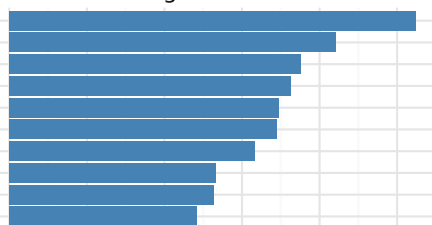


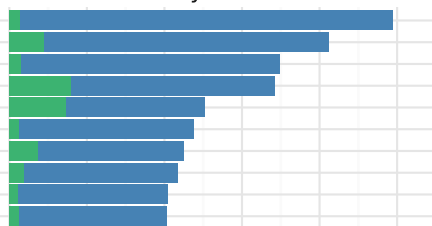
## genetics

ethylmalonate  
N-acetylcitrulline  
5-hydroxylysine  
glycochenodeoxycholate glucuronide (1)  
N-acetylarginine  
N-acetylglutamine  
N-acetyl-1-methylhistidine\*  
3-aminoisobutyrate  
5-acetyl-amino-6-formyl-amino-3-methyluracil  
androsterone sulfate



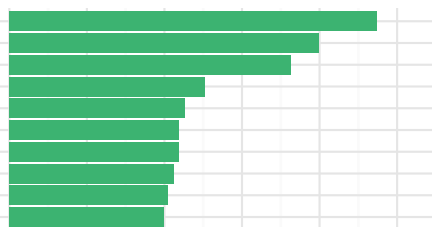
## hybrid

butyrylcarnitine (C4)  
deoxycholic acid glucuronide  
decadienedioic acid (C10:2-DC)\*\*  
N-delta-acetylornithine  
1-stearoyl-2-arachidonoyl-GPC (18:0/20:4)  
metabolonic lactone sulfate  
1-margaroyl-2-arachidonoyl-GPC (17:0/20:4)\*  
epiandrosterone sulfate  
N-acetylleucine  
4-guanidinobutanoate



## microbiome

cinnamoylglycine  
3-phenylpropionate (hydrocinnamate)  
isoursodeoxycholate  
hippurate  
5alpha-androstan-3beta,17alpha-diol disulfate  
indolepropionate  
p-cresol sulfate  
ursodeoxycholate  
phenylacetylglutamine  
glycoursodeoxycholate



0% 10% 20% 30% 40% 50%  
explained metabolite variance