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The gut microbiota and inflammatory bowel disease

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Propositions thesis

1. The gut microbiota signature of inflammatory bowel disease consists of a decreased microbial richness, an increase of facultative anaerobes and a pro-inflammatory metabolic potential (*This thesis*)
2. The consideration of microbial interactions and co-abundances are important in prioritizing microbes in the context of inflammatory bowel disease such as *Escherichia coli* (*This thesis*)
3. Bacteria that are enriched in the small intestine are also more abundant in inflammatory bowel disease compared to the general population, suggesting their role in the pathogenesis of inflammatory bowel disease (*This thesis*)
4. The missense variant within the gene *SLC39A8* is associated with Crohn's disease susceptibility but its' influence on the gut microbiota composition is limited (*This thesis*)
5. The use of genetic information is valuable for identifying drug targets and for potential repurposing of drugs for inflammatory bowel disease (*This thesis*)
6. Commonly used drugs show an influence on the gut microbiota composition, with antibiotics, laxatives and proton pump inhibitors displaying the largest effects (*This thesis*)
7. An increase of microbial richness is a potential biomarker for defining response to vedolizumab treatment in patients with inflammatory bowel disease (*This thesis*)
8. The gut microbiota has a great potential for clinical application in inflammatory bowel disease as a diagnostic tool, predicting treatment response and for use in the management of inflammatory bowel disease
9. Both developing golden standards and replication of current findings in gut microbiota research are urgently needed before moving to the design of microbiota targeted therapies

Other propositions

The way to get started is to quit talking and begin doing (*Walt Disney*)

Not everything that can be counted counts, and not everything that counts can be counted (*Albert Einstein*)

It always seems impossible until it is done (*Nelson Mandela*)

Kon minder (*Gerrie & Francisca Collij*)