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## Synthesis, structure and epitope mapping of well-defined *Staphylococcus aureus* capsular polysaccharides

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### Citation

Østerlid, K. E. (2025, May 22). *Synthesis, structure and epitope mapping of well-defined Staphylococcus aureus capsular polysaccharides*. Retrieved from <https://hdl.handle.net/1887/4246935>

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# Propositions

Accompanying the thesis

## **Synthesis, structure and epitope mapping of well-defined *Staphylococcus aureus* capsular polysaccharides**

1. When synthesizing long oligosaccharides, it is easier to perform as few modifications as possible on the larger molecules. (*This Thesis*)
2. The subtle change of one protecting group can make or break a complex oligosaccharide synthesis campaign. (*This Thesis*)
3. Synthetic material can be used to study structure-activity relationships for an antigen and antibody to obtain a better understanding how to combat infectious diseases. (*This Thesis*)
4. The trichloroacetamide is a sub-optimal protecting group. (*Chapter 3 and 4*)
5. For the biological activity of capsular polysaccharides, longer is not always better. (*This thesis, R. Adamo, Bioorganic Med. Chem, 2012, 20, 6403*)
6. The use of the abbreviation CP for both conjugated polymer and capsular polysaccharide causes confusion when dealing with glycoconjugate vaccines. (*Inganäs, Macromol. Rapid Commun. 2007, 28, 1703–1713; J. Gooding, ACS Sens. 2016, 1, 1084*)
7. The font of writing chemical formulas can affect the clarity and accuracy of the communication. (*A. Blackman, Nat. Chem., 2024, 16, 1919*).
8. While it is worthwhile to be trained as a multidisciplinary chemist, in depth knowledge of the individual disciplines should be valued.
9. Saving on education is like peeing in your pants: it may work in the short term, but creates problems in the long term.
10. Long working hours do not equal effective work or increase results.

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Leiden, 22 mei 2025