



SDI Review Form 1.6

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_42399
Title of the Manuscript:	Comparitive metabolite profiling of drought stressed leaf and stem of G. hirsutum L. using a gas chromatography-mass spectroscopy technique
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<u>Compulsory</u> REVISION comments	<p>The authors of the work "Comparative metabolite profiling of drought stressed leaf and stem of <i>G. hirsutum</i> L.." assessed the effect of stress caused by drought on the content of non-polar metabolites in leaves and stems of <i>Gossypium hirsutum</i> using a gas chromatography-mass spectroscopy technique.</p> <p>The work may be valuable, however, the authors should make some corrections and re-edit the discussion and conclusions.</p> <p>Authors should better justify the purpose of the research. The leaves and stems of <i>G. hirsutum</i> are not the main raw material obtained from this plant.</p> <p>The authors should provide the exact number of plants used for investigation. The results have no scientific value if the experiment was carried out using only two plants.</p> <p>There are repetitions in lines 70-85. In addition, the description of the operating principle for GC is unnecessary. This is commonly known.</p> <p>The authors should provide an example of chromatogram and provide the MS spectra to Supplementary material.</p> <p>Discussion and conclusions should be re-edited. The conclusion on the mechanism of accumulation of metabolites in a plant is overstated. Such studies only</p>	<ul style="list-style-type: none"> Although, the selection of plants was limited but the sampling was done in five replicates (control and water stressed plant). Now, these details are also mentioned in the material and method part of the manuscript. Repeated lines and operating principles of GC are deleted from the text. Now it has been provided as supplementary material. Now, discussion and conclusion part have been revised as per suggestions.



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	provide information on the induction (or inhibition) of biosynthesis the metabolites connected with drought stress.	
<u>Minor</u> REVISION comments	<p>The authors should give the full Latin name of the plant in the title of the work.</p> <p>The authors should explain all abbreviations used in the work, eg: TMS, MSTFA, M.W., S.No., SI.No., ND.</p> <p>If the authors used standards (I.82) then they should provide their retention times in table 1.</p> <p>Was the qualitative analysis carried out using Kovats retention indices? If so, it should be written in the text. Such analysis is recommended.</p> <p>In Table 1, the column "Mass fragmentation" should be named "Mass data". Ions (M^+) are not fragmentary ions. In addition, the abbreviation "m/z" should be moved to the headline of the column: "Mass data (m/z)".</p>	<ul style="list-style-type: none"> • Now full Latin name has been written. • Now, all the abbreviations are explained in first time in the manuscript. • Standard was not used in this study. Moreover TMS, MSTFA were used as reagent for derivatization of the samples prior to GC-MS analysis. • Kovats retention indices were not taken. • Now in Table 1, the column "Mass fragmentation" corrected as "Mass data (m/z)".
<u>Optional/General</u> comments		