

## REVIEWER'S REPORT

Manuscript No.: IJAR-53054

Date: 31-07-2025

**Title: A Comparative Fingerprint analysis of different ethnic groups of Himachal Pradesh**

### Recommendation:

**Accept as it is** .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality			✓	
Clarity		✓		
Significance		✓		

Reviewer Name: Mir Tanveer

### Reviewer's Comment for Publication.

#### Abstract Review:

The abstract effectively introduces the relevance of fingerprint analysis in forensic identification, with a specific focus on how ethnic variation may influence fingerprint pattern distribution. The study's objective is clearly stated: to explore potential links between ethnic groups and fingerprint pattern dominance. The methodology is summarized concisely, involving 100 individuals from four distinct ethnic groups in Himachal Pradesh. The use of rolled impressions and statistical analysis at the  $p < 0.05$  level is highlighted. The conclusion is clear and states that ethnicity appears to have a statistically significant role in fingerprint pattern variability. The abstract is coherent and logically organized, aligning with scientific norms in forensic and biometric research.

#### Keywords and Abbreviations Review:

The keywords selected are highly relevant and reflect the core areas of focus in the study. The inclusion of an abbreviation list is thorough and demonstrates attention to clarity for a diverse readership. It enhances readability, especially for interdisciplinary audiences unfamiliar with forensic terminology. Both common abbreviations (e.g., DNA, ID) and more domain-specific ones (e.g., TFRC, WSS) are appropriately defined.

#### Introduction Review:

The introduction provides a solid foundation for the study by placing fingerprint analysis within the broader context of forensic science. It references foundational literature and explains the biological basis of fingerprints as friction ridge patterns. The etymology and definition of "dactyloscopy" offer useful background. The narrative then transitions smoothly into the process and significance of comparing fingerprint impressions. Citations from historical and modern sources lend credibility to the discussion. The tone remains academic and informative, with a clear focus on individual identification as a cornerstone of forensic practice.

# International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

*www.journalijar.com*

---

## REVIEWER'S REPORT

### Methodological Context (Inferred from Abstract and Introduction):

Although full methodological details are not presented in the excerpt, the study appears to use a sample size that balances breadth (four ethnic groups) and depth (25 individuals per group). The statistical significance mentioned (chi-square test at  $p < 0.05$ ) indicates a rigorous analytical approach. The use of rolled impressions adds methodological precision in biometric recording.

### General Observations:

The paper demonstrates a clear forensic application and contributes to biometric and anthropological research by exploring ethnically influenced fingerprint traits. The writing is formal, terminologically accurate, and consistent with scientific reporting standards. The structured approach—from general forensic relevance to specific ethnic variation—helps guide the reader through the rationale and significance of the research.

### Overall Assessment:

The article presents a focused and contextually grounded study, linking biometric identification to ethnographic diversity in a specific Indian region. The abstract, keywords, and introduction are well-aligned, clearly written, and informative. The research stands as a meaningful addition to both forensic science literature and anthropological fingerprint studies, with implications for law enforcement and population-specific biometric databases.