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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

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