Reviewer’s report

Title: Iranian propolis efficiently inhibits growth of oral streptococci and cancer cell lines

Version: 0 Date: 18 Feb 2019

Reviewer: Satya N. Das

Reviewer's report:

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In this study the authors have determined the chemical composition of ethanol extract of Iranian propolis from Ardabil origin (AEEP) by HPLC. Both AEEP and its main component, quercetin (Q) were evaluated in vitro against 57 oral streptococci using minimum inhibitory concentration (MIC) and minimum bactericidal concentration (MBC) by broth microdilution method and MTT assays. Effects of AEEP on cell viability was measured by MTT assays on cancer cell lines, KB and A431 cell lines along with fibroblast as control. Based on the results the authors conclude that the main components of AEEP (Q) inhibit oral streptococci through their antibacterial effects as well as exerts cytotoxic effects on cancer cells lines.

This is a flat study showing preliminary data but not the mechanism of such activity. The conclusion is based on only MTT assay. The authors should confirm such activities of AEEP and Q by using few more assays and explain their mechanism of action.
Are the methods appropriate and well described?  
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?  
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