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Enzyme	Effector of	Substrates		
		Histone	NR	Coregulator
HMTs				
Arginine				
CARM1 (PRMT4)	ER, AR, TR, PPARγ	H3R2, H3R17, H3R26		SRC-3, CBP/p300
PRMT1	ER, AR, TR, HNF	H4R3	ER, HNF4	PGC-1α, RIP140
Lysine				
EZH2	ER	H3K27		
ESET	ER, AR	H3K9		
RIZ1	ER, AR	H3K9		
G9a	ER	H3K9		
SUV39H	TR	H3K9		
EuHMTase	ER	H3K9		
MLL3	LXR	H3K4		
MLL4	LXR	H3K4		
Set7/9		H3K4	ER	
HDMTs				
Arginine				
PADI4	ER	H3R2, H3R17, H3R26		CBP/p300
Lysine				
LSD1	ER, AR	H3K4, H3K9		
JHDM2A/KDM3A	AR, PPARγ, RXRα	H3K9		
JHDM3A/KDM4A	AR	H3K9, H3K36		
JHDM3C/KDM3C	AR, GR, PR	H3K9, H3K36		

HNF4, Hepatocyte nuclear factor 4; LXR, Liver X receptor; PR, progesterone receptor; RXR, retinoid X receptor.

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