

REVIEWER'S REPORT

Manuscript No. IJAR-54390

Date: 17/10/2025

Title: Effect of Ethno Science-Based Instructional Model on Students' Academic Achievement in Biology

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: **Dr. Touseef Malik**

Date: 17/10/2025

Reviewer's Comment for Publication.

This empirical paper uses a quasi-experimental design to assess the impact of the Ethno Science-Based Instructional Model (ESBIM) on biology learning outcomes. It demonstrates strong methodology, valid instruments, and statistically significant results. Minor updates and theoretical contextualization are advised.

Recommendation: Accept after minor revision

Detailed Reviewer's Report

STRENGTHS

1. Robust design with ANCOVA and reliability coefficient ($KR-20 = 0.81$).
2. Clear improvement in experimental group achievement ($F(1,142)=23.87, p < .001$).
3. Gender-inclusive findings enhance educational equity relevance.
4. Integrates cultural knowledge with formal science instruction.
5. Contributes significantly to innovative science pedagogy.

WEAKNESSES

1. Theoretical linkage to constructivist frameworks needs elaboration.
2. Socio-demographic characteristics of sample not described.
3. Discussion could reference comparative ethno-science studies.
4. Tables to be reformatted as per APA 7 guidelines.
5. Add literature (2021–2024) on culturally responsive pedagogy.

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