

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

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In their commentary on the published article by Rimal et al. (2024), Gupta and Uversky propose a possible mechanism for the promiscuous activity of bile salt hydrolase (BSH), suggesting a dual role of bile salts both as substrates and micelle-forming agents. The commentary is clearly written, and it offers valuable insights into the promiscuous enzymatic activity of BSH and its impact on host physiology. The proposed mechanism based on in vivo micellar enzymology to realize an environment for BSH to catalyze the synthesis of bacterial bile acid amidates is fascinating. We encourage the addition of one figure to better detail the substrate-enzyme-micelle interplay.