

Review of: "The $\alpha 7$ Nicotinic Acetylcholine Receptor: a Key Molecule in Post-COVID Syndrome?"

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This review discussed the important role of $\alpha 7$ nAChRs in the pathogenesis of COVID-19, which is an attractive topic, as PASC symptoms are important sequelae of COVID-19 and the relevant $\alpha 7$ nAChRs studies are still lacking. The authors did a review and found anti-idiotypic origin of $\alpha 7$ specific antibodies could stimulate PASC symptoms and cure or prevent the development of PASC therapeutics. However, there are some concerns about this paper.

Major issues:

- 1.The article mentions that cholinergic dysfunction of COVID-19 is discussed, but does not specify what disease it is?
- 2.Most of the review are only descriptive and do not attempt to suggest a deeper causal relationship.