Identification and characterization of glycoside hydrolase family 32 enzymes from Aspergillus niger

Goosen, Coenie

Stellingen behorende bij het proefschrift:

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1. Fructan modifying enzymes from *Aspergillus niger*, belonging to the glycoside hydrolase family 32 (GH32) of enzymes, are primarily induced by sucrose or a sucrose-derivative, but not fructose (this thesis).
2. Although a number of putative intracellular carbohydrate modifying enzymes have been identified in fungal genomes (e.g. SucB, SucC, this thesis), little is currently known regarding their *in vivo* functions (Yuan *et al*., 2006, Goosen *et al*., 2007; Pel *et al*., 2007; this thesis).
3. The CWI has perfected the age old methodology of circular reasoning when it comes to a foreigner applying for unemployment compensation (The state vs. Goosen, 2007).
4. The putative fructan-binding G domain (SVEVF) of GH32 plays an important role in overall catalytic efficacy of the *A. niger* exo-inulinase (AngInuE), and thus is important for the efficacy of fructan polymer hydrolysis (this thesis).
5. Coming from a country with more than 260 days of sunshine a year, I find the term “zonvakantie” quite comical.
6. Researchers focusing on GH32 enzymes should reach consensus regarding enzyme nomenclature (β-fructofuranosidase, invertase, transfructosylation, transglycosylation, fructosyltransferase, fructanotransferase) and methods applied to determine true enzymatic activity.
7. An effort to identify the anatomical origin of Dutch beef in supermarkets is futile (frustrated personal experience).
8. “Grondboontjie”-or “katjiebottersous” (pindasaus – hot peanutbutter sauce), should be a common term when you order fries in South Africa .
9. Science without religion is lame, religion without science is blind (Albert Einstein)