

# Review of: "Intramuscular mRNA BNT162b2 vaccine against SARS-CoV-2 induces robust neutralizing salivary IgA"

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**Potential competing interests:** The author(s) declared that no potential competing interests exist.

**The manuscript focused on the specific mucosal IgA response in serum and saliva post vaccination of an SARS-CoV-2 mRNA vaccine. In my opinion, the mucosal immune response is valuable to prevent or disturb viral spreading. Efficient evaluation of specific IgA response should be involved as a part of vaccine efficacy. The manuscript is a topic of interest to the researchers in the related areas. However, there are also some descriptive accuracies as well as spelling mistakes, which needs to be revised. The specific recommendations are as follows:**

1. Please explain the possible immunological mechanisms of intramuscular vaccination could induce mucosal immune response. And is this an example or a common phenomenon to the other vaccines that can induce the same response by i.m. injection?
2. Which SARS-CoV-2 strains was used to test neutralizing antibodies? How about the Delta or Omicron strains of SARS-CoV-2?
3. Some spelling mistakes need to be revised, such as "vaccinees" should be "vaccines", "Spike" should be "spike", and so on. Check the text carefully.
4. Actually, the author should provide a "Certificate of Ethics Review".
5. Why the quantitative analysis is not performed uniformly since the linear relationship between the established and commercialized ELISA methods has been demonstrated.
6. The unit of the vertical coordinates in the graph needs to be unified. For example, some are OD value, some are mmol/mL. I recommend to use mmol/L or ng/ul as a standard unit.