

Review of: "[Commentary] The new nucleic acid based COVID-19 vaccines: a glittering achievement, yet disturbed by a black stain that does need to be identified and swept away"

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Potential competing interests: No potential competing interests to declare.

Few comments:

1-The title looks quite out of place. The authors need to provide more evidence on spike proteins driven out of these nucleic acid-based vaccines proving deleterious and causing multiorgan damage including hypercoagulable state and tissue hypoxia as caused by the spike protein (behaving like a prion) of wild SARS-CoV-2 virus.

2-If the authors are indeed worried about the spikes of nucleic acid-based vaccines responsible for 'prion-like' damage to the human body, even protein-based Covid-19 vaccines like Novavax are directly injecting spikes or instructions to form spikes in vivo.

3-The authors need to provide some evidence by citing more reliable references on free spikes responsible for organ damage. One good source could be the following article where the researchers identified a few prion-like domains in the RBD of spike proteins of different VOCs of SARS-CoV-2: *Microorganisms*. 2022 Jan 25;10(2):280. doi: 10.3390/microorganisms10020280.

4-The authors seem to suggest exploiting some non-specific effects of certain vaccines mediated by IFNs in the end. Several studies focused on trained immunity like immunological impact on Covid have failed to show any benefits in many studies.

5-The peptide-based T cell vaccines may be a doable option. One such recent report may be worth considering: https://www.frontiersin.org/articles/10.3389/fimmu.2023.1111629/full?utm_source=S-TWT&utm_medium=SNET&utm_campaign=ECO_FIMMU_XXXXXXXXX_auto-dlvrit

6-I am not aware of the journal's policy for publication, but the colloquial style of writing is not encouraged in many serious publications.