UMBS-seq: Testing cfDNA

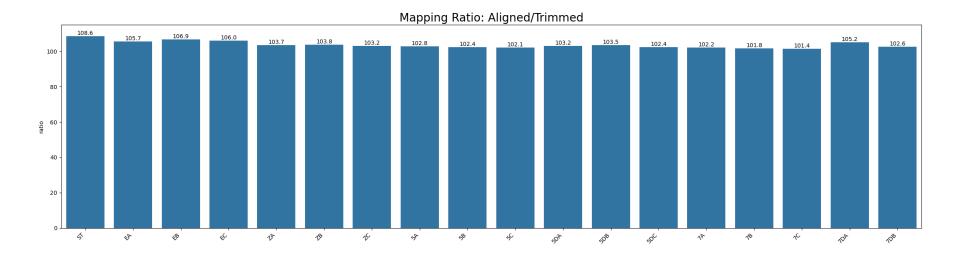
Investigator: Tanner Baldwin

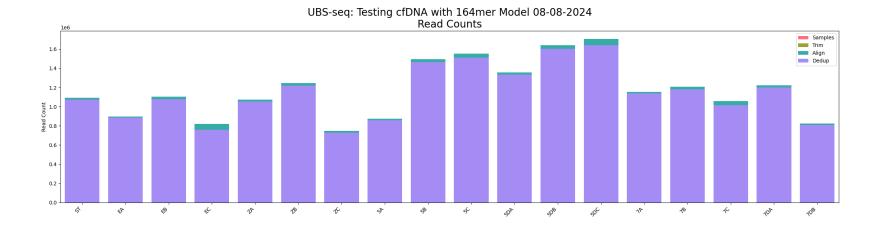
Analysis: C. Bryan Daniels and Chang Ye

Supervisor: Qing Dai

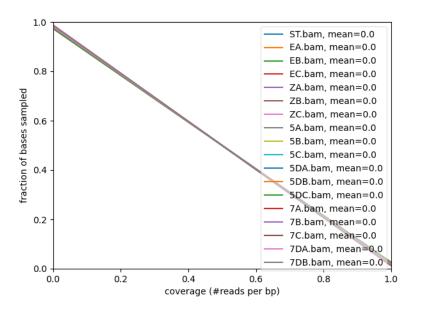
September 8, 2024

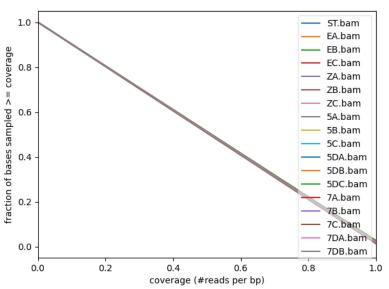
Sample ID	Recipe ID	Starting Material	Recipe	Time	Temperature
ST	-	0.5 ng	Only denaturing - no BS	-	-
EA	-	5 ng	EM-seq Kit Reagents	~4.5 hours	Varied
EB	-	0.5 ng	EM-seq Kit Reagents	~4.5 hours	Varied
EC	-	0.05 ng	EM-seq Kit Reagents	~4.5 hours	Varied
ZA	-	5 ng	Zymo DNA Methylation Gold Kit	10min/2.5hr	98 C / 64 C
ZB	-	0.5 ng	Zymo DNA Methylation Gold Kit	10min/2.5hr	98 C / 64 C
ZC	-	0.05 ng	Zymo DNA Methylation Gold Kit	10min/2.5hr	98 C / 64 C
5A	R8-4	5 ng	R8-4 (300 µl 68% NH4BS + 6 µl 20M KOH)	90 min	55 C
5B	R8-4	0.5 ng	KOH) R8-4 (300 μl 68% NH4BS + 6 μl 20M	90 min	55 C
5C	R8-4	0.05 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	90 min	55 C
5DA	R8-4	5 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	90 min	55 C
5DB	R8-4	0.5 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	90 min	55 C
5DC	R8-4	0.05 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	90 min	55 C
7A	R8-4	5 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	20 min	75 C
7B	R8-4	0.5 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	20 min	75 C
7C	R8-4	0.05 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	20 min	75 C
7DA	R8-4	5 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	20 min	75 C
7DB	R8-4	0.5 ng	ΚΟΗ) R8-4 (300 μl 68% NH4BS + 6 μl 20M ΚΟΗ)	20 min	75 C
7DC	R8-4	0.05 ng	R8-4 (300 µl 68% NH4BS + 6 µl 20M KOH)	20 min	75 C

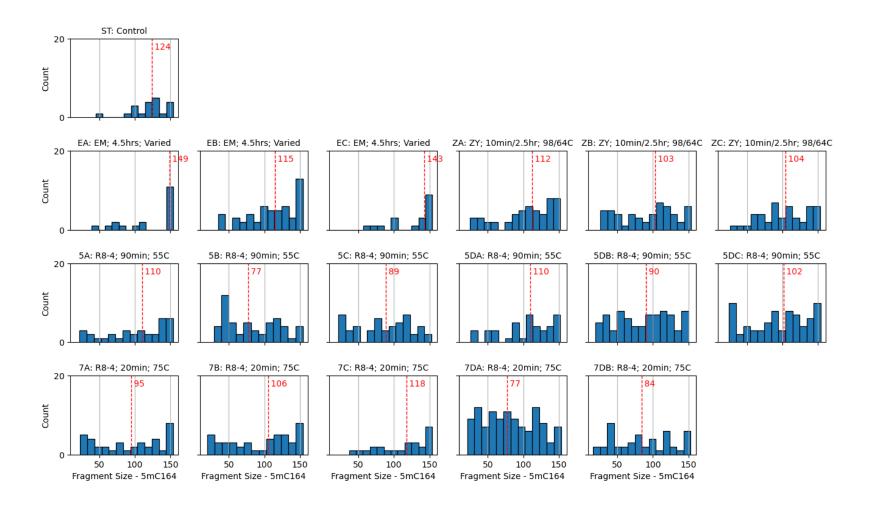


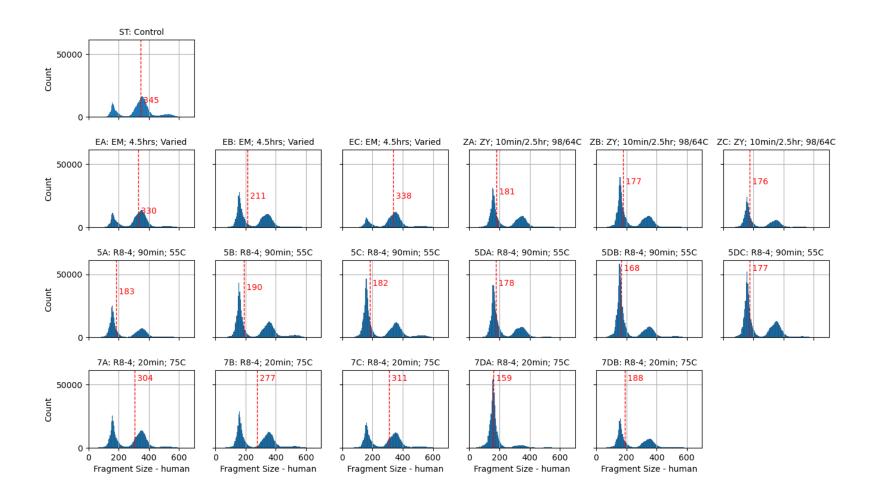


Read Coverage

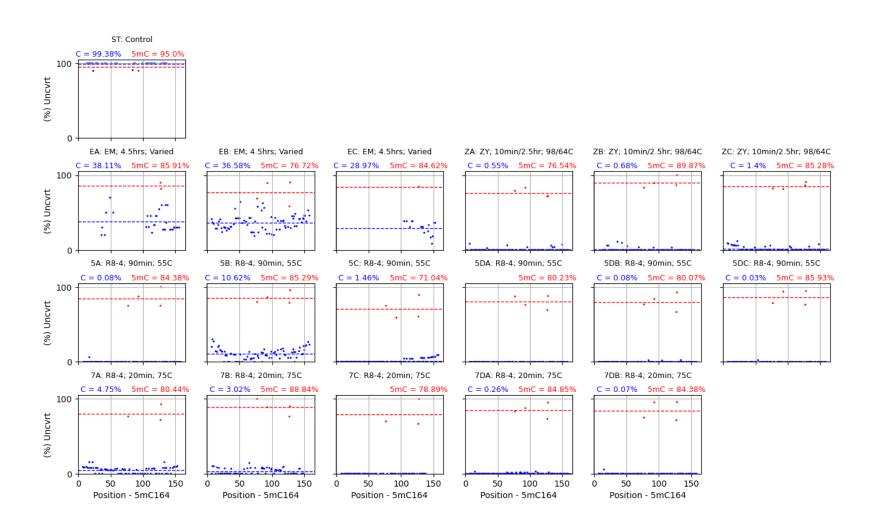


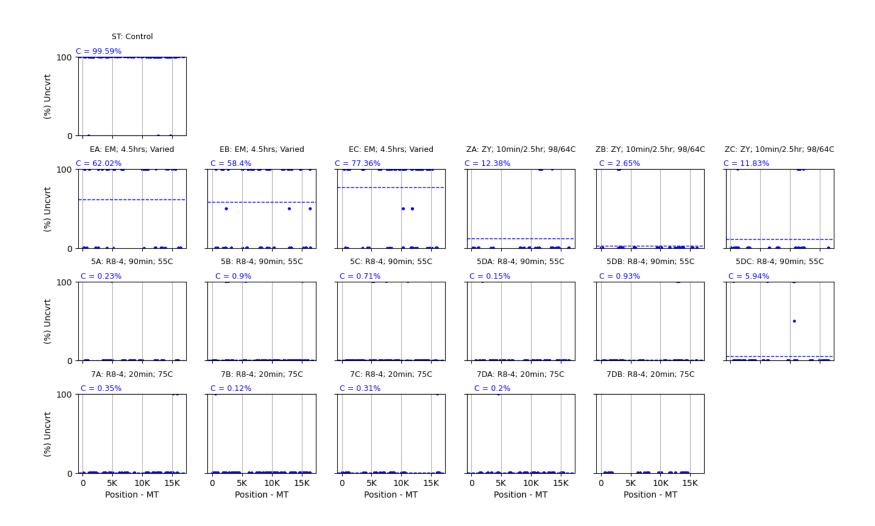


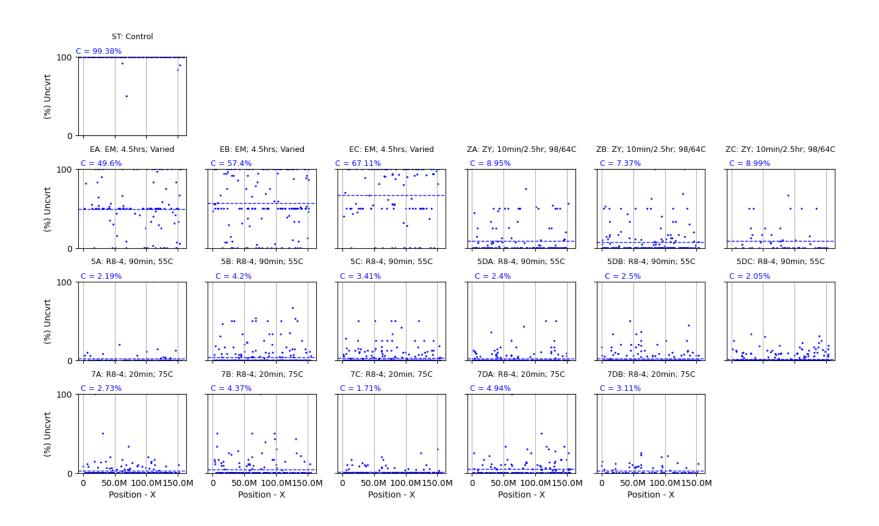




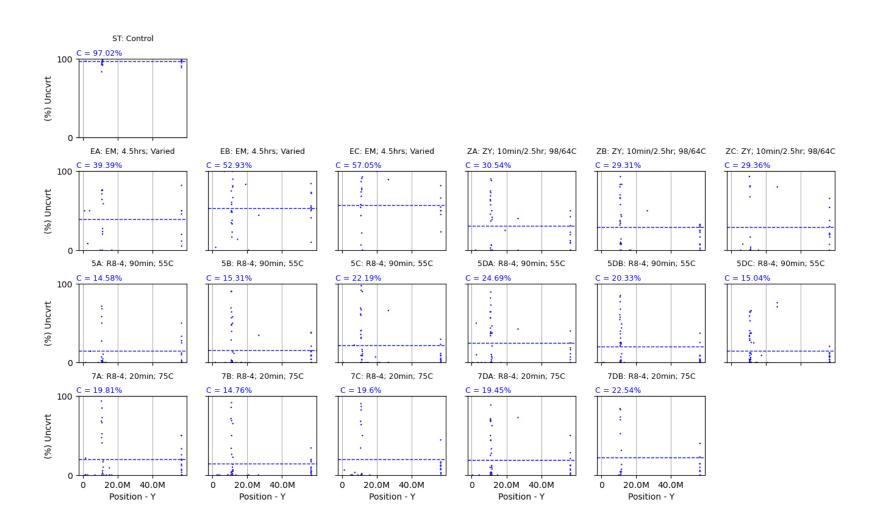
UBS-seq: Testing cfDNA with 164mer Model 08-08-2024 Unconverted Ratio Un-Filtered Depth ≥ 10 - 5mC164



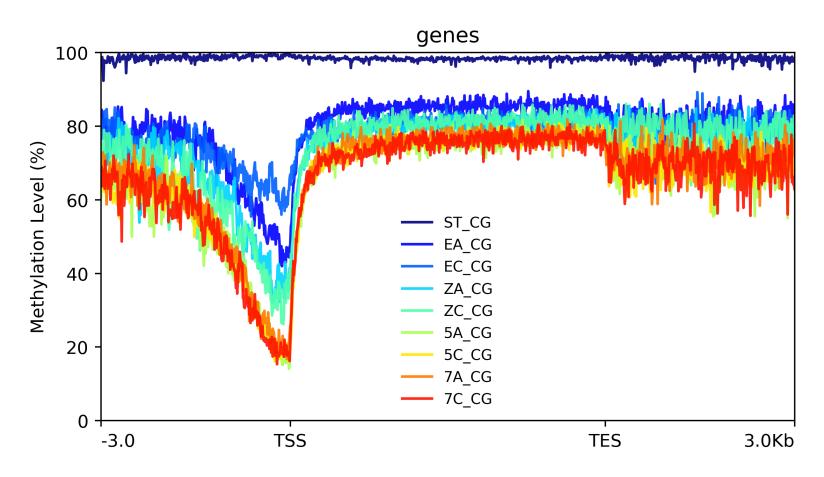




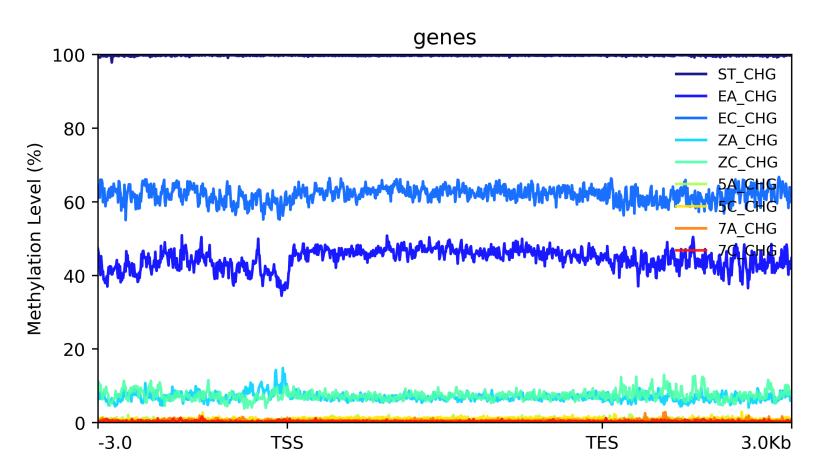
UBS-seq: Testing cfDNA with 164mer Model 08-08-2024 Unconverted Ratio Human Y Chromosome Depth \geq 2 - Y



motif_groups - CpG Motif



motif_groups - CHG Motif



motif_groups - CHH Motif

