

Review of: "Positive Selection and Adaptation Role of Gut Microbiota in the Evolution of Adaptive Immunity of Mammalian Species"

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Potential competing interests: No potential competing interests to declare.

Author attempted to identify genetic positive selection in the GBP5, GZMB, IFNG, IRF7, KLRD1, RTP4, TNFSF4, and TRAT1 genes. The author investigated how the host's immune system influences the molecular evolution and adaptation of gut microbiota across various mammalian species. Authors conducted multiple analyses (refer to Tables 1-2 and Figures 1-9). However, the intended emphasis of these analyses was unclear. In addition, the figures presented were confusing and difficult to interpret. It is essential to provide clear explanations for the key points of each table and figure. As a result, the manuscript's scientific novelty is currently uncertain and requires significant revisions.

GBP5, GZMB, IFNG, IRF7, KLRD1, RTP4, TNFSF4, and TRAT1 are abbreviations. Please describe the full gene names. The reviewer expresses confusion regarding the relevance of these genes in mammalian species to gut microbiota. Further clarification on this connection is necessary.