

Supplementary Figures

Folate-producing bifidobacteria: metabolism, genetics, and relevance

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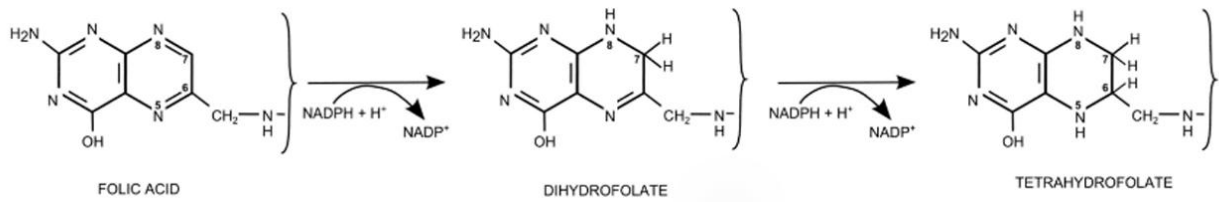
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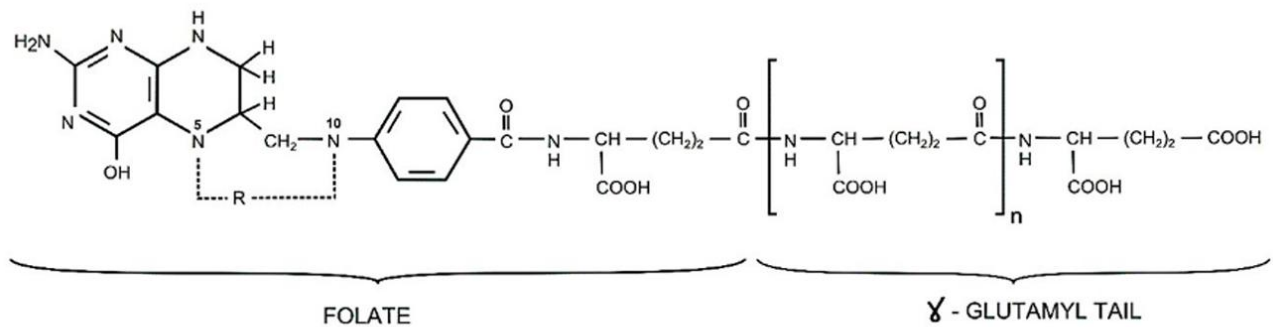
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Supplementary Figure 1. The structure of folic acid, dihydrofolate, and tetrahydrofolate.



Folates derivatives	R substitute at		Bridge (N ⁵ - N ¹⁰)
	N ⁵	N ¹⁰	
THF	-H	-H	
5-CH ₃ -THF	-CH ₃	-H	
5-NHCH-THF	-CH=NH	-H	
5-HCO-THF	-HCO	-H	
10-HCO-THF	-H	-HCO	
5,10-CH ₂ -THF			-CH ₂ -
5,10-CH ⁺ =THF			-CH ⁺ =

Supplementary Figure 2. The structure of folate and its derivatives. Folates commonly have a γ -polyglutamyl tail linked to the first glutamate ($n \leq 8$ residues). Different one-carbon units (R substitutes) can be linked to the N⁵ and/or N¹⁰ positions.