

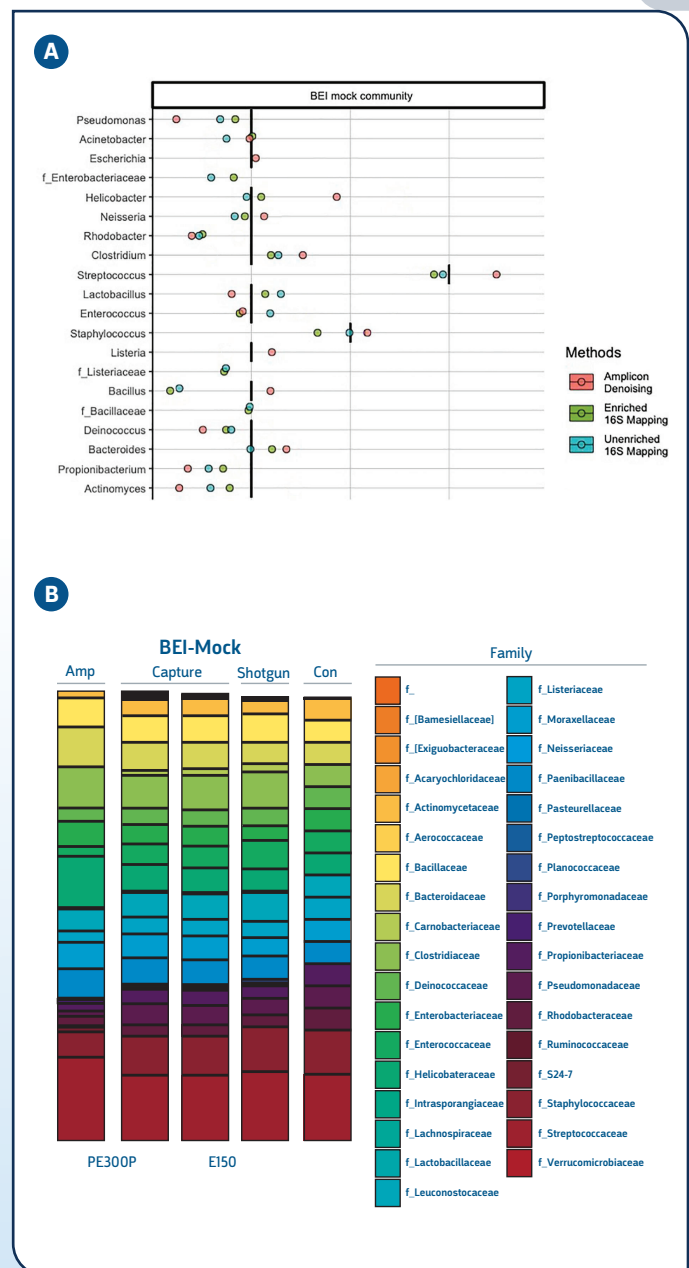
High-resolution microbiome characterization with targeted full-length 16S rRNA gene sequencing



- ## Higher accuracy and resolution than 16S amplicon sequencing

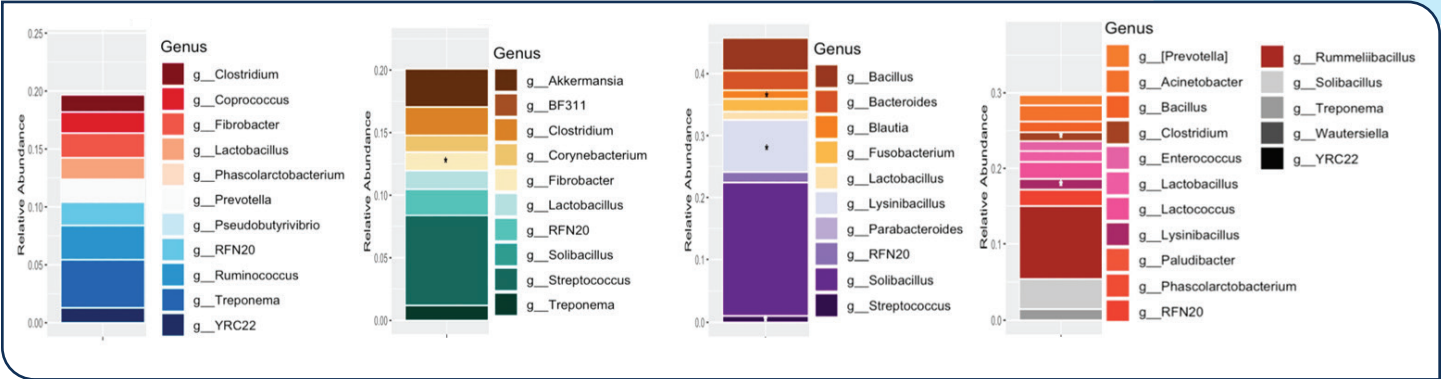
And for even greater data resolution, myBaits 16S capture can be combined with shallow shotgun sequencing from the same NGS library, **enabling comprehensive microbiome profiling** for a fraction of the cost and analysis time of deep sequencing experiments.

Figure 1. (a) A lollipop chart reflecting known content (black lines) with colored dots signifying measured relative abundance from their respective approach. Redrawn from fig 3, Beaudry et al. 2021, *Frontiers in Microbiology*, reproduced under CC BY 4.0. (b) Stacked bar charts representing relative abundance of a mock community at the family level. Each bar plot represents a different condition.



Compatible with a wide range of samples and DNA qualities

myBaits 16S capture has been used on a wide range of sample types, including microbial communities, animal samples, and environmental samples. In the data shown below, four different horse fecal samples were analyzed with the myBaits 16S-Hyb kit, depicting a wide range of bacterial community compositions that can be retrieved with the same enrichment workflow (images from Álvarez Narváez et al. 2024 figure 4, DOI 10.3390/ani14030445, license CC BY 4.0).



References

- Beaudry, M.S. et al. (2021). Improved Microbial Community Characterization of 16S rRNA via Metagenome Hybridization Capture Enrichment. *Frontiers in Microbiology*. DOI10.3389/fmicb.2021.644662
- Álvarez Narváez, Sonsiray, et al. (2024). Improved Equine Fecal Microbiome Characterization Using Target Enrichment by Hybridization Capture. *Animals*. DOI10.3390/ani14030445

Applications

- Targeted sequencing for DNA samples for bacterial community composition and abundance
 - Human, plant, animal, fungus, virus, or bacteria samples
 - Degraded, museum, herbarium, or historical samples

Ordering information

Catalog number	Description
308608.v5	myBaits Expert 16S-Hyb, 8 reactions
308616.v5	myBaits Expert 16S-Hyb, 16 reactions
308648.v5	myBaits Expert 16S-Hyb, 48 reactions
308696.v5	myBaits Expert 16S-Hyb, 96 reactions

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