

# Review of: "Decoding the Promiscuous Activity of Bile Salt Hydrolase"

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**Potential competing interests:** No potential competing interests to declare.

I'm delighted to present my perspective on the preprint, 'Decoding the Promiscuous Activity of Bile Salt Hydrolase,' authored by Prof. Munishwar Nath Gupta and Prof. Vladimir Uversky. This preprint, which delves into the promiscuous nature of a bile salt hydrolase (BSH) from gastrointestinal bacteria, is a significant contribution to our understanding of host metabolism. The enzyme's role in catalyzing the formation of bile acid amides is crucial. The studies on the promiscuous nature of the enzyme, as identified by Rimal et al., are particularly intriguing, whether conditional or mechanisms-based. However, a deeper exploration of the metabolic relevance and flexibility caused by the enzyme's promiscuity would enhance its clarity. The inclusion of a few examples of the promiscuous nature of biological catalysis could also be beneficial.