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Exploring the glucosylation potential of glucansucrases

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Propositions associated with the PhD thesis

**Exploring the glucosylation potential of glucansucrases:
From enzyme to product**

By Tim Devlamynck

1. Suppressing the α -glucan synthesis of Gtf180- Δ N is a valid method to increase the yield of the desired acceptor reaction, but is not sufficient yet to obtain industrially relevant yields for all alternative acceptor substrates (Chapter 2).
2. Gtf180- Δ N is an excellent biocatalyst for the synthesis of high-intensity, *Stevia*-based sweeteners, due to its high activity and adequate reaction- and product specificity (Chapters 4 and 5).
3. Reaction -and enzyme engineering form an essential combination to obtain an efficient, high-yielding biocatalytic process (Chapter 4).
4. The broad acceptor substrate specificity of Gtf180- Δ N is at the same time an opportunity and a burden.
5. Developing a process at lab-scale is only the start, demonstrating the technology at pilot scale is an often underestimated necessity.
6. Performing a sandwich PhD at 2 different universities should be the standard, not the exception.
7. A Fleming talking Flemish has less chance to be understood in Groningen then when talking English (personal experience).