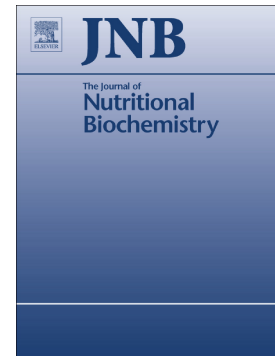


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# **A critical review on the impacts of $\beta$ -glucans on gut microbiota and human health**

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**Short title:** Effects of  $\beta$ -glucans on gut microbiota

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