Reviewer's report

**Title:** Healing Potential of Picrorhiza kurroa (Scrofulariaceae) rhizomes against indomethacin-induced gastric ulceration: an experimental evaluation

**Version:** 1  **Date:** 2 October 2007

**Reviewer:** DEBASIS BAGCHI

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General Title: Healing potential of Picrorhiza kurroa (Scrofulariaceae) rhizomes against indomethacin-induced gastric ulceration: an experimental evaluation

Authors: D. Banerjee, B. Maity, S.K. Nag, S.K. Bandopadhyay, S. Chattopadhyay

This is an interesting mechanistic exploration. The authors conducted an interesting mechanistic study to evaluate the potential of the rhizomes in healing indomethacin-induced acute stomach ulceration in mice and examine its modulation of oxidative stress as well as the levels PGE2 and EGF during the process. The authors conducted a mechanistic exploration and demonstrated the comparative protective effects of Picrorhiza kurroa and omeprazole against indomethacin-induced stomach ulceration in mice. The authors quantified the protein and lipid damages during ulceration and healing. Furthermore, the authors measured NP-TSH, mucin and PGE2, as well as conducted EGF expression assay.

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Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)

The manuscript is recommended for acceptance with the following changes:

Change the Title to Healing potential of Picrorhiza kurroa (Scrofulariaceae) rhizomes against indomethacin-induced gastric ulceration: a mechanistic exploration.

Include a Statistical Analyses section in the manuscript

In the ulcer induction section on page 7, include the age of the mice used in this study.

Include a reference to justify the dose of indomethacin used in this study to cause ulceration.

The manuscript is recommended for acceptance with these changes.

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)
High Quality Figures are required for this publication.

Discretionary Revisions (which the author can choose to ignore)

**What next?:** Accept after minor essential revisions

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

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