

Review of: "Gut Microbiome, Bone Health, and Air Pressure: Construing the Axis for the Proposed Triad"

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Potential competing interests: No potential competing interests to declare.

In the study:

- The relationship between gut microbiota and bone health is mentioned. Focusing on the results of microbiota changes without discussing the factors that lead to dysbiosis and grouping the data in the mentioned references only based on results without examining them greatly restricts the informative feature of the text.
- There is a need to provide detailed information on the analysis of osteoporosis and related pathways. In the complex cell cycle, one should never focus on a single signaling pathway, and presenting data in a cause-effect relationship by focusing on the factors responsible for the activation of this pathway (pathogen-derived, endocrine system, etc.) will make the content of the article more meaningful.
- The part of the article where the effect of low-density air pressure on high-density bone structures is explained through HIF is quite insufficient. This mechanism needs to be supported with data and graphics, and the hypothesis-result relationship needs to be established on a more accurate basis.