

A **WGMS** CpG Methylation *Methylated* / *Unmethylated*

Watson-derived	<i>Reference</i>	ACG	CCG	GCG	TCG	NCGN Allowed
	<i>Methylated</i>	ACG	TCG	GCG	TCG	
	<i>Unmethylated</i>	ATG	TTG	GTG	TTG	
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Crick-derived	<i>Reference</i>	ACG	CCG	GCG	TCG	NCGN Allowed
	<i>Methylated</i>	ACG	CCG	ACG	TCG	
	<i>Unmethylated</i>	ACA	CCA	ACA	TCA	

B

NOMe-seq CpG Methylation

Methylated / Unmethylated

Watson-derived

Reference

ACG

CCG

GCG

TCG

Methylated

ACG

TCG

.....

TCG

Unmethylated

ATG

TTG

.....

TTG

HCG Allowed

Crick-derived

Reference

CGA

CGC

CGG

CGT

Methylated

CGA

.....

CGA

CGT

Unmethylated

CAA

.....

CAA

CAT

CGH Allowed

C

NOMe-seq GpC Methylation

Methylated / Unmethylated

Watson-derived

Reference

GCA

GCC

GCG

GCT

Open

GCA

GCT

.....

GCT

Shut

GTA

GTT

.....

GTT

GCH Allowed

Crick-derived

Reference

AGC

CGC

GGC

TGC

Open

AGC

.....

AGC

TGC

Shut

AAC

.....

AAC

TAC

HGC Allowed