

Review of: "The α7 Nicotinic Acetylcholine Receptor: a Key Molecule in Post-COVID Syndrome?"

Dr Arti Kataria¹

1 National Institutes of Health

Potential competing interests: No potential competing interests to declare.

The manuscript by Maryna Skok explores the role of alpha7 NAR as a critical factor in inducing post-Covid syndrome. The author has comprehensively compiled information from recent and past publications that indicate the pathological roles of alpha7 NAR. However, I have following comments that might help in improving the quality of the manuscript:

- 1. The authors have described post-COVID syndrome very briefly. More information on reported pathological implications should be included.
- 2. In the introduction, please discuss Long Covid symptoms especially neurological, respiratory, cardiological and other symptoms and their implications to overall human health.
- 3. A number of reports have indicated potentiation and inhibition of alpha7 NAR by SARS-CoV-2 ectodomain. Please add this information.
- 4. A table of known α 7 NAR ligands and repurposed drugs against it should be included.

Minor comments:

1. The manuscript will benefit from English language editing. There are several places in the paper where article 'We' is mentioned which is inappropriate. Please rectify.

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