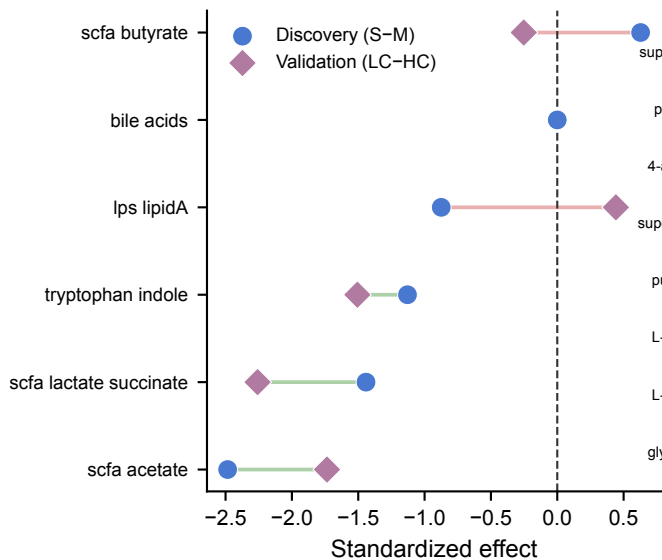
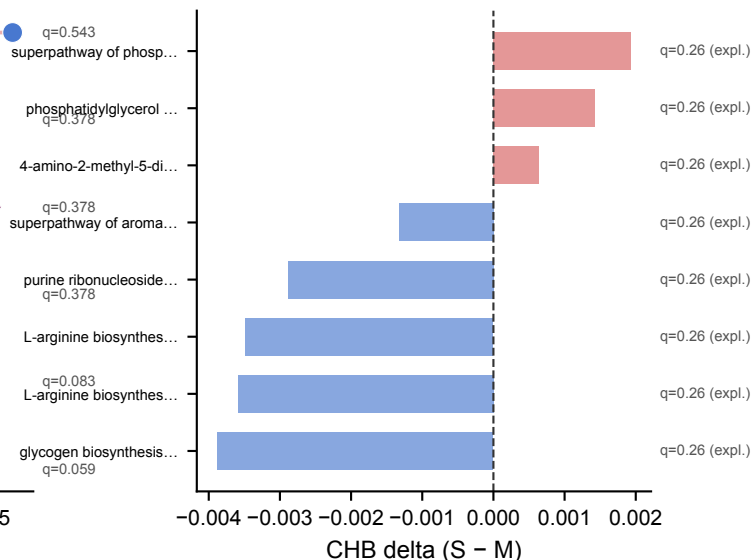
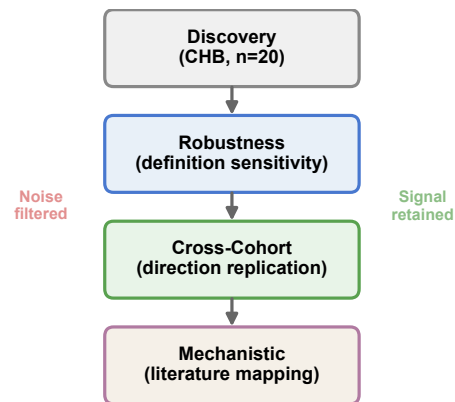


a**b**

Filter: concordant dir.; top 8 by -log10(p_CHB)

c

Module	Dir	Val	Mechanism	Ref
bile acids	^	S N	FXR/TGR5 axis	Wahlstrom2016
lps lipidA	v	S N	TLR4	Park2009
scfa acetate	v	S Y	GPR41/43	Koh2016
scfa butyrate	^	S N	Barrier integrity	Furusawa2013
scfa lactate s	v	S Y	pH modulation + T-	Louis2017
tryptophan ind	v	S Y	AhR ligand	Agus2018

d

Outcome: hypothesis-generating candidates ranked by concordance + plausibility