The review entitled "Bidirectional interaction between tetracyclines and gut microbiome" seems well written and very interesting. It addresses a very relevant topic in the field of antibiotic therapies. However, here are some suggestions:

- The introduction is very dispersive. It is advisable to make it more fluid by highlighting the aim of the manuscript (the importance of investigating the bidirectional relationship between tetracyclines and the intestinal microbiome).

- It is advisable to add a paragraph relating to literature studies conducted in order to develop strategies to minimize the negative effects of tetracyclines on the intestinal microbiome.

- It is advisable to check the references and always use the same format. For example, in reference 68 the DOI is missing.

- A review of the English language by a native speaker is recommended.