

## Review of: "The Intelligence of Nations. National IQs. Update 2023."

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Potential competing interests: No potential competing interests to declare.

The observation (by Lynn & Vanhanen, Rindermann & Becker) that GDP, PISA scores and national norms of IQ tests have high correlation is an interesting one and further research on this topic is welcome.

First of all, Tatu Vanhanen is really Tatu. He was professor in political science at Tampere University at the time I studied psychology there. I saw him drinking coffee at the University Café a couple of times. So, I'm sure about this detail!

I agree with the reviewers that suggest adding some headings. They don't need to be the usual intro, methods, etc. But simply to improve readability, dividing into sections might be worthwhile.

I have little to add to the more detailed comments by Drs. Rindermann and Becker.

Here is my main suggestion for improving this paper. Correlation does not imply causation. It may be that GDP affects education (PISA) that affects national IQ. Or, education affects IQ that affects GDP. Or, IQ affects education that affects GDP. The author should discuss the other alternative interpretations of the data, as suggested also by Dr. Daniele.

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