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## Retraction: Dealcoholized muscadine wine was partially effective in preventing and treating dextran sulfate sodium-induced colitis and restoring gut dysbiosis in mice

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rsc.li/food-functionRetraction of 'Dealcoholized muscadine wine was partially effective in preventing and treating dextran sulfate sodium-induced colitis and restoring gut dysbiosis in mice' by Hao Li *et al.*, *Food Funct.*, 2023, **14**, 5994–6011, <https://doi.org/10.1039/D3FO00047H>.

We, the first and corresponding authors, hereby wholly retract this *Food & Function* article. It has come to our attention that incorrect statistical methods were used to compare values in different treatment groups. We have confirmed that the majority of the significant differences reported in the initial submission had high risks of being false positives due to the lack of control for family-wise error rate and multiple-comparison adjustment of *p* values. This is a result of honest errors made in the data analysis.

The claims in the article that DMW affected serum levels of IL-1 $\beta$ , IL-6, IL-1 $\beta$  mRNA, TNF- $\alpha$  mRNA, FITC permeability, p-I $\kappa$ b- $\alpha$ /I $\kappa$ b- $\alpha$  protein ratio, ZO-1 mRNA, occludin protein, and cecum SCFA should be disregarded. It is now believed that the activity of DMW was much weaker than initially reported. It appeared that DMW in all three groups decreased the MPO activity in the colon of colitis mice. DMW in the treatment group prevented colon shortening compared to the colitis group. DMW in the treatment and P + T groups improved the histological score of the colon compared to the colitis group. DMW in the P + T group partially restored gut dysbiosis in colitis mice as reflected by diversity and differentially enriched taxa in the gut.

All co-authors agree to this retraction.

Signed: Hao Li and Liwei Gu

Date: 23<sup>rd</sup> February 2024

Retraction endorsed by Rebecca Garton, Executive Editor, *Food & Function*

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