Beyond genome wide association studies in celiac disease by exploring the non-coding genome

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Stellingen
behorende bij het proefschrift:
"Beyond genome-wide association studies in celiac disease by exploring the non-coding genome"

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1. Although many closely correlated single nucleotide polymorphisms (SNPs) resulting in linkage disequilibrium aid tremendously in the detection of disease association, they seriously hamper pinpointing the casual disease SNP or SNPs. (*this thesis*)

2. Even if a SNP maps within a gene, that gene is not necessarily the disease-causing gene. (*this thesis & Smemo et al., Nature. 2014; 507(7492):371-5*)

3. The explosion of publicly available, annotated genomic data enables the design of integrative approaches to efficiently prioritize causal SNPs and genes. (*this thesis & ENCODE Project Consortium, Nature. 2012; 489(7414): 57-74*)

4. Only 5% of the celiac disease-associated SNPs are located in coding sequences, strongly suggesting that many of the celiac disease-associated variants affect gene regulation. (*this thesis*)

5. Circulating micro RNAs can be potential biomarkers for early celiac disease detection, for monitoring disease progression, and for monitoring the effectiveness of and adherence to dietary intervention in celiac disease. (*this thesis*)

6. Disease-associated SNPs can affect the binding capacity of micro RNAs. (*Sethupathy P. & Collins F.S., Trends Genet. 2008; 24:489-97*)

7. "It is increasingly apparent that the functional properties of a genetic polymorphism (usually a SNP) depend upon the cell type analysed." *Benjamin Fairfax*

8. "The most surprising discovery about the human genome was that the majority of the functional sequence does not encode proteins." *Eric S. Lander*

9. "Learning never exhausts the mind." *Leonardo da Vinci*

10. "The secret of getting ahead is getting started." *Mark Twain*

11. "If it looks like a duck, and quacks like a duck, we have at least to consider the possibility that we have a small aquatic bird of the family Anatidae on our hands." *Douglas Adams*

12. "I am so clever that sometimes I don't understand a single word of what I am saying." *Oscar Wilde*