### Journal Name:
British Journal of Pharmaceutical Research

### Manuscript Number:
Ms_BJPR_27974

### Title of the Manuscript:
COMPARATIVE FATTY ACIDS PROFILING AND ANTIOXIDANT POTENTIAL OF PAWPAW AND WATERMELON SEED OILS

### Type of the Article
Original Research Article

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**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:

### PART 1: Review Comments

<table>
<thead>
<tr>
<th>Compulsory REVISION comments</th>
<th>Reviewer’s comment</th>
<th>Author’s comment (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)</th>
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<tr>
<td>- Why to compare in the same work papaya seed oil and watermelon seed oil, plants of different genus and family? - The scientific design is very poor. The Authors do not explain how many oils they analyzed for each plant. I suspect only one and this is not enough to characterize one oil; - No information is given about the agronomic treatments to plants; - No information is given about the micro-climate of the area of cultivation; - The English language has to be improved; - The statistic section is missing; - In the introduction section you state that other Authors found in watermelon seed oil 64.5% as linoleic acid whereas you found 17.23%. Why this difference? Are you sure your identification of FAMEs is correct? - The temperature is not correctly written, for example 50 °C and not 50°C; - The name of each compound has to be written in small letter: gallic acid, myristic acid,...... - Page 3: you do not estimated the DPPH value, you determined it, in fact you made an analysis and not an estimation; - Line 124: Fatty acids methyl esters...? - Line 125: the method they used for methylation is an old method for vegetable oils.</td>
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oils having an high free acidity (more than 5% as oleic acid). They do not know the acidity of the studied oils, I think it is better to use a KOH solution and a cold methylation;
- Line 161 and table 1: the formula of hexenal is different, which is the correct one?
- Tables 1-2-3: the formulas of fatty acids are wrong. Octadeca (19 carbon atoms)? Stearic acid with 19 carbon atoms?
- Some journal name is incorrectly written: lines 288, 305, 308;
- The Authors are not consistent with the guidelines of BJPR;
- Table 2: palmitic acid: 17 carbon atoms?
  Table 2: palmitoleic acid: 17 carbon atoms?

**Reviewer Details:**

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<tr>
<th>Name:</th>
<th>Anonymous</th>
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<tbody>
<tr>
<td>Department, University &amp; Country</td>
<td>University Mediterranea of Reggio Calabria, Italy</td>
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