Prioritisation of knowledge gaps and moving forward

In this guide

In this guide

- 1. Gut Reactions Workshop
- 2. Background and Objectives
- 3. Workshop Overview
- 4. Introductions and aims of the day
- 5. Session I Interactions of the host-microbiome system
- 6. Session I Roundtable Summary
- 7. Session II Gut microbiome and xenobiotics
- 8. Session II Roundtable Summary
- 9. Session III Assessing the impact microbiome
- 10. Session III Possible ways to evaluate in the short to medium term and microbiome interventions for maintaining health and treating disease
- 11. Session III Roundtable Summary
- 12. Session IV Future Directions
- 13. Session IV Roundtable Summary
- 14. Concluding thoughts
- 15. Prioritisation of knowledge gaps and moving forward
- 16. References: Gut Reactions
- 17. Abbreviations: Gut Reactions



Understanding which changes in the microbiome relate to adverse outcomes and the extent to which these are generalizable to different subpopulations



Standardised methods for measuring microbiomes and fit-for purpose translational relevant models, which could include integrative multi-omics approaches. Explore sensitive indicators and biomarkers.



Xenobiotic chemical conversions in the microbiome should continue to be researched and how in turn they might cause adverse effects.



Guidance to evaluate microbiome-related data in chemical risk assessment evaluations.



Improve gap between **innovation and regulatory procedures** as well as define regulatory standards.



Use **trend analysis** using new methodologies to help distinguish between causality, correlation and association.



Explore **fungal and viral microbiota** in both environmental and human health fields not just bacteria microbiota data.



Public engagement on use of live microorganisms e.g. probiotics promoted with claims that they provide health benefits when consumed, generally by improving or restoring the gut microbiota. This can include **vigilance** on bacteria-host interactions and recording unwanted side effects as well as communication on the knowledge of these.