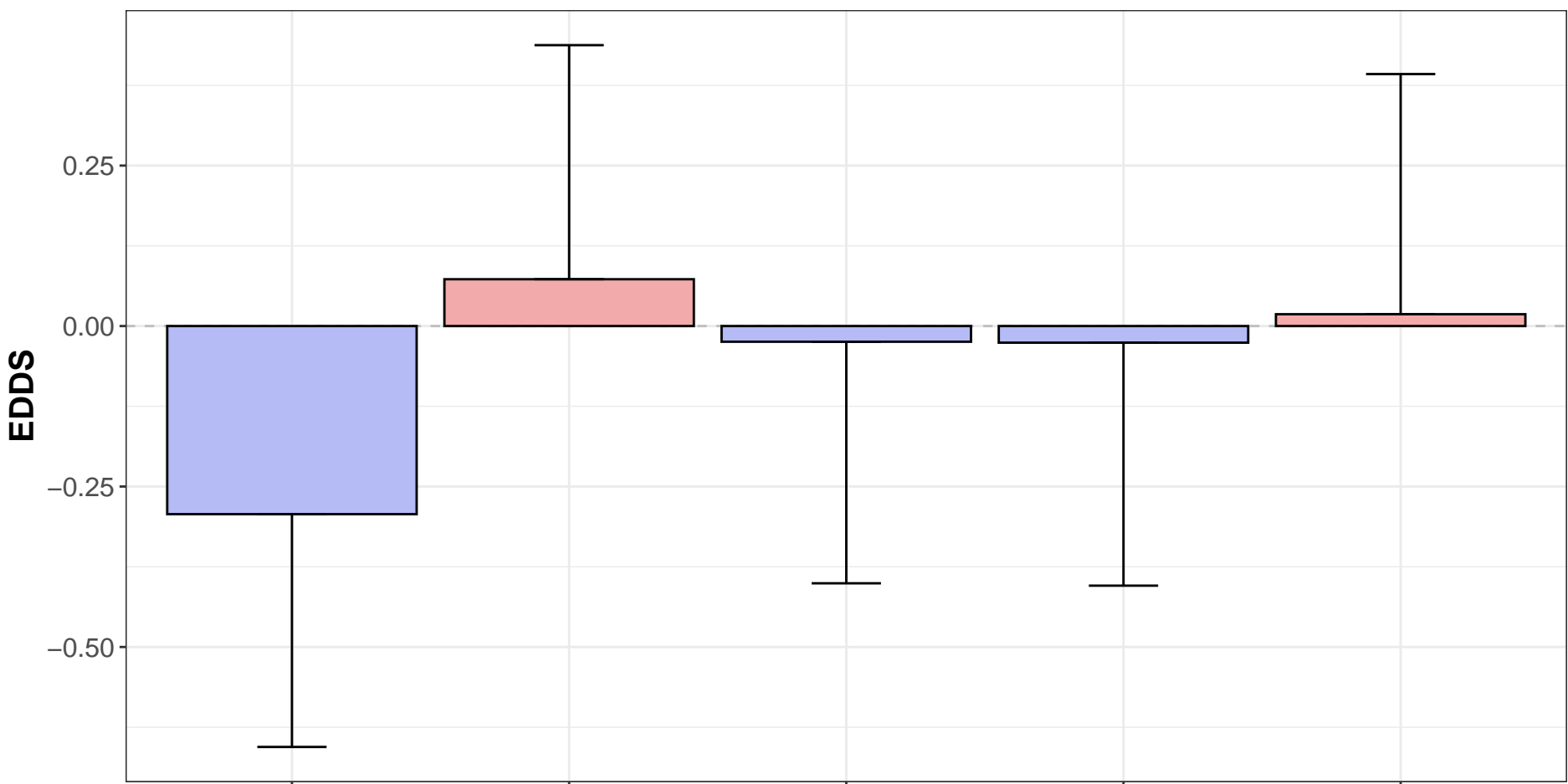
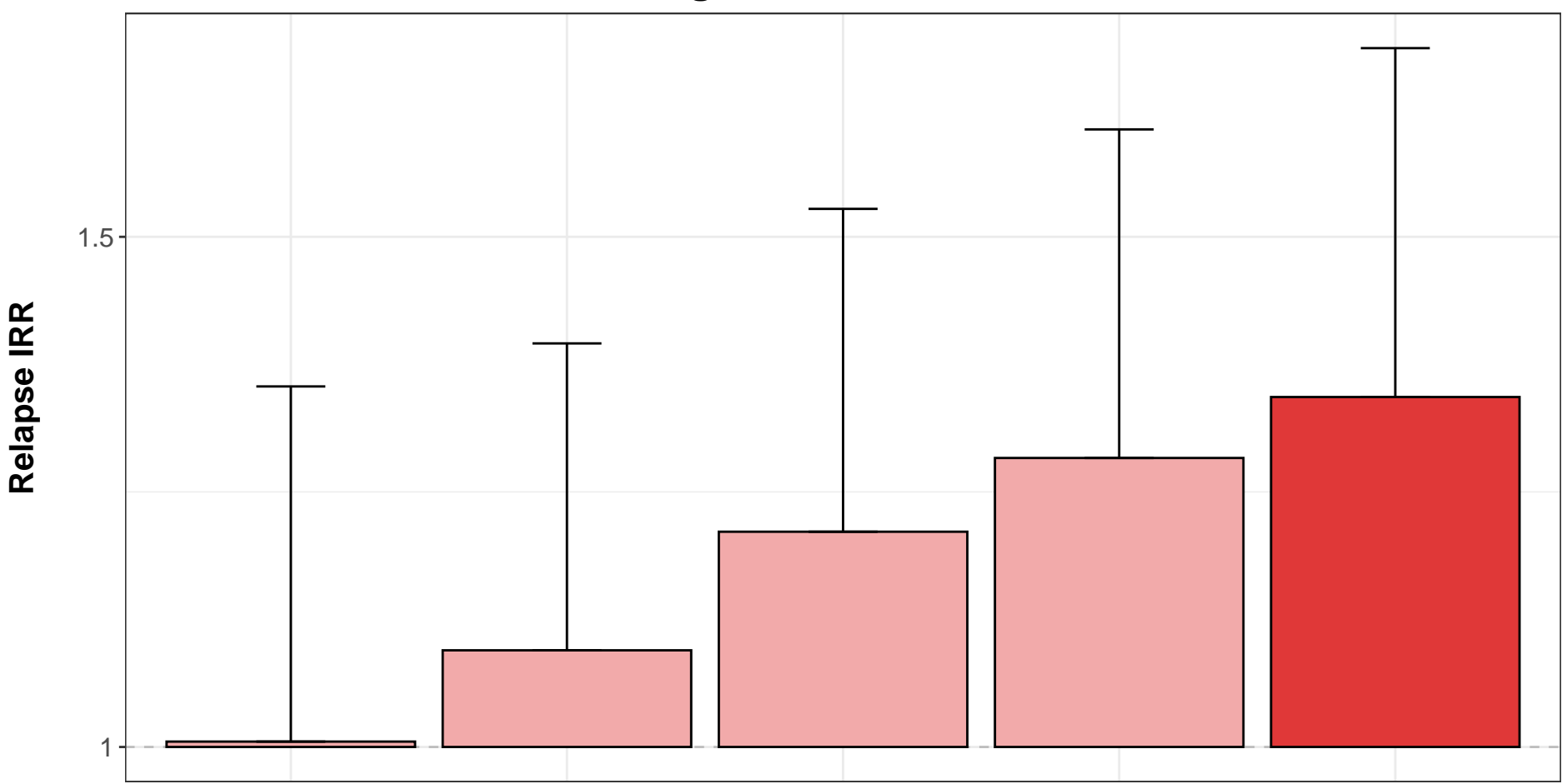
Plasmalogen



Polyunsaturated Fatty Acid (n3 and n6)



Pregnenolone Steroids



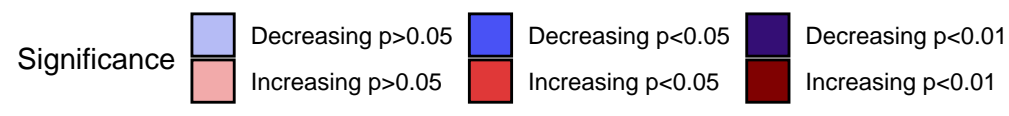
17alpha-hydroxypregnenolone 3-sulfate

pregnenolone sulfate

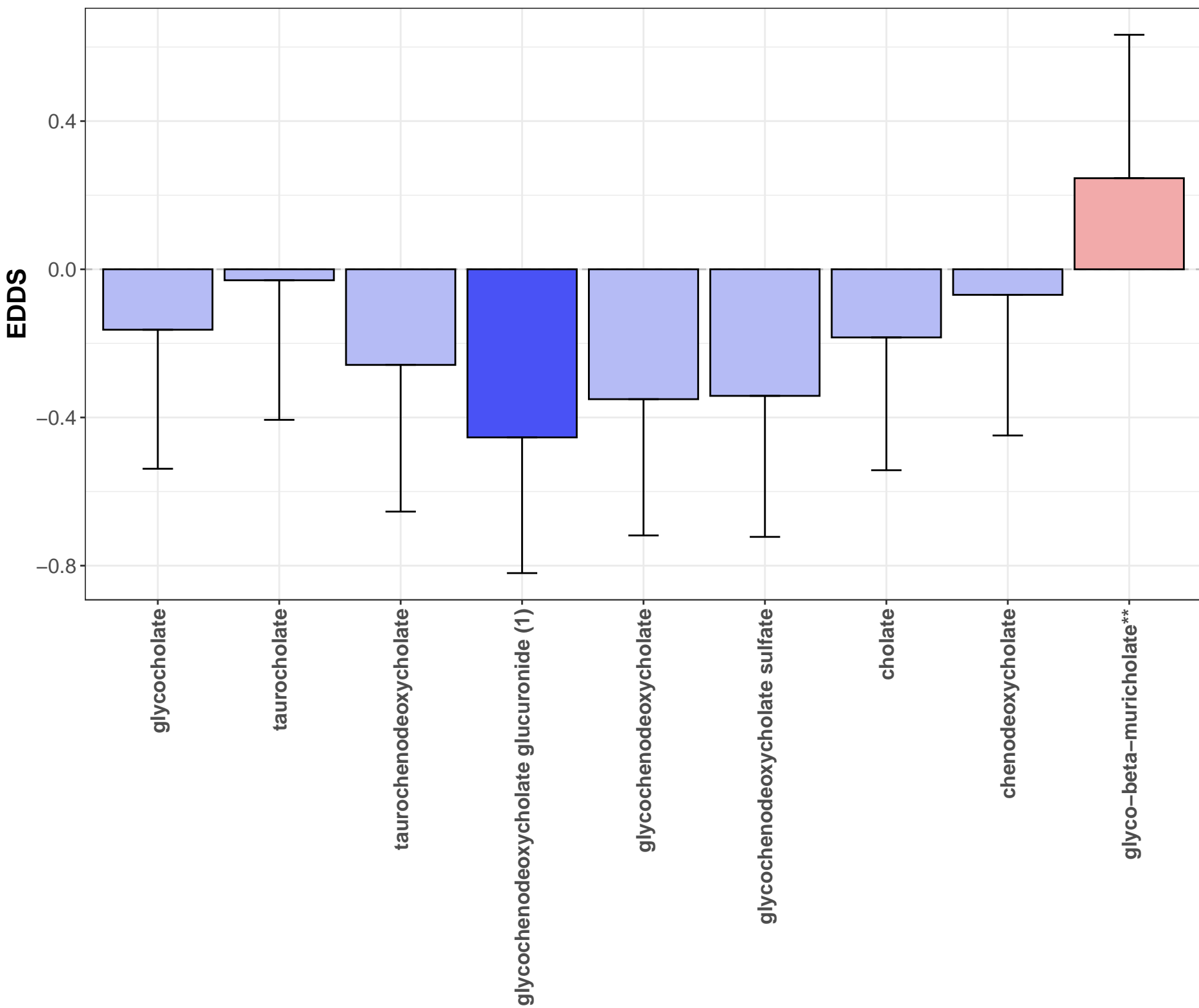
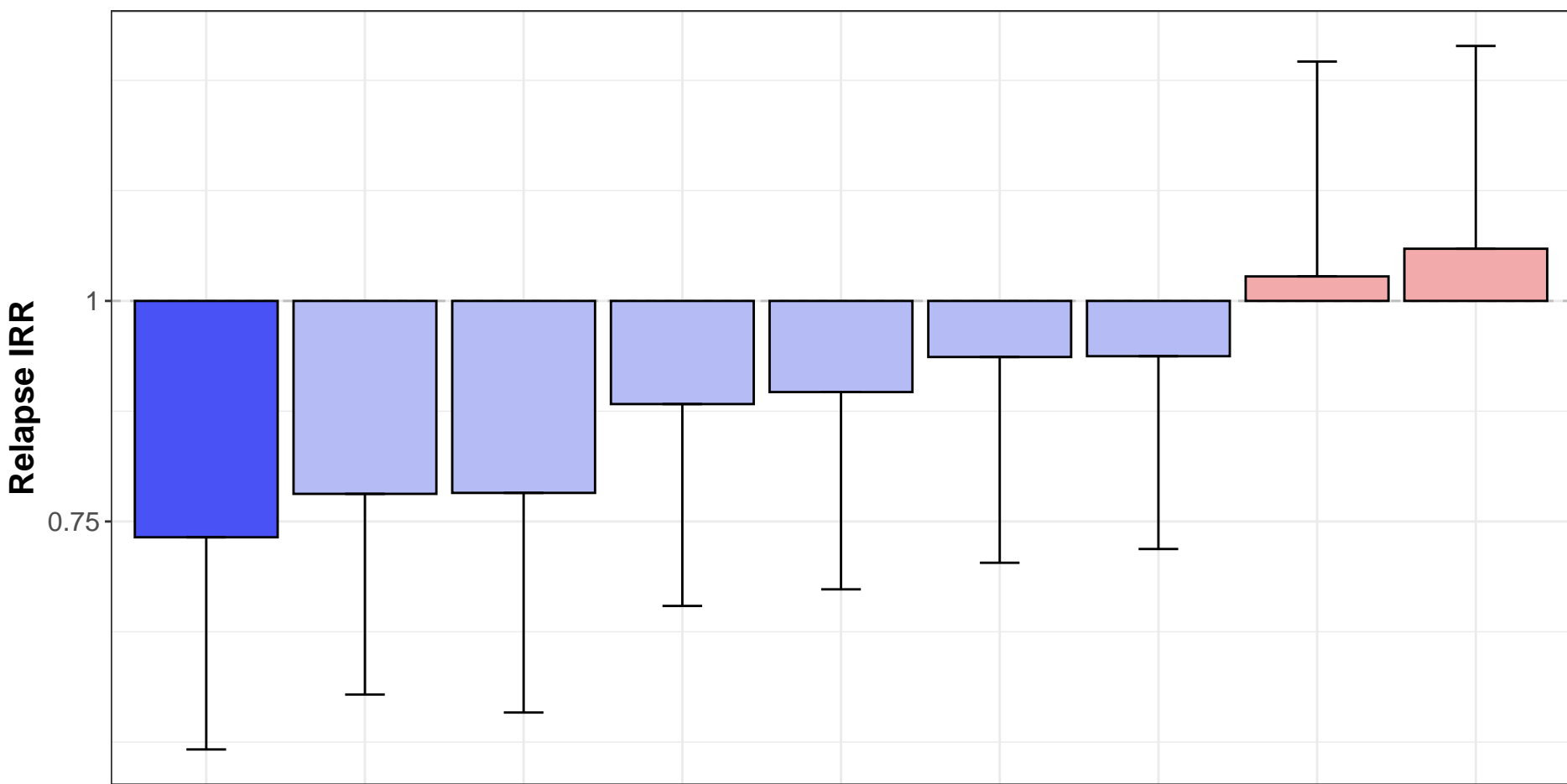
pregnenediol disulfate (C21H34O8S2)*

pregnenediol sulfate (C21H34O5S)*

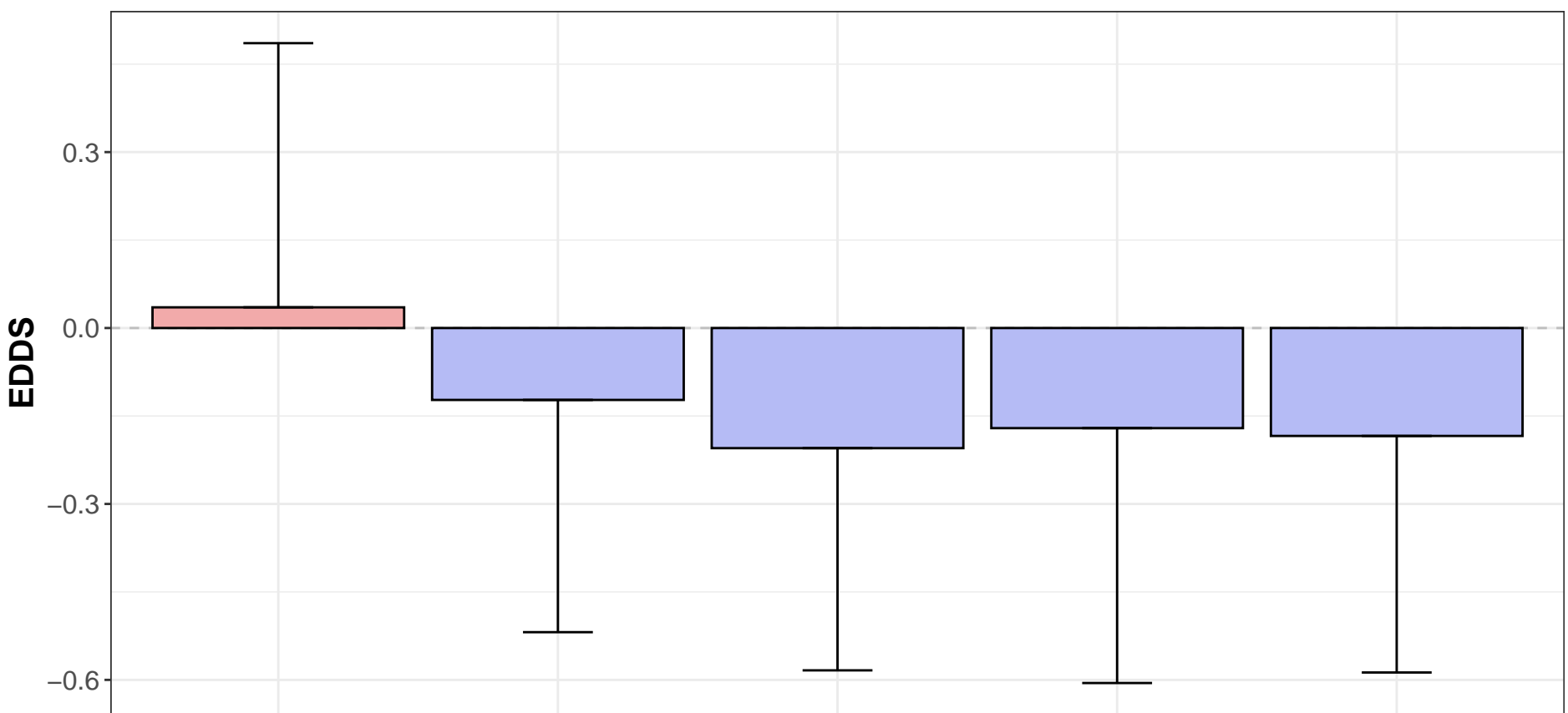
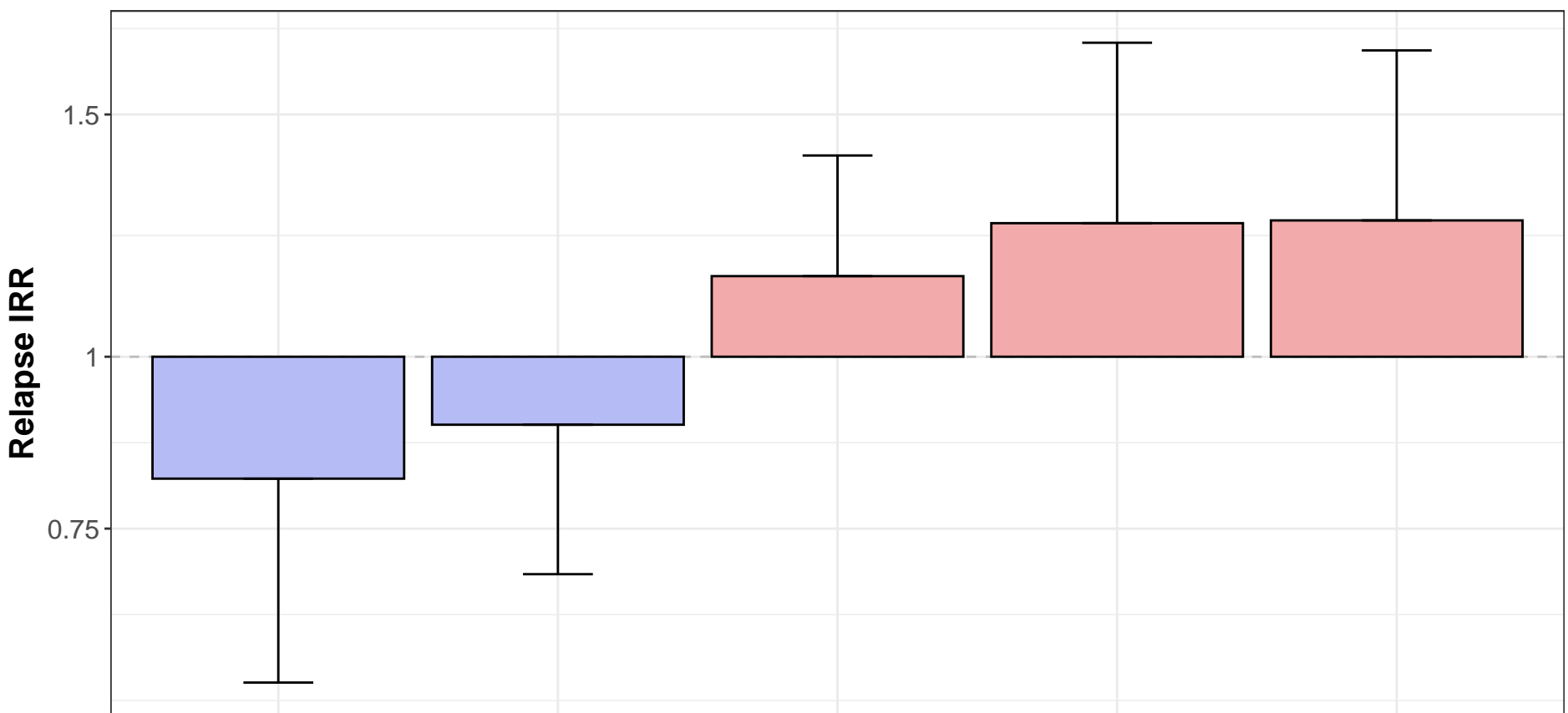
21-hydroxypregnenolone disulfate



Primary Bile Acid Metabolism



Progestin Steroids



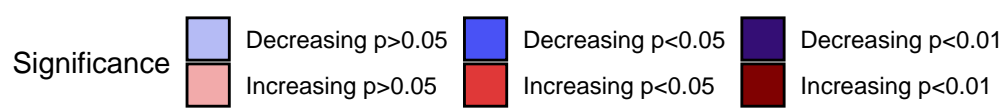
5alpha-pregnan-3,20beta-diol disulfate

pregnane-3,20-diol-3-O-glucuronide

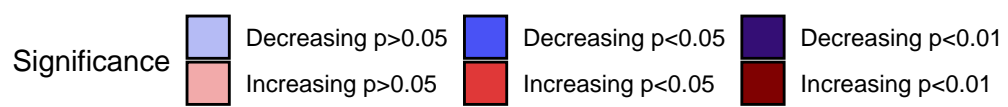
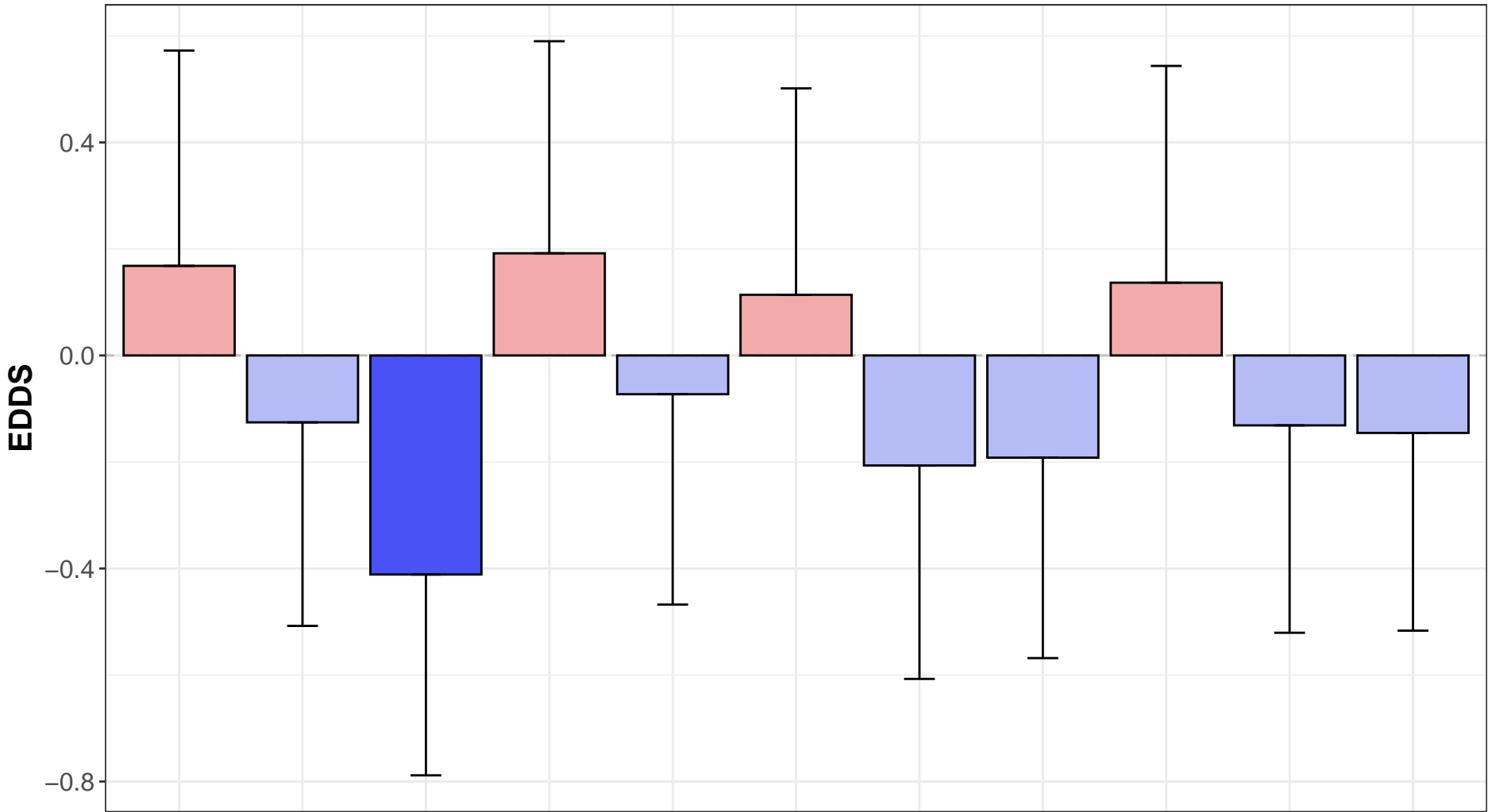
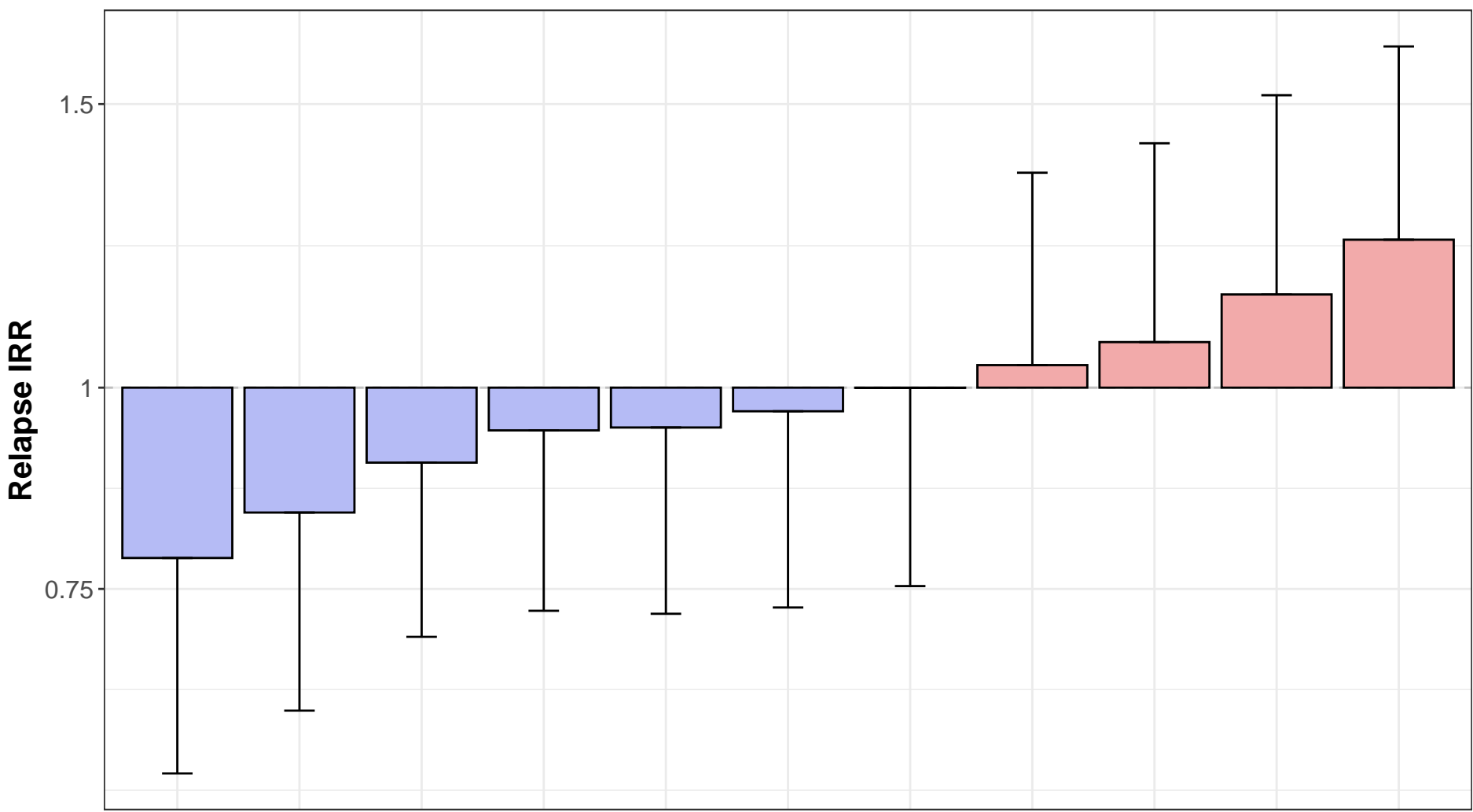
5alpha-pregnan-3beta,20beta-diol monosulfate (1)

5alpha-pregnan-3beta,20alpha-diol monosulfate (2)

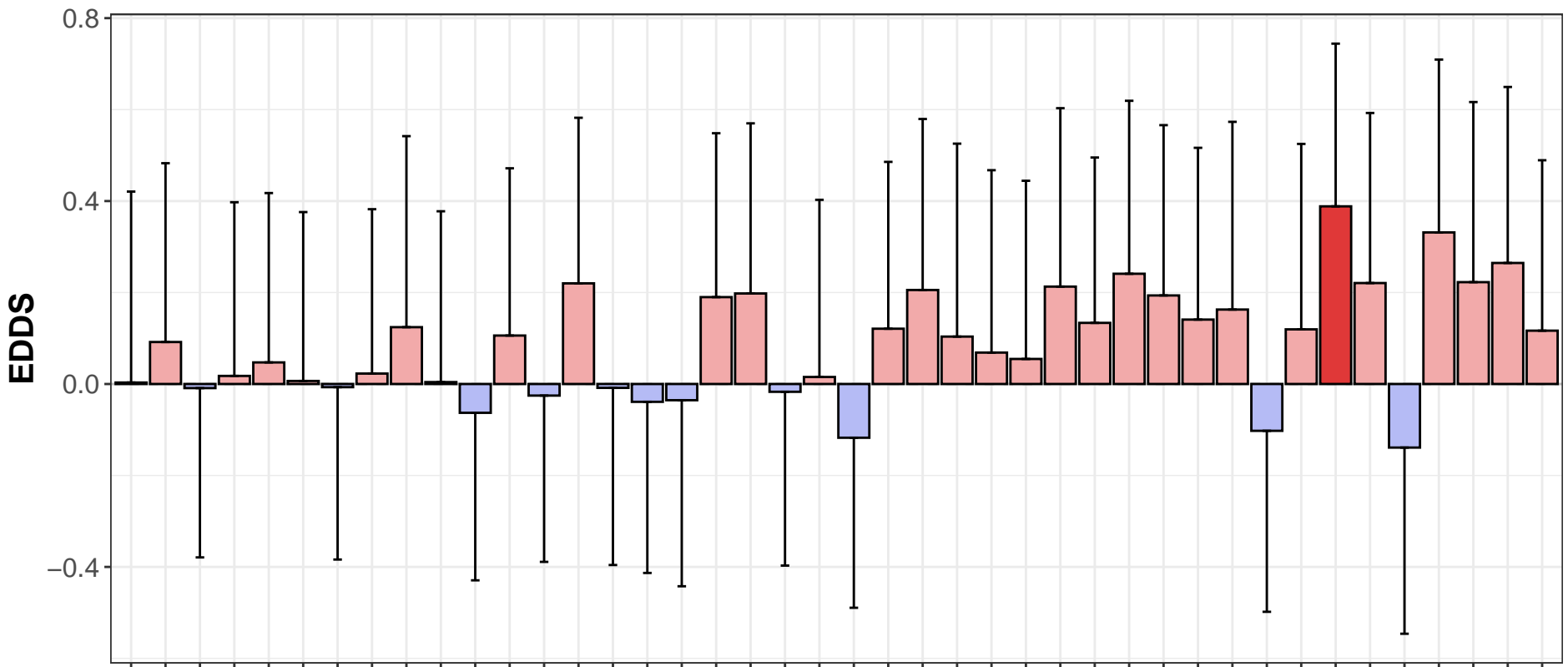
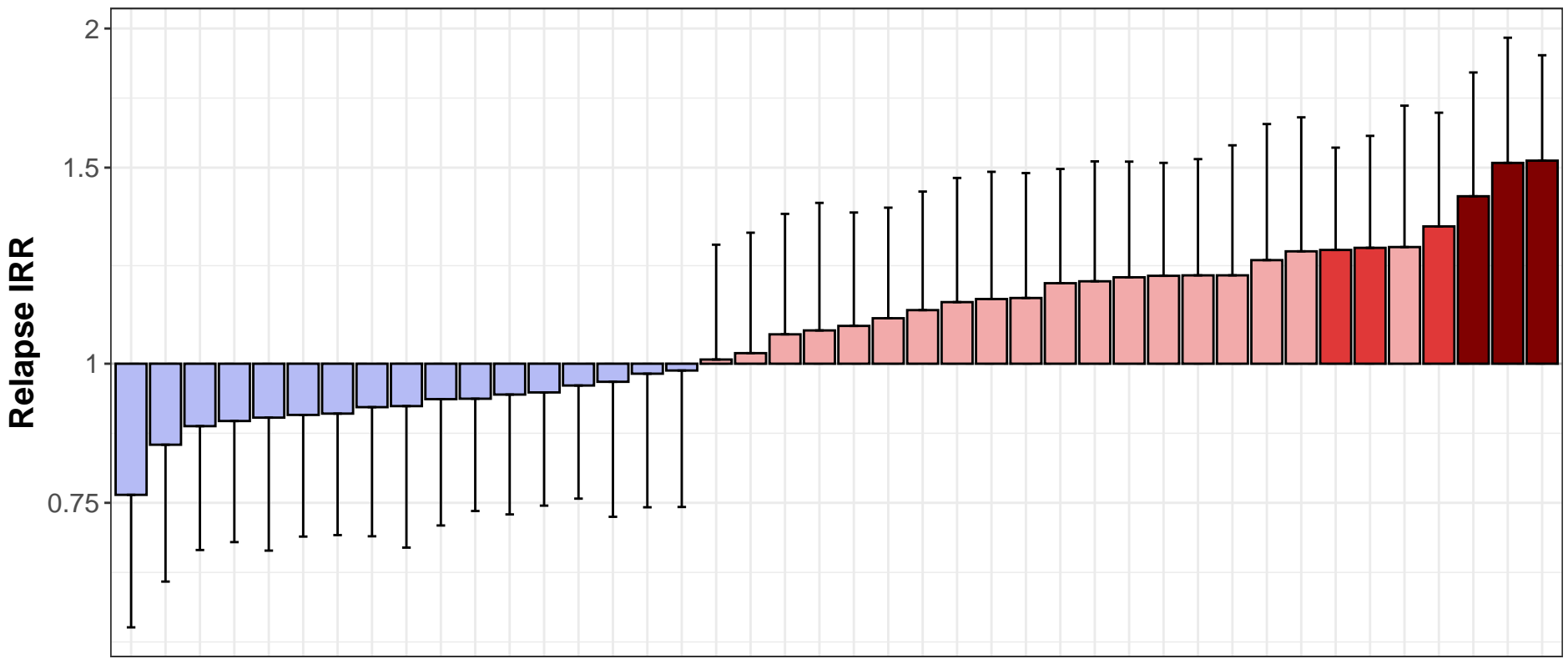
5alpha-pregnan-3beta,20alpha-diol disulfate



Secondary Bile Acid Metabolism



Spingolipid Metabolism



sphingomyelin (d17:2/16:0, d18:2/15:0)*
 sphingomyelin (d17:1/14:0, d16:1/15:0)*
 sphingomyelin (d18:1/21:0, d17:1/22:0, d16:1/23:0)*
 sphingomyelin (d18:2/23:0, d18:1/23:1, d17:1/24:1)*
 sphingomyelin (d18:1/14:0, d16:1/16:0)*
 behenoyl sphingomyelin (d18:1/22:0)*
 sphingomyelin (d18:1/22:1, d18:2/22:0, d16:1/24:1)*
 sphingomyelin (d17:1/16:0, d18:1/15:0, d16:1/17:0)*
 sphingomyelin (d18:2/14:0, d18:1/14:1)*
 palmitoyl sphingomyelin (d18:1/16:0)
 tricosanoyl sphingomyelin (d18:1/23:0)*
 sphingomyelin (d18:1/20:0, d16:1/22:0)*
 lignoceroyl sphingomyelin (d18:1/24:0)
 N-palmitoyl-heptadecasphingosine (d17:1/16:0)*
 lactosyl-N-behenoyl-sphingosine (d18:1/22:0)*
 palmitoyl dihydrosphingomyelin (d18:0/16:0)*
 N-palmitoyl-sphinganine (d18:0/16:0)
 sphingomyelin (d18:1/24:1, d18:2/24:0)*
 myristoyl dihydrosphingomyelin (d18:0/14:0)*
 behenoyl dihydrosphingomyelin (d18:0/22:0)*
 sphingomyelin (d18:2/16:0, d18:1/16:1)*
 sphingomyelin (d18:1/25:0, d19:0/24:1, d20:1/23:0, d19:1/24:0)*
 sphingomyelin (d18:0/20:0, d16:0/22:0)*
 sphingomyelin (d18:2/24:1, d18:1/24:2)*
 sphingomyelin (d18:2/21:0, d16:2/23:0)*
 sphinganine-1-phosphate
 sphingosine 1-phosphate
 sphingomyelin (d18:2/23:1)*
 sphingomyelin (d18:1/17:0, d17:1/18:0, d19:1/16:0)
 N-palmitoyl-sphingadienine (d18:2/16:0)*
 sphingomyelin (d18:0/18:0, d19:0/17:0)*
 sphingomyelin (d18:1/19:0, d19:1/18:0)*
 sphingomyelin (d18:1/20:1, d18:2/20:0)*
 sphinganine
 sphingomyelin (d18:2/24:2)*
 N-stearoyl-sphinganine (d18:0/18:0)*
 stearoyl sphingomyelin (d18:1/18:0)
 sphingosine
 sphingomyelin (d18:1/18:1, d18:2/18:0)
 sphingomyelin (d18:1/22:2, d18:2/22:1, d16:1/24:2)*
 sphingomyelin (d18:1/20:2, d18:2/20:1, d16:1/22:2)*
 sphingomyelin (d18:2/18:1)*

Significance
 Decreasing p > 0.05
 Decreasing p < 0.05
 Decreasing p < 0.01
 Increasing p > 0.05
 Increasing p < 0.05
 Increasing p < 0.01

Sterol

