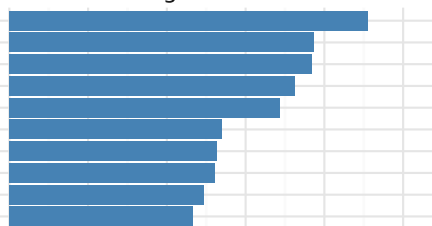


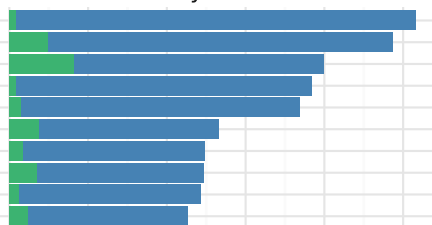
### genetics

N-acetylcitrulline  
5-hydroxylysine  
N-acetylglutamine  
decadienedioic acid (C10:2-DC)\*\*  
glycochenodeoxycholate glucuronide (1)  
N-acetyltyrosine  
N-acetylphenylalanine  
androsterone sulfate  
2'-O-methyluridine  
3-aminoisobutyrate



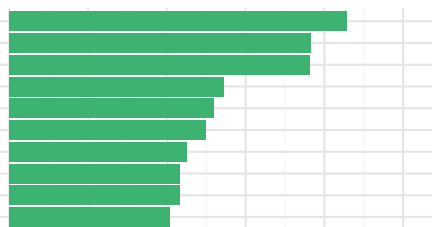
### hybrid

butyrylcarnitine (C4)  
deoxycholic acid glucuronide  
N-delta-acetylornithine  
N-acetylarginine  
N-acetyl-1-methylhistidine\*  
metabolonic lactone sulfate  
orotidine  
glycochenolate sulfate\*  
5-acetyl-amino-6-formylamino-3-methyluracil  
epiandrosterone sulfate



### microbiome

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



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