Reviewer’s report

Title: Antileishmanial evaluation and cytotoxic potential of a novel compound N-octacosan-7β-ol, isolated from Fumaria parviflora Lam.

Version: 1 Date: 9 December 2013

Reviewer: Veeramuthu Duraipandiyan

Reviewer’s report:

Reviewer’s comments

Title of the manuscript: Antileishmanial evaluation and cytotoxic potential of a novel compound N-octacosan-7β-ol, isolated from Fumaria parviflora Lam.

1. I didn’t see any Table content in the manuscript. Authors have mentioned in the results section only. Include tables

2. Authors mentioned novel compound of n-octacosan-7β-ol was isolated from Fumaria parviflora showed good activity against leishmanicidal, bactericidal, fungicidal, cytotoxicity and structure was confirmed by spectroscopic data analysis. But 2D NMR is the most common method for structure confirmation for novel compound. But I didn’t see any 2D NMR data in the manuscript.

3. Author should include the 2D NMR data.

4. 1H NMR chromatogram was not clear, because peak area of the 1H NMR spectrum was confusion.

5. Author did check the purity of the compound by HPLC.

6. Yields of the compound should be included

7. Author should check the total NMR data (eg-J= 6.0 Hz change to J= 6.0)

8. Discussion is very poor. Author should include relevant area of leishmanicidal, bactericidal, fungicidal and cytotoxicity activity in discussion section.

9. Author may test more than 10 microbes (Gram positive and Gram Negative)

Page 3, line 21 "the genus name should be written in italic and followed by sp".

Page 4,line 6 "leishmania changed into leishmainasis ".

Page 4, line 10 "after word techniques should be place [,] then should be write active compound will be test against bacterial strain Staphylococcus epidermidis, fungal strain, Candida albicans and protozoal strain Leishmania donovani promastigotes."

Page 5, line 4 "the same note for previous comment"

Page 5, line 4 the genus & species name should be written in italic.

Recommendation:
The manuscript needs major revision, after the above corrections carried out by authors manuscript may be consider further process.

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests’