

Reviewer #1:

Dear reviewer,

Thank you for your great evaluation and valuable comments on our manuscript. The suggestions you provided were crucial for improving the quality of our paper. Aiming to fulfill your suggestions, below are the point-to-point changes were performed:

1. We performed a thorough review and excluded redundant excerpts in order to avoid repetitions, as you suggested. (Highlighted in **yellow** in the manuscript)
2. We added an explanation about the plasticity of Th17 cells and their transdifferentiation into regulatory cells. Furthermore, we elaborated a graphical representation of these processes as you requested. In addition, we have reorganized this topic in the paper in order to make the information more organized. Finally, we added information on how the Th17/Treg axis could be modulated as a potential therapeutic approach against cancers. (Highlighted in **blue** in the manuscript)
3. We have rewritten the text in order to explain the association of IL17+ Foxp3+ T cells with the formation of cancerous stem cells. (Highlighted in **pink** in the manuscript)
4. We have added other studies on the role of the Th17/Treg axis in ovarian cancer. In addition, we expanded the study about the Th17/Treg axis in other types of cancer discussed in the manuscript. (Highlighted in **green** in the manuscript)
5. We added a subtopic addressing bone-related cancers and a study on vitamin D3 and its relationship to Th17 cells in bone diseases. We have made a link between vitamin D3, Th17 cells, and bone diseases and how it could be used in a therapeutic approach in bone cancer. (Highlighted in **gray** in the manuscript)

6. As requested, we added future perspectives and areas that need more focus in future research in the conclusion of the manuscript. (Highlighted in red in manuscript)

#### Secondary comments

1. We standardized some terms used in the manuscript for a better understanding of the reader, as you suggested. (Highlighted in purple in the manuscript file)

2. We fixed the flagged language errors and the manuscript underwent a thorough language revision by a native English speaker. The language changes as well as rephrasing of multiple sentences was extremely important to improve the quality of the article. (Highlighted in orange in manuscript file)

Reviewer #2:

Dear reviewer,

The comments you made on our manuscript were very important for improving its quality and we are grateful for your crucial help. Here are the point-to-point changes according your suggestions:

1. The manuscript underwent a thorough language revision by an English speaker. The language changes as well as rephrasing of multiple sentences was extremely important to improve the quality of the article. (Highlighted in orange in text)

2. We have added a figure to the text that exemplifies the immunological mechanisms used by Th17 cells to act on different types of cancers (Figure 1).