

# Review of: "Effects of the SARS-CoV-2 Spike protein on in vitro aggregation of alpha synuclein- probable molecular interactions and clinical implications"

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Potential competing interests: No potential competing interests to declare.

This is an interesting review on impact and role of SARS-CoV-2 spike protein on neurodegenerative diseases. For the improvement of this manuscript, I have some following suggestions:

1. The first sentence of abstract and introduction should not be exactly same. This sentence should be scientifically more vivid. Does it refer to the impact/role of spike protein of SARS-CoV-2 on neurodegenerative diseases including Parkinsonism, Alzheimer's disease and Creutzfeldt Jakob disease.
2. Several sentences should be reframed to make clear understanding.
3. 'Thioflavin T assay'. Keep uniform in whole text.
4. In your results, mention the amino acids of S1 interacting with  $\alpha$ -synuclein.
5. Have you done any simulation study. If so give results.
6. An English language edit is essential.