

Review of: "What are we like, is it a matter of genetic inheritance or not?"

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Potential competing interests: No potential competing interests to declare.

The topic undertaken in the paper is interdisciplinary in nature and, hence, of interest to researchers with both a psychological and biological orientation. For this reason, it is unquestionably worth undertaking and discussing in detail.

Independently, I have a few comments about the paper itself:

- The Introduction section lacks a full explanation of what personality is, i.e., how it is defined by different scholars and from different perspectives. In its present form, the reference to personality is quite poor and insufficient for the construct, which is, in fact, the essence of the paper.
- Basically, the Introduction section is, in my opinion, too general for the presentation of the issues covered in the paper. For example, as the Author states, "His study provides the first evidence of associations between placental DNA methylation and the baby's behavioral and emotional difficulties" - it would be useful to expand on this idea and be more specific about the type of behavioural and emotional problems needed to cope with.
- The structure of the Introduction section also raises some concerns for me: the main aim of the paper should be clearly outlined, while the end of this section should end with some summary and generalisation of the conclusions of the research presented above.
- There is an incomplete sentence in the Abstract as well as in the Introduction section, i.e., "Scientific literature now largely agrees that adversity in the early years of life has broad long-term consequences on the neuroendocrine, immune, and metabolic systems (Kim et al., 2019), as well as on neuroplasticity and neuronal morphology that alter the overall evolution of (van Bodegom, et al., 2017; Edwards et al., 2010)".
- In point 5, the use of the term "Maternal Childhood Maltreatment" in relation to mothers of preterm infants is not understandable and would need to be developed, clarified, and the results of research presented to support the thesis. From a technical perspective, at this point, the beginning of the inverted commas appears, but the end is missing.
- There are some thoughts in the text that are only hinted at, while they would require elaboration, e.g., "It is therefore almost universally shared by researchers that the developing fetus is influenced by multiple aspects of the environment in which the mother lives, what she is exposed to, and her mental health (Thornburg et al. 2020; O'Connor et al. 2022)" - What aspects of the mother's mental health affect the foetus, and in what way?
- The proposed title of the Discussion section is not clear and does not explain which factors are being correlated.
- The Conclusions section is very poor and does not really summarise the results presented in the paper. In addition, the first two sentences seem to contradict each other, since on the one hand the Author states, "From this systematic

review emerges a solid basis, in scientific literature, on which to base the hypothesis of correlations between...", while on the other hand the Author adds, "Despite this, there is an almost total absence of studies on this specific topic...".

- "Conflicts of interest" statement is duplicated and should not be included in the Conclusions section.
- After reading the whole text, I was unable to find a clear explanation of how environmental factors related to the mother affect personality traits in the child. In fact, the paper does not present a systematic review of the literature on the topic undertaken.
- All in all, the whole text requires in-depth content rearrangement and language correction.

I hope the above-mentioned comments will help to improve the paper, the subject of which is undoubtedly valid.

Best regards,

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