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Rapid and sensitive methods for the analysis and identification of O-glycans from glycoproteins

Kozak, R.P.

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Stellingen behorende bij het proefschrift.

1. Peeling is a general problem found with chemical release methods for O-glycans and results in poor repeatability and stoichiometry for analytical glycan profiles (this thesis).
2. One may expect that salivary O-glycosylation depends on diet, lifestyle and inflammatory responses in the mucus layer, although additional studies will be necessary to study this (this thesis).
3. The procainamide labelled glycans are suitable for both (U)HPLC-FLR analysis, providing good chromatographic separation for relative quantitation, and ESI-MS analysis, providing more efficient ionization for glycan identification (this thesis).
4. To be successful, QbD of drug glycosylation requires use of a range of orthogonal methods for glycosylation structure analysis (this thesis).
5. Glycomic analyses seek to understand how a collection of glycans relates to a particular biological event.
6. Glycosylation should not be seen merely as a source of headaches for biomanufacturers.
7. Several different analytical techniques are required to characterize fully complex glycan structures.
8. ESI produces inherently better resolved peaks for glycoconjugates due to the absence of matrix adduct peaks.
9. Dream as if you'll live forever. Live as if you'll die today (James Dean, 1955).

10. Try not to become a man of success, but rather try to become a man of value
(Albert Einstein, 'Life', 1955).
11. Great things in business are never done by one person. They're done by a
team of people (Steve Jobs, '60 Minutes', 2003).
12. Freedom consists not in doing what we like, but in having the right to do what
we ought (Pope John Paul II, Homily of John Paul II, 1995).