

Peer Review

Review of: "Dr Jekyll and Mr Hyde: From Two Branches of Immune Response to Three Types of Interferon Response"

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This article is detailing every aspect of IFN cytokines acting as a key factor involving in achieving the required effects during delivering the immune/ or pathological response. This is an extensive work would take a form of book chapter later on. Some of the important recommendations are:

- The title of the manuscript can be changed, for example: "Recent advancements in IFN regulations/ dysregulations implicating the immune response in cancer and infectious diseases."
- Some of the text can be adjusted in figures' legends, making tables to fix this lengthy text.
- Common grammatical errors must be fixed.
- Abstract should be precisely written.
- In this study interferons (byproduct of many immune pathways) are only considered as the main tool to determine the regulatory activities.
- Try to avoid 'hype'.
- Extensive explanations on types of interferon must be presented in tables, so, people can grasp the content easily. At this stage it is bit mixed.
- Figure 4: canonical and non -canonical depicted on the figure is not giving any concrete information. Therefore, the involvement IFN and other cytokines with different cellular pathways may have canonical and non -canonical pathways involvement. Explain the same in figure legend.
- All the figure legends need more explanations, that can be removed from the larger text in the manuscript.
- Figure 6: The genomic structure of SARSCoV-2 may not be needed in this manuscript, that can be used for the another manuscript. It can drift people's interest. Some molecular activity context e.g.,

ORFs, structural and non-structural proteins in the respiratory viruses including SARSCoV-2.

Similarly, figure 7 & Table 1 are not required. Try to condense this part as much as you can.

- Repetition of the similar sentences are not needed.

I hope it'll work to give a shape to your article. Overall, this manuscript is a remarkable collection of the information help researchers to understand the various aspects of immunological reactions.

Declarations

Potential competing interests: No potential competing interests to declare.