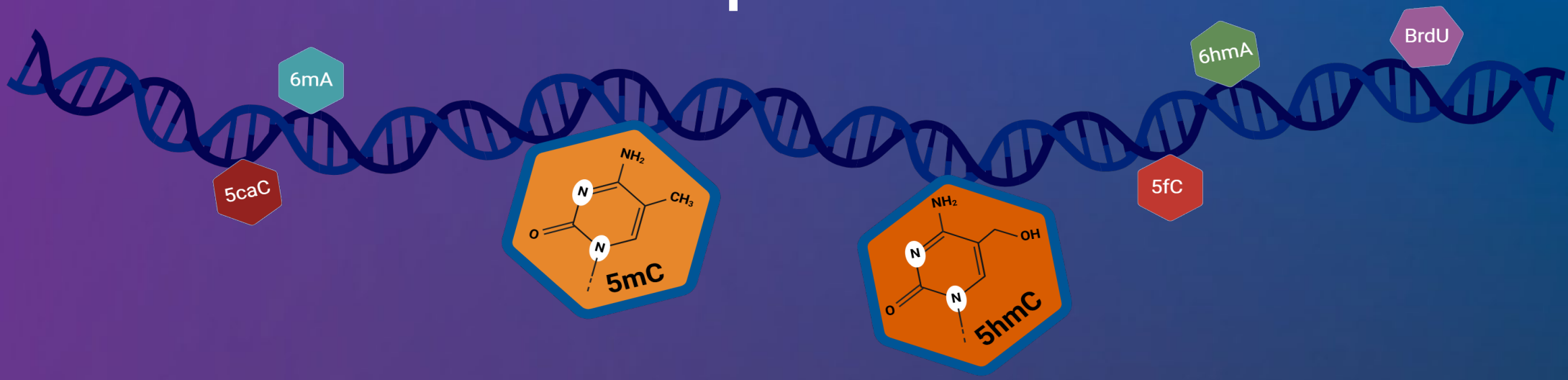
Whole Genome Enzymatic Methylation Assay Comparison



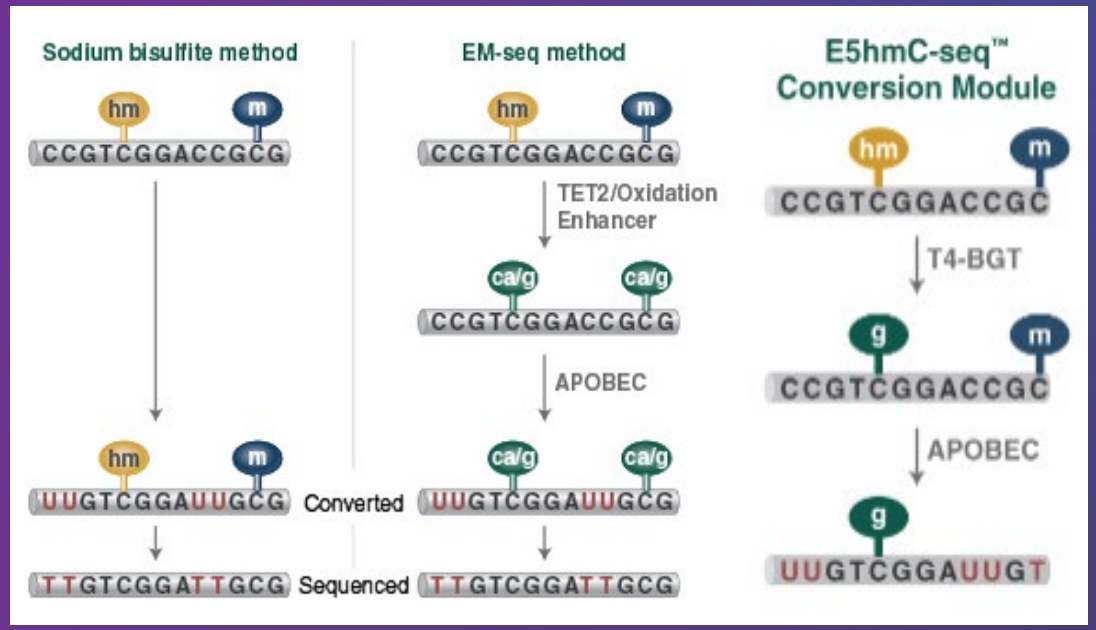
Presenter: Katelyn Becker

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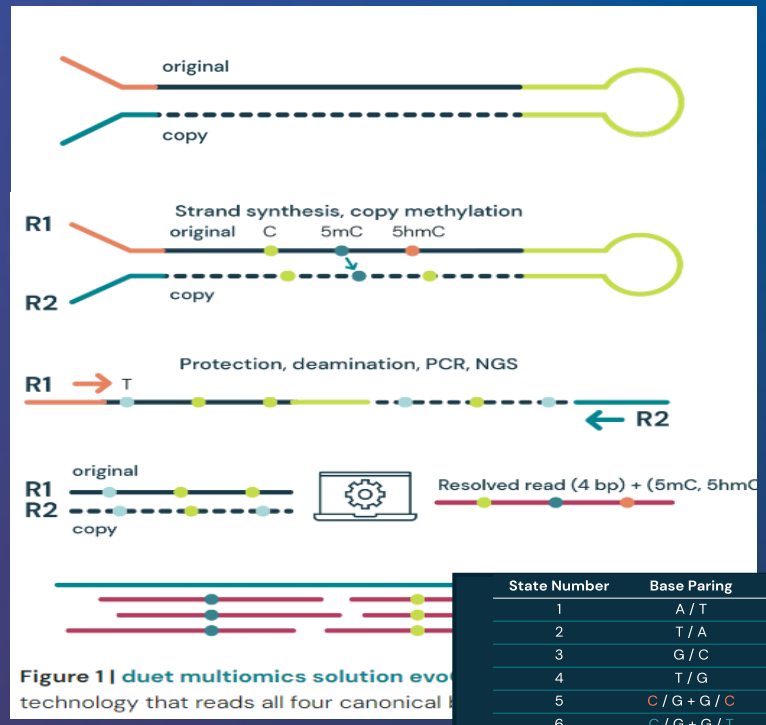
NEBNext Enzymatic Methyl-Seq Kit

NEBNext Enzymatic 5hmC-Seq Kit



Duet + modC assay

Duet evoC assay

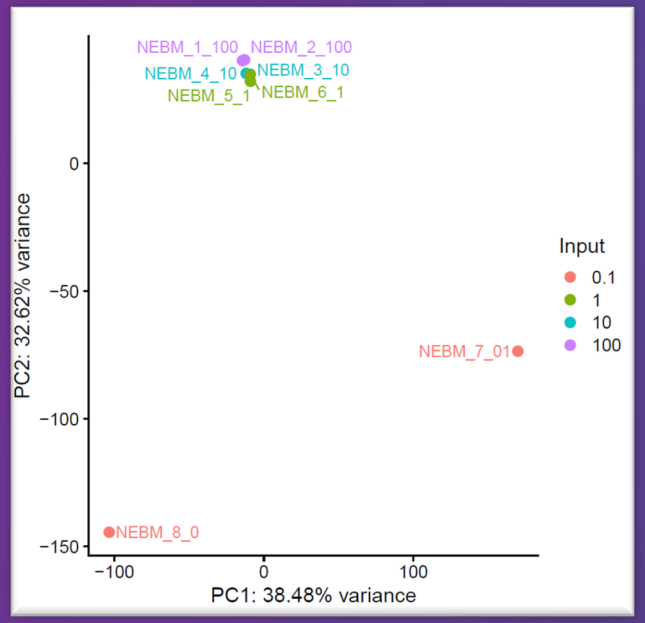


State Number	Base Paring	Resolved Base	Resolved State
1	A / T	A	A
2	T / A	T	T
3	G / C	G	G
4	T / G	C	C
5	C / G + G / C	C	5mC
6	C / G + G / T	C	5hmC
7 – 16	A / C; T / T	N	Suppressed Error

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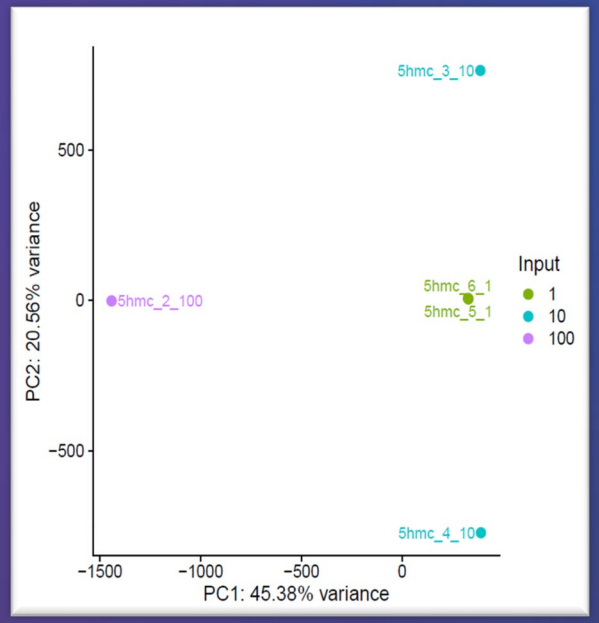
biomodal

NEBNext Enzymatic Methyl-Seq Kit



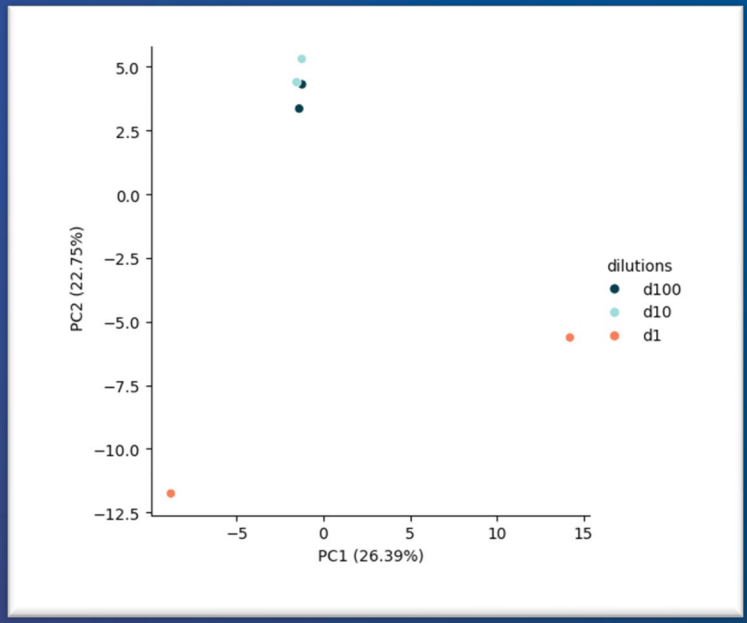
Kit range: 10-200ng

NEBNext Enzymatic 5hmC-Seq Kit



Kit range: 0.1-200ng

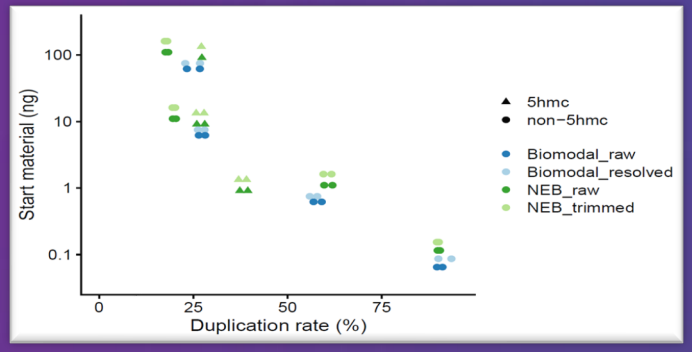
Duet evoC assay



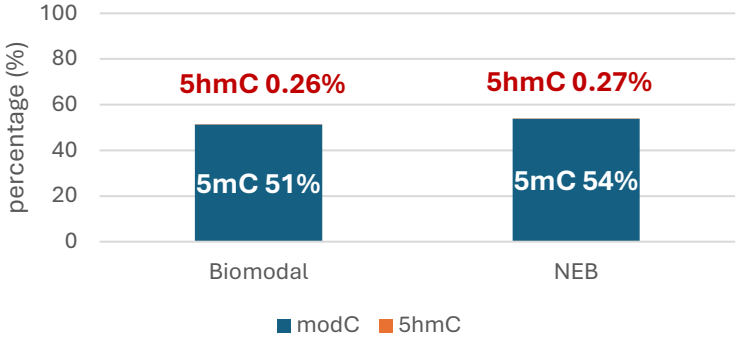
Kit range: 10-80ng

Inputs: 100ng, 10ng, 1ng, 0.1ng DNA

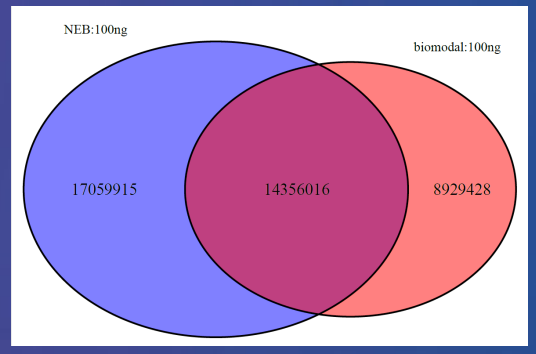
Duplication Rates Across Starting Material and Method

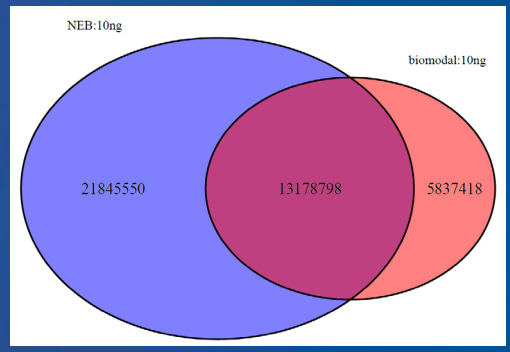


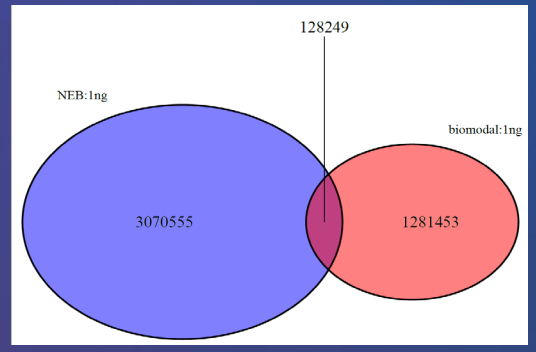
Genome-wide modification rates

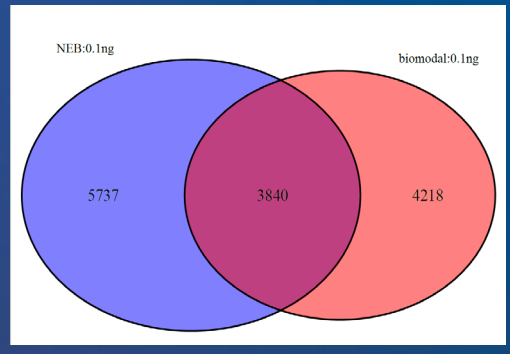


CpG sites with at least 5X coverage mod C comparison

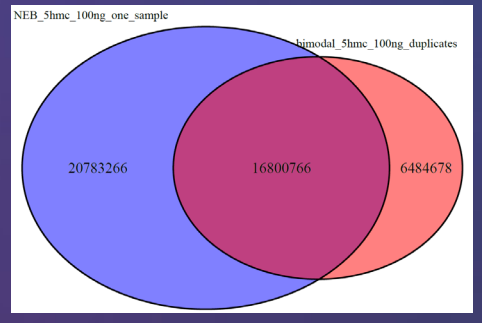


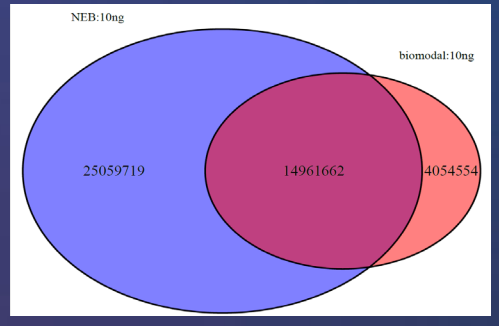


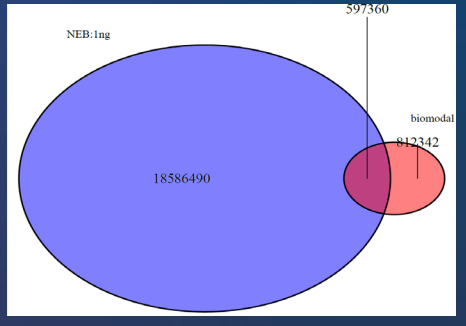




CpG sites with at least 5X coverage 5hmC only comparison







Thank you!

Acknowledgments



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