

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

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Potential competing interests: No potential competing interests to declare.

This is an interesting review article proposing a novel paradigm involving $\alpha 7$ nAChRs in the pathogenesis of PASC. The evidence demonstrating the potential contribution of auto-anti-idiotypic $\alpha 7$ nAChRs antibodies and the proposed solutions are compelling. A minor concern that authors need to address is to add a citation to the following statement "We found both SARS(674-685)-specific and $\alpha 7$ (179-190)-specific antibodies in the blood of people who experienced COVID-19 two to six months ago; many of them complained for the cognitive impairment including memory loss." If the data hasn't been published yet, please indicate submitted, including the journal name, for all other instances in which the authors cite a paper in submission. Authors might also want to consider discussing the literature on $\alpha 7$ nAChRs on lung and heart fibrosis.