

University of Groningen

A Functional Perspective on probiotic Interventions in the Small Intestine

Jansma, Jack

DOI:
[10.33612/diss.825332895](https://doi.org/10.33612/diss.825332895)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date:
2023

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Jansma, J. (2023). *A Functional Perspective on probiotic Interventions in the Small Intestine: Dynamics and Emergent Properties of the Microbial Community*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen. <https://doi.org/10.33612/diss.825332895>

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

PROPOSITIONS

A Functional Perspective on probiotic Interventions in the Small Intestine: Dynamics and Emergent Properties of the Microbial Community

Jack Jansma

1. The functional properties of probiotics should be complementary to the functional profile of the targeted microbiota.
2. The small intestinal microbiota can be studied using ileostoma effluent.
3. Microbial mechanisms obtained utilizing synthetic microbial communities can be extrapolated to the complex microbiota.
4. In silico methods are unavoidable for the development of personalized microbiota targeted interventions.
5. Emergent properties arising from interactions in complex systems are underappreciated.
6. Without knowing the absolute abundance per species, relative abundance comparisons should be taken with a grain of salt.
7. The term “Dysbiosis” is too vaguely defined in the microbiome field.
8. Microbiota researchers need to embrace ecological and evolutionary principles obtained from other areas of research.
9. Western science is and has long been too deterministic.