The handle [http://hdl.handle.net/1887/45594](http://hdl.handle.net/1887/45594) holds various files of this Leiden University dissertation.

**Author:** Holst, Stephanie  
**Title:** Glycomic signatures of colorectal cancer  
**Issue Date:** 2017-01-24
Stellingen behorende bij het proefschrift ‘Glycomic Signatures of Colorectal Cancer’

1) Glycan alterations associated with colorectal cancer often show an opposite trend as compared to other cancers and are not consistent between different glycan classes (this thesis).

2) Improvements in glycan fragmentation analysis are essential to obtain better structural information and advance our understanding of (glyco)biological mechanism (this thesis).

3) Characterization of model systems is essential in order to interpret results correctly (this thesis).

4) CDX1 seems involved in glycosylation changes through regulating the expression of glycosyltransferases as well preventing epithelial-to-mesenchymal transition (EMT). Combining both, one may speculate the glycosylation phenotype and associated interactions as being an important factor averting EMT (this thesis).

5) Mass spectrometry imaging is a great ‘untargeted’ complementary tool to immunohistochemistry to unravel tumor heterogeneity (this thesis).

6) Images are more convincing than words and prettier than numbers, therefore mass spectrometry imaging results are the perfect tool to reach out to non-experts in the field.

7) Combining multiple ‘-omics’ will increase our knowledge of biological processes such as cancer and disease. Each discipline contributes ‘just’ one part to a bigger picture.

8) Many studies try to find THE biomarker, while a PANEL of biomarkers may be the answer.

9) Producing data is one thing – analyzing and interpreting them remains the challenge.

10) Good tools are only useful when combined with high-quality samples and the right set of questions.

11) The biggest challenge for the future of biomedical research is to translate discoveries into clinical solutions.

12) Discovery consists of seeing what everybody has seen and thinking what nobody has thought. (Albert Szent-Gyorgyi, in Irving Good, The Scientist Speculates, 1962)

13) Life is what happens to us while you’re busy making other plans. (Allen Saunders, Reader’s Digest magazine, 1957)

14) Be yourself; everyone else is already taken. (unattributed)