

# 16S rRNA gene profiling: Direct and indirect applications for clinical microbiology

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#### Stellingen behorend bij het proefschrift

## 16S rRNA GENE PROFILING

### Direct and indirect applications for clinical microbiology

- 16S rRNA gene profiling can be used to identify potential pathogenic genera in sputum, but only when combined with species-specific qPCR to achieve the needed resolution. (*This thesis*)
- For evaluation of methods for the diagnosis of bacterial vaginosis is 16S rRNA gene profiling a good alternative to replace the current golden standard, the Nugent score. (*This thesis*)
- 16S rRNA gene profiling has potential to be applied for studying the impact of treatment on polymicrobial communities.
  (This thesis)
- Microbiota research is hot, but fundamental research should be encouraged for safely and widely application of microbiota findings into the clinic. (*This thesis*)
- The microbiome field is slowly but surely approaching the clinic. (J. Raes, Gut 2016)
- Microbiota-based diagnostics rather than providing information on a single pathogen may direct the use of antibiotics.
  - (D. Bogaert, European Journal of Clinical Microbiology & Infectious Diseases 2018)
- Understanding microbiome variability holds potential to promote personalized preventive and therapeutic approaches.
  (E. Elinav, *Nature* 2018)
- The respiratory symptoms of COVID-19, the gastrointestinal tropism of SARS-CoV-2, and an altered gut microbiota in some cases make it worthwhile to consider the gastrointestinal tract as a potential target in disease management.
  (A. Padros, Gut Microbiota for Health, 2020)
- The shortage of security measures at the beginning of the pandemic allowed SARS-CoV-2 to strike among staff and residents of many care homes for elderly in the Netherlands.
- There's no way to be a perfect mother and a million ways to be a good and happy one. (naar Jill Churchill, 2003)