

Peer Review

Review of: "Misestimation of Expected Genetic Differences: A Statistical Note on Some Recent Papers"

Hany Akeel Al-hussaniy¹

1. University of Baghdad, Iraq

The commentary presents a mathematically detailed and technically rigorous re-examination of statistical expectations regarding genetic drift and phenotypic divergence among human populations, offering a structured critique of previous interpretations of F_{ST} , Q_{ST} , and effect size metrics. The manuscript demonstrates strong analytical depth and contributes to methodological discussions by highlighting potential statistical misinterpretations, particularly concerning diploidy adjustments and the limitations of non-standard effect size measures. However, several interpretations extend into highly sensitive and controversial areas involving human population differences in complex behavioral traits, where conclusions require exceptional caution, broader interdisciplinary context, and stronger empirical validation. The manuscript would benefit from a more balanced discussion that clearly distinguishes statistical expectations from real-world biological, environmental, and sociocultural influences, as well as from acknowledging ethical considerations and limitations of applying theoretical population genetics models to complex human traits. Strengthening clarity in equation presentation and explicitly addressing counterarguments raised in prior literature would further enhance the scientific robustness and interpretative neutrality of the work.

Declarations

Potential competing interests: No potential competing interests to declare.