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## Primary T-cell responses against SARS-CoV-2 in patients with hematological disorders

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### Citation

Pothast, C. R. (2026, February 12). *Primary T-cell responses against SARS-CoV-2 in patients with hematological disorders*. Retrieved from <https://hdl.handle.net/1887/4290106>

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## **Primary T-cell responses against SARS-CoV-2 in patients with hematological disorders**

1. *In vitro*-detected cross-reactive T cells can be originally primed by dissimilar viruses. – *This thesis*
2. A predicted absence or reduction of the immune response in patients with hematological disorders should be a reason to vaccinate, not to withhold vaccination. – *This thesis*
3. Antibody titer measurements are valuable for large-scale studies in healthy individuals but are insufficient for evaluating immune responses in immunocompromised patients. – *This thesis*
4. mRNA-based vaccine platforms provide a highly effective means of inducing immune responses, especially for immunocompromised individuals.  
– *This thesis*
5. Artificial intelligence could become a valuable tool for predicting T-cell cross-reactivity, as it can account for molecular mimicry—something that purely sequence-based peptide homology analyses cannot. – *Hudson, D. et al., Nature Reviews Immunology (2023)*
6. Characterization of immune cells based on a single marker or rigid categories ignores the complexity of the immune system and can result in misinterpretation of the data.
7. The innate immune system is as vital as the adaptive immune system for effective vaccine responses, yet it has been overlooked in understanding vaccine effectiveness. – *Verbeke, R. et al., Immunity (2022)*
8. For the interpretation of immunological assays, it is important to consider that if research relies on blood samples, the pivotal role of the immune system in tissues is underestimated. – *Farber, D.L. Nature (2021)*
9. The gap between science and society will persist unless we learn to communicate more effectively and search for connections.
10. Who I am as a scientist is defined by my limitations. – *Adapted quote by John Mayer (2010)*
11. Passion should be protected, not exhausted. – *oftewel, “het moet wel leuk blijven”*