Reviewer’s report

Title: Phenolic and flavonoid profile, antimycobacterial properties of six selected Turkish plants (Lamiaceae) used for tea, spice and folk remedies

Version: 2 Date: 24 September 2013

Reviewer: Mariam Degani

Reviewer's report:

The paper screens extracts from several Turkish plants having phenolic constituents for anti-mycobacterial activity. The work is comprehensive and interesting.

Minor Essential Revisions:
1. The solubility of the 100mg/mL stocks in DMSO has not been mentioned. Also, the cell counts of the bacteria used for the various strains have not been mentioned.
2. In the abstract the authors mention the Mycobacterial species whereas the term strains would be more appropriate. Also the origins of Strains 1 & 2 have not been mentioned in the material data. Some mention about the source and nature of these strains (MDR/XDR) is appropriate. In the list of abbreviations.
3. BACTEC has been mentioned without any reference in the paper
4. The 37 in H37Rv is not uniformly depicted as subscript in the paper.
5. The term chemical flood appears in the Materials and Methods which needs to be explained.
6. Minor grammatical errors need to be rectified in the paper.

Discretionary Revisions:
1. If the individual standards, especially rosemarinic acid and chlorogenic acid are screened for the activity, it would confirm the proposition of the active/inactive component.
2. The final conclusion states the importance of flavonoids as the models for drug design. However some the extracts which are active have components which are phenolic but not flavonoids. Further clarification is required for this statement.

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

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a
statistician.

**Declaration of competing interests:**

Non-financial competing interest:
My laboratory is exploring similar phytochemicals from other plants against whole cell as well as a specific enzyme target in *Mycobacterium tuberculosis.*