

Table S2. Fecal microbiome 16S rRNA amplicon sequence datasets analyzed in this study.

Study Name	Citation	Population / Disease Status (n=total samples analyzed for <i>C. difficile</i> in this study)	Primer Design	NCBI SRA Accession
Recurrent CDI	Seekatz, Anna Maria, et al. "Dynamics of the fecal microbiome in patients with recurrent and nonrecurrent <i>Clostridium difficile</i> infection." <i>Genome medicine</i> 8.1 (2016): 47.	Patients with recurrent CDI (n=147)	V4	PRJNA307992
Index CDI	Khanna, S., et al. "Gut microbiome predictors of treatment response and recurrence in primary <i>Clostridium difficile</i> infection." <i>Alimentary pharmacology & therapeutics</i> 44.7 (2016): 715-727.	Index cases of CDI (n=86)	V4	PRJNA342347
NICU Infants	Zhou, Yanjiao, et al. "Longitudinal analysis of the premature infant intestinal microbiome prior to necrotizing enterocolitis: a case-control study." <i>PloS one</i> 10.3 (2015): e0118632.	NICU patients sampled over time (n=322)	V3V5	PRJNA264177
Infant Longitudinal	Davis, Manli Y., et al. "Rapid change of fecal microbiome and disappearance of <i>Clostridium difficile</i> in a colonized infant after transition from breast milk to cow milk." <i>Microbiome</i> 4.1 (2016): 53.	Single infant over first 18 months of life (n=50)	V4	PRJNA331150
FMT Patients and Donors	Seekatz, Anna M., et al. "Recovery of the gut microbiome following fecal microbiota transplantation." <i>MBio</i> 5.3 (2014): e00893-14.	Fecal Microbiota Transplant donors and recipients over time (n=40)	V3V5	PRJNA238042
Healthy Controls	Seekatz, Anna M., et al. submitted	Healthy adult patients (n=211; prepared using same methodology as the Recurrent CDI study)	V4	PRJNA386260