Reviewer's report

Title: Brewers' rice induces apoptosis in azoxymethane-induced colon carcinogenesis in rats via suppression of cell proliferation and the Wnt signaling pathway

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Reviewer: Ganapasam Sudhandiran

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Brewers’ rice induces apoptosis in azoxymethane-induced colon carcinogenesis in rats via suppression of cell proliferation and the Wnt signaling pathway

In this manuscript Ling et al have analysed the effect of Brewer’s rice against azoxymethane- induced colon carcinogenesis via inhibiting Wnt/beta –catenin pathway. The authors speculated that Brewer’s rice induces apoptosis in azoxymethane induced colon cancer in a rat model. Though the dosage of Azoxymethane sounds appropriate, this reviewer is unclear with the dosage of Brewer’s rice. Nowhere in the manuscript, are the details of Brewer’s rice intake of animals mentioned. The authors have supported their findings with Immunohistochemical analysis and TUNEL assay. The experimental design and results of this study sounds reasonable and convincing enough to prove that brewers rice induces apoptosis in AOM induced colon carcinogenesis. This reviewer is convinced with the discussion part of this manuscript. The authors have taken time to write a discussion in support of their findings. Overall this manuscript is well written. While this manuscript, sheds additional insights into the area of colon cancer, there are several minor concerns that attention.

Injection period of Azoxymethane should be specified. Once weekly for two weeks is not clear.

What is the nutritional value of Brewer’s rice? What component of this rice induces apoptosis? Are there any available reports?

The authors should mention how much quantity of Brewers rice they have fed the animals with (P.No.5).What did the authors mean by rTDT (P.N.8)? What is the hypothesis of choosing 10-40% of brewer’s rice..?

Rectify the typographical errors (P<0.05) throughout the manuscript.

Grammatical errors need to be rectified. For eg: “Several studies reported by Norhaizan et al. [12] have also shown that rice germ can prevent AOM-induced colonic aberrant crypt foci (ACF) in rats” (P.No.3)