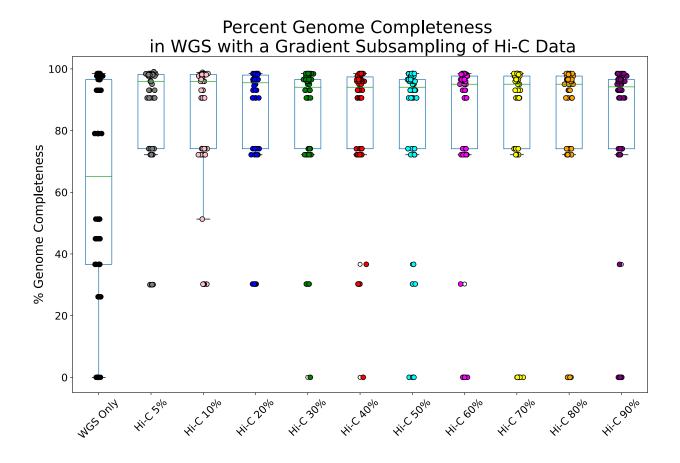
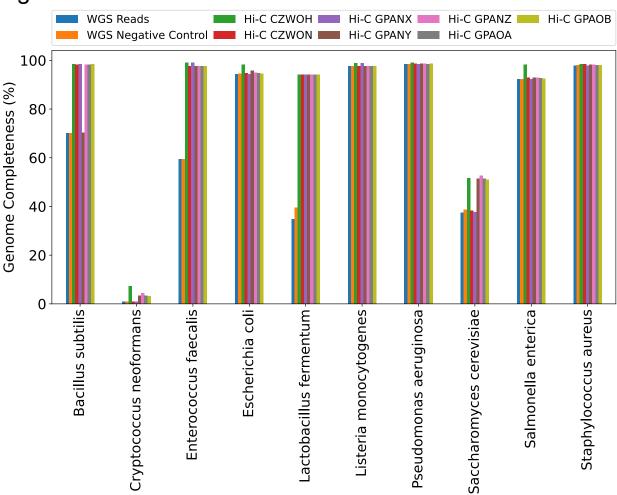
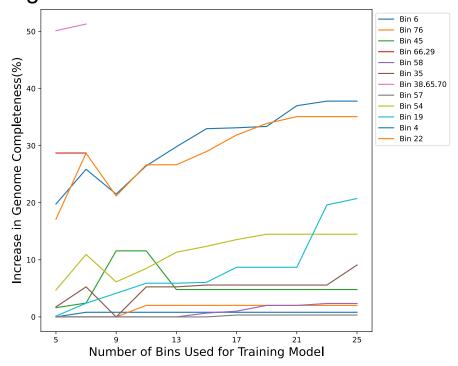
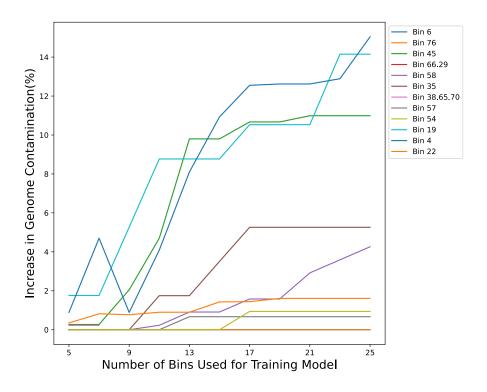
Library	Organism	<b>Cell Numbers</b>	<b>Library Type</b>	Kit	Kit Version
GBBOG	ZymoBIOMICS™ Microbial Community DNA Standard: D6305	100ng DNA	Shotgun	Kapa Hyper Prep Kit	N/A
CZWOH	ZymoBIOMICS™ Microbial Community Standard cells: D6300	1E8 cells	Hi-C	Phase Genomics	1
CZWON	ZymoBIOMICS™ Microbial Community Standard cells: D6300	2.8E8 cells	Hi-C	Arima/Kapa	1
<b>GPANX</b>	ZymoBIOMICS™ Microbial Community Standard cells: D6300	2.8E8 cells	Hi-C	Arima/Kapa	1
<b>GPANY</b>	ZymoBIOMICS™ Microbial Community Standard cells: D6300	1E8 cells	Hi-C	Phase Genomics	1.5
<b>GPANZ</b>	ZymoBIOMICS™ Microbial Community Standard cells: D6300	1E8 cells	Hi-C	Phase Genomics	1.5
<b>GPAOA</b>	ZymoBIOMICS™ Microbial Community Standard cells: D6300	1E8 cells	Hi-C	Phase Genomics	1.5
GPAOB	ZymoBIOMICS™ Microbial Community Standard cells: D6300	1E8 cells	Hi-C	Phase Genomics	1.5

#### Figure S2









#### Metabat-LR Unique Bins from Cat Fecal Dataset

Completeness	Contamination Bin Id	Marker lineage
98.88	2.25 bin.14.fa	kBacteria (UID2329)
82.79	2.5 bin.7.fa	oBacteroidales (UID2621)
74.8	4.08 bin.6.fa	oClostridiales (UID1120)
72.74	4.74 bin.4.fa	oLactobacillales (UID544)
68.1	1.72 bin.13.fa	kBacteria (UID203)
61.94	8.62 bin.17.fa	kBacteria (UID203)
52.74	3.45 bin.65.fa	kBacteria (UID203)
51.72	1.72 bin.46.fa	kBacteria (UID203)

#### Metabat-LR Unique Bins from Human Fecal Dataset

Completeness	Contamination Bin Id	Marker lineage
96.31	0 bin.15.fa	oBacteroidales (UID2654)
89.13	4.52 bin.49.fa	fLachnospiraceae (UID1256)
74.49	0.81 bin.45.fa	pActinobacteria (UID2112)
55.93	1.75 bin.72.fa	kBacteria (UID203)
50.51	0 bin.35.fa	kBacteria (UID203)