

Review of: "The Rural-Urban Divide: Insights from Immuno-Genetic Profiles and Implications for Health"

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Potential competing interests: No potential competing interests to declare.

The authors have examined the expression of cytokines and malaria susceptibility variants in rural and urban populations. In itself, the analysis could be interesting. However, this study has several important shortcomings.

- 1. There is no evidence that health disparities between rural and urban populations are due to genetic differences. In fact, this is highly unlikely due to the constant mixing of these two populations. Instead, the more obvious cause is environmental (diet, hygiene, access to healthcare, education, etc.).
- 2. Differences in gene expression between these two communities are also environmental. Without accounting for environmental factors, differences in gene expression cannot be attributed to "rural vs. urban."
- 3. Significant details of the methods are not described. Therefore, it is not possible to assess the validity of the analysis, particularly for the genotype analysis.

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