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Glycomic markers of inflammatory bowel disease and IgA nephropathy

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Stellingen behorende bij het proefschrift getiteld Glycomic Markers of Inflammatory Bowel Disease and IgA Nephropathy

1. *Glycan biomarkers have the potential to replace invasive procedures like colonoscopy (this thesis).*
2. *Plasma glycomics and antibody glycomics are complementary, equally valuable approaches for disease biomarker discovery (this thesis).*
3. *Mass spectrometry glycomics would replace lectin-based assays, if it was not that complex (this thesis).*
4. *Glycomics should be integrated into routine medical practice (this thesis).*
5. *Recent advancements in high-throughput glycomics technology are key in enabling large-scale studies, but likewise add value for the execution of small-scale, targeted glycomic studies.*
6. *While the coverage of IBD and IgAN in this thesis may seem like a coincidence, these diseases appear to be associated as they share alterations in the gut microbiome as well as inflammatory mediators and immune complexes.*
7. *Artificial intelligence has great potential for detecting glycosylation defects through its data processing capabilities, pattern recognition, and adaptive learning. It will take a role in complementing the human mind rather than completely surpassing it.*
8. *While internal standards have great benefits for achieving robust mass spectrometry glycomic methods, total area normalization as performed in this study provides an attractive alternative.*
9. *Most of the problems are solved at the coffee machine anyway.*
10. *Research is a never-ending process. Every finding leads to new questions.*
11. *Doing a PhD is like climbing a mountain, except the mountain keeps getting higher as you climb.*
12. *Randomness is not random at all.*