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The Netherlands

## **Antibody glycomics signatures of SARS-CoV-2 infection and vaccination**

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### **Citation**

Pongrácz, T. (2022, September 7). *Antibody glycomics signatures of SARS-CoV-2 infection and vaccination*. Retrieved from <https://hdl.handle.net/1887/3455304>

Version: Publisher's Version

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## Stellingen behorend bij het proefschrift getiteld

### **ANTIBODY GLYCOMICS SIGNATURES OF SARS-CoV-2 INFECTION AND VACCINATION**

1. Lack of a single sugar on antibodies may make you severely ill (this thesis).
2. Glycosylation of spike-protein specific antibodies is highly dynamic, but is a promising disease severity marker if confounders of glycosylation are sensibly accounted for (this thesis).
3. Spike-protein specific antibody glycosylation could be a valuable addition to clinical severity score calculations (this thesis).
4. Mass spectrometry is a powerful tool to study IgG glycosylation, and when changes in glycosylation of circulatory IgG fit with glycosyltransferase expression in antigen-specific B cells, a snapshot of the regulation of glycosylation is obtained (this thesis).
5. Spike-protein specific IgG glycosylation in plasma not necessarily reflects its lung-residing counterpart.
6. Glycosylation is part of a tightly intertwined system. Hence, multi-omics approaches are indispensable to understand differential glycosylation and its influence on the function of antibodies and beyond.
7. If you are serious about science, you are serious about visualizations. Bad tables and visualizations need ample time to grasp; nobody has time.
8. If you want to go fast, go alone; if you want to go far, go together (African proverb). Going together in science results in a collaborative space where the pooled investment of each team does not add up but multiply.
9. Many things in research are a tradeoff and when we try to make everything a priority, nothing gets our full attention.
10. Some impactful choices during a PhD track are things students only recognize in hindsight.
11. Patent law is not forgiving.
12. Thoughts from a mind during a lockdown are best described as: “I like the people I work with. Someday I’ll meet them in person.”.