Reviewer’s report

Title: A biological extract of turmeric (Curcuma longa) modulates response of cartilage explants to lipopolysaccharide

Version: 1 Date: 28 Jun 2019

Reviewer: Somanshu Banerjee

Reviewer’s report:

In vivo study may be necessary to re-confirm the simulated gastrointestinal digestion and biotransformation of turmeric through the oral gavage route with appropriate dosimetry and check the levels and distribution of its active components (using the HPLC and/or UPLC-MS instrumentations) in blood and the site of interest (e.g., intercarpal joint etc.) of the animal model (i.e., pre-clinical settings) to extrapolate these findings into clinical use. Further, mini-pumps or nano/micro-tubes with the biological extract of turmeric can be implanted into the joints of arthritis model animal and the cartilage inflammatory response to be evaluated to strengthen the findings of this study.

Again the authors are requested to evaluate the response of arthritis-specific interleukin signaling in the joint tissues/fluids to establish a clear picture on the anti-inflammatory properties of turmeric.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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