

Review of: "Potential cross-protection against SARS-CoV-2 from previous exposure to bovine coronavirus"

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This paper tries to address the potential cross-protection against SARS-CoV-2 from previous exposure to bovine coronavirus. The topic is interesting enough to be tackled by authors.

They carried out basically an *in silico* study to find out common epitopes between bovine coronavirus and SARS-CoV-2 and they hypothesize that persons in contact with bovines should have less clinical impact after a SARS-CoV-2 infection. The data provided are totally speculative without any sound data to support any potential cross-protection.

It should be carried out the following experiments to go on with this research paper:

- 1.- To study the humoral and cellular immunity for SARS-CoV-2 in humans without previous SARS-CoV-2 infection but with contact with bovines as experimental group.
- 2.- To study the humoral and cellular immunity in humans for SARS-CoV-2 without previous SARS-CoV-2 infection and without contact with bovines as negative control.
- 3.- To study the humoral and cellular immunity in humans for SARS-CoV-2 with previous SARS-CoV-2 infection and without contact with bovines as positive control group.

In conclusion, it is necessary to carry out plenty of work to go on with this research work. Anyway, I believe that it is necessary more studies in this line but with a sound scientific design.