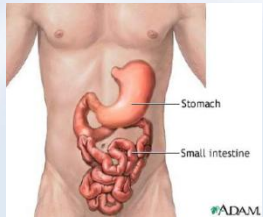


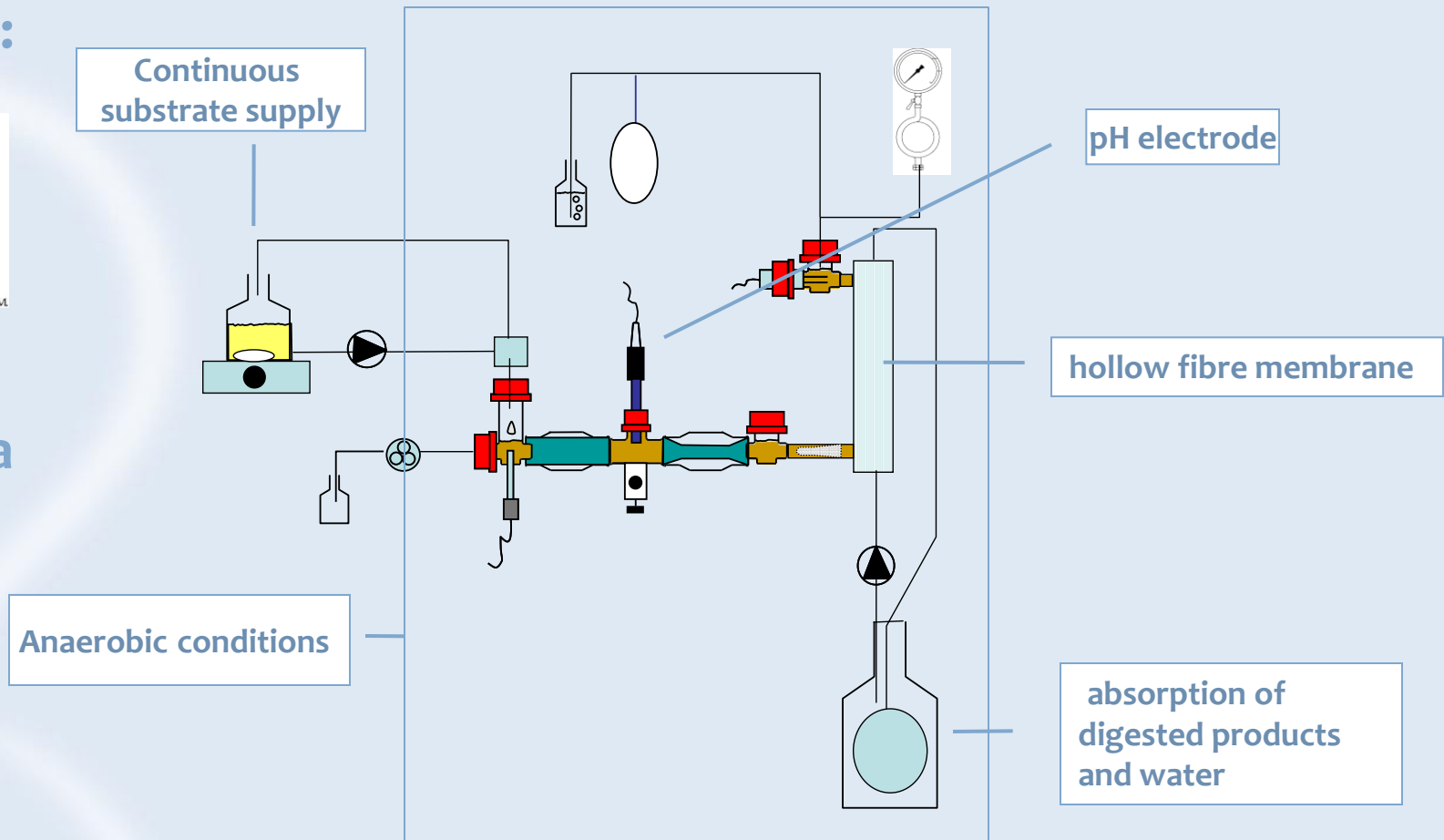
Development of a human dynamic *in vitro* system for the human ileum

Maria Stolaki ^{1,2,3}, Erwin Zoetendal ^{1,3}, Mans Minekus ^{2,3}, Koen Venema ² and Michiel Kleerebezem ^{1,3}

Inoculum:

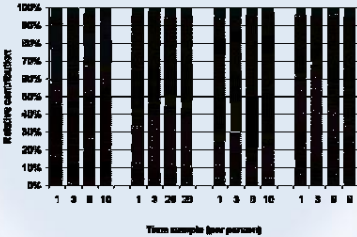


human
ileostoma
effluent

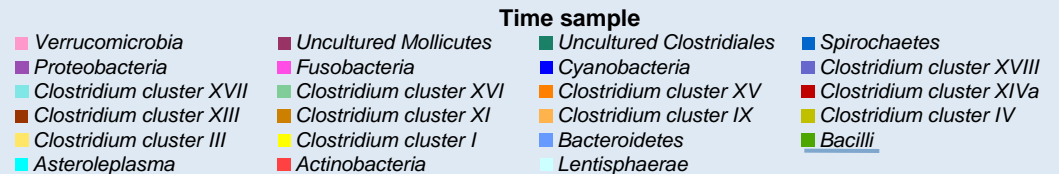
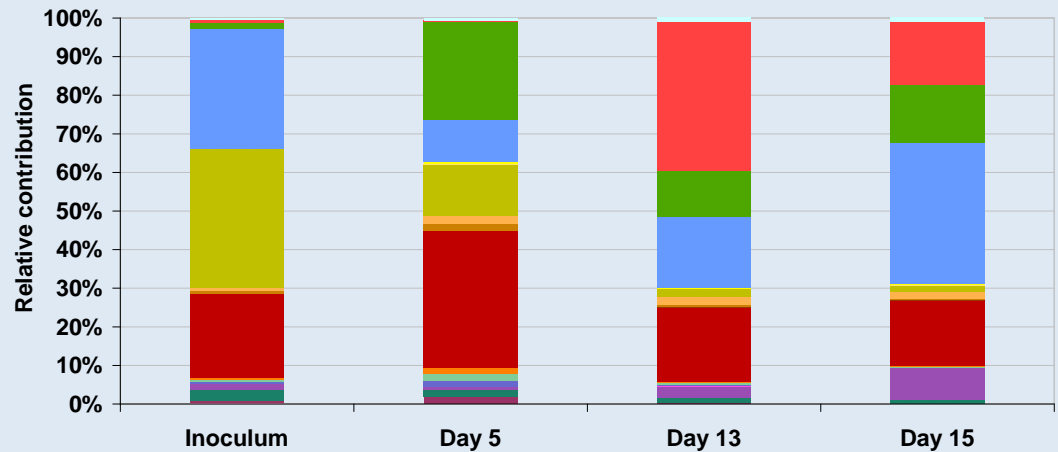


Assessing microbial stability and diversity in the ileum model

First experiments



Microbial profiles of healthy ileostomy subjects (Booijink, PhD thesis, 2009)



Conclusions

- High microbial diversity and complexity within the *in vitro* ileum system
- Streptococci groups increase within the system, resembling the *in vivo* situation
- Not yet a stable microbial community : optimization is needed