

### Review Form 3

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| Journal Name:            | <a href="#">Annual Research &amp; Review in Biology</a>                                 |
| Manuscript Number:       | Ms_ARRB_125869  |
| Title of the Manuscript: | Finger Print Patterns amongst Federal Polytechnic Ede Students, in Osun State, Nigeria. |
| Type of the Article      |   |

#### PART 1: Review Comments

| Compulsory REVISION comments   | Reviewer's comment   | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| <b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>                        | Such studies, conducted in different parts of the world, involving a good number of subjects (1000 students in this study) are important to validate/re-validate/nullify/revise the established percentage frequency distribution of friction ridge patterns amongst human population. In 1892, Dr Francis Galton studied 5000 prints, in 1905 Scotland Yard examined 50000 prints, in 1953 CFPB India compared 50000 prints, to analyze the % frequency distribution of arch, loop and whorl patterns. Furthermore, there were four AFIS based studies involving a vast fingerprint database, conducted in India in 2006, for determining the FP pattern distribution. The reviewer is also aware of more similar studies, to have been taken up in India, between 1963 and 2021. Similar studies have also been conducted in Nigeria, which the author of this paper has either ignored or not aware of. |  |
| <b>Is the title of the article suitable? (If not please suggest an alternative title)</b>  | <b>Yes, suitable.</b>  |  |
| <b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>   | <b>ABSTRACT:</b> The last two lines (L-11 &12) mention.... there was <b>an association between the distribution of fingerprint patterns and gender</b> . Here, the author should precisely write about the inferred connection between fingerprint patterns and gender: simply writing, that there was an association may not suffice. In the <b>RESULTS</b> section the author has compared the distribution <b>patterns according to handedness</b> , but that has not been mentioned in the abstract. Furthermore, the author compares distribution of <b>patterns according to the Intelligence</b> of the students. But it has not been mentioned anywhere in the article, <b>except in the RESULTS</b> .   |  |
| <b>Are subsections and structure of the manuscript appropriate?</b>  | Structure of the manuscript seems to be fine, but some parts in the sub-sections are totally irrelevant, and others written without any evidence, or appropriate reference/s.<br><b>INTRODUCTION:</b> Pg 2 para 2: Line 12-16, author mentions .... <b>before this study, there was no evidence that automatic fingerprint recognition systems would be able to correctly match samples of the same (juvenile)...which study is the author talking about, s/he does not seem to have used AFIS in this particular research</b> , if it is about some other research, s/he <b>should cite the reference</b> .<br><b>INTRODUCTION:</b> Pg 3: para 1, <b>author quotes....in Lines-4 &amp; 5, Limson, 2014, &amp; in Line 8 Herschel (2014), which is not mentioned in the REFERENCES</b>   |  |
| <b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b> | <b>RESULTS:</b> Pg 8, para2 Lines 4... <b>talks of handedness in total population sample, but here the author elaborates more on intelligence of students, and not handedness.</b><br><b>RESULTS:</b> Pg 8, para2 Lines 5-8, author writes... <b>Subjects with superior intelligence have the least of arches, loops and whorls</b> . What was the criteria of the author for judging the <b>intelligence Quotient</b> of 1000 students? The author has divided the 1000 subjects/students into categories on the basis of intelligence, i.e., average <b>intelligence, high average intelligence, borderline intelligence, low average intelligence, superior intelligence, etc</b> . I am not sure whether it is within the domain of expertise of the author to decide on students' intelligence levels. <b>The author may be asked to clarify, it's an ethical issue.</b>                              |  |

**Review Form 3**

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|   | <p><b>DISCUSSION:</b> Pg.9 Para 2, <b>the author writes... there were no earlier report on the relationship between fingerprint patterns and handedness.</b> The author needs to do a little more of literature review, there have been studies, and published material available on the internet, on fingerprint patterns and handedness, the reviewer himself is aware of papers published on similar topics in the recent past (2020 &amp; 2021). <b>The author may please go through the following publication:</b><br/> <b>Correlation between Fingerprint Patterns and Sex, Genotype, Intelligence Quotient, and Handedness among Nigerian Senior Secondary School Students</b><br/> Ojo Gideon Babatunde, Adedokun Precious Olufunmilayo, Adedokun Musiliu Oluwaseun<br/> DOI: <a href="https://doi.org/10.31058/j.em.2020.21002">https://doi.org/10.31058/j.em.2020.21002</a>, Publication Date: 5 August 2020.</p> <p><b><i>The manuscript will get better after suggested deletions and induction of more references. More relevant information can be added after further literature review, and reading more published papers/studies on similar topics, like, right/left handedness, distribution of FP patterns, gender and percentage frequency of FP patterns, etc.</i></b></p> |  |
| <p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b><br/>=</p> | <p>More references, especially more recent ones should have been included, for qualitative enhancement of this research paper/article. One publication has already been mentioned above. Furthermore, there are more published papers available on the internet on similar topic, the author may work a little harder on literature review.</p>   |  |
| <p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>                      | <p><b>ABSTRACT: Line-3 mentions.... appearance of ridges lines.</b> It would be more appropriate to write ...appearance of <b>ridges</b> or appearance <b>of ridge lines</b>. <b>In line-5 word 'bio' has been used</b>, seems like a typographical error..., if so, should be removed<br/> <b>Repetition of information should be avoided.</b><br/> <b>The matter not relevant to the topic should be removed.</b><br/> <b>REFERENCES should be revisited.</b><br/> <b>May not mention any information without evidence or appropriate reference.</b><br/> <b><i>Language and the quality of the article will get better, after incorporation of suggestions made in different part of the review form.</i></b></p>  |  |
| <p><b>Optional/General</b> comments</p>   | <p>Needs incorporation of suggestions made in different part of the review form.</p> <p><b>RESULTS:</b> Pg 8 para2: The author has divided the 1000 subjects/students into categories on the basis of intelligence, i.e., average <b>intelligence, high average intelligence, borderline intelligence, low average intelligence, superior intelligence, etc.</b> I am not sure whether it falls within the domain of expertise of the author to decide on students' intelligence levels. Whether the author a clinical psychologist or a psychiatrist, authorized to conduct such a study. If yes, whether informed consent of the subjects and their parent/guardians, was taken before collection their demographic details and fingerprints? <b>The author may be asked to clarify, it's an ethical issue.</b></p>   |  |

**PART 2:**

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|  | <p><b>Reviewer's comment</b></p>  | <p><b>Author's comment</b> (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)</p> |
| <p><b>Are there ethical issues in this manuscript?</b></p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> |   |

**Reviewer Details:**

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|---|-------------------------------------|
| <p>Name:</p>                                | <p><b>Surender Pratap Singh</b></p> |
| <p>Department, University &amp; Country</p> | <p><b>India</b></p>                 |