

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

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

The article <https://doi.org/10.32388/4BKYAF>, titled Decoding the Promiscuous Activity of Bile Salt Hydrolase, is focused on understanding the role of bile salts in acting as substrates as well as forming a micellar environment where bacterial bile salt hydrolases activate at the interface, forming bacterial bile acid amidates through an amidation reaction. Although the interfacial activation has been observed in lipases, the observations that the bile salts act as both substrates and micelle-forming agents create an environment conducive for BSH to catalyze amidation reactions, which shall add a new horizon to the understanding of interfacial activation in a non-aqueous environment and warrant further understanding of this reaction at even critical low concentrations of the bile salt and alternative surfactants.

I would suggest the authors to add figures related to interfacial activation and the critical micellar activation of previously reported enzymes if available.

According to me, the article is presenting novel information and giving a great opportunity for researchers to understand the reactions catalyzed under conditional promiscuity.

The manuscript is well written, and the addition of one table and figures about the previous literature may be enough for the final acceptance of this article.