

REVIEWER'S REPORT

Manuscript No.: IJAR-55021

Title: Review on Prakriti-Based Personalized Medicine: Integrating Ayurveda and Genomics

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revisionx.....

Do not accept (*Reasons below*)

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

Reviewer Name: Dr. Mohammad Nadeem Khan

Detailed Reviewer's Report

The manuscript presents a narrative review discussing Prakriti-based personalized medicine within the Ayurvedic framework and its integration with modern genomics, transcriptomics, epigenetic mechanisms, and pharmacogenomics. The authors summarize how Prakriti types correspond to genomic signatures, disease susceptibility, therapeutic responses, and emerging multi-omics approaches. Overall, the manuscript aims to justify the relevance of Ayurgenomics in precision medicine.

Major Strengths of the Manuscript

- Comprehensive Scope:** The manuscript covers an extensive range of topics—genomics, transcriptomics, epigenetics, immunology, and pharmacogenomics—and integrates them with Prakriti concepts.
- Strong Literature Base:** The review includes a large number of relevant citations from both Ayurveda and modern biomedical research.
- Clear Structural Organization:** Sections are logically arranged—conceptual introduction, biological correlates, clinical applications, diagnostic tools.
- Relevance to Precision Medicine:** The topic is timely and aligns well with ongoing global efforts in personalized medicine.

Major Concerns Lack of Critical Evaluation:- The manuscript mainly compiles studies but does not critically evaluate methodological limitations, sample sizes, or reproducibility concerns in Ayurgenomics research. A review must highlight strengths *and* limitations.

- Inconsistencies and Errors in Text:** Several statements appear repetitive or contain unclear phrasing. For example, in the transcriptomic section, line 153 uses For this type of vinegar, the genes... — a typographical error likely intended to refer to Kapha type
- Tables and Figures Missing:** The manuscript refers to descriptive tables (e.g., Prakriti trait comparison on page 3) but lacks a

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properly formatted table, header, and numbering.

3. **Insufficient Discussion of Limitations:**

The review should address criticisms of Ayurgenomics, such as:

- Small cohort sizes
- Lack of standardized tools for Prakriti assessment
- Variability in questionnaire-based classifications

4. **Weak Conclusion:**

The conclusion is brief and does not summarize key findings or create a clear perspective on future directions.

Minor Concerns

1. Formatting inconsistencies in headings, line breaks, and paragraph spacing.
2. Typographical and grammatical errors throughout the document (characteristics, "overepigeneticaluations").
3. Acronyms such as SNPs, HLA, CYP should be expanded on first use for non-specialist readers.
4. Citations should be checked for uniformity—some lack issue numbers or page ranges.
5. Improve clarity in some sentences that are overly long or complex.

Comments

Page 1 – Abstract

- Abstract is well structured but includes a spelling error ("entified" instead of "identified").

Page 2 – Introduction

- Strong introduction; however, it lacks explicit mention of controversies or challenges in validating Prakriti.

Page 3 – Prakriti Types Table

- Table formatting is broken and misaligned. Proper headings and consistent formatting are needed.

Page 5–6 – Genetic Correlations

- Good content, but the narrative jumps quickly between topics. Use subheadings for HLA, CYP, FTO, etc.
- Some claims require stronger evidence or explicit referencing.

Page 7 – Pharmacogenomics Section

- Well written but requires more real-world clinical examples and limitations.

Page 8–9 – Clinical Applications

- Assertions regarding disease susceptibility (e.g., Pitta → autoimmune) need explicit references to studies—not general statements.

Page 10 – Diagnostic Tools

- AyuSoft™ and APP descriptions are good but should include limitations regarding validation and sample diversity.

Page 13 – References Section

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- Most references are relevant, but the style is inconsistent. Ensure uniform formatting per journal guidelines.

Recommendation

The manuscript is well-organized and highly relevant, but it requires substantial revision to correct textual errors, strengthen critical analysis, improve table/section formatting, and expand the discussion of limitations. With these improvements, the manuscript will be significantly strengthened and suitable for publication.