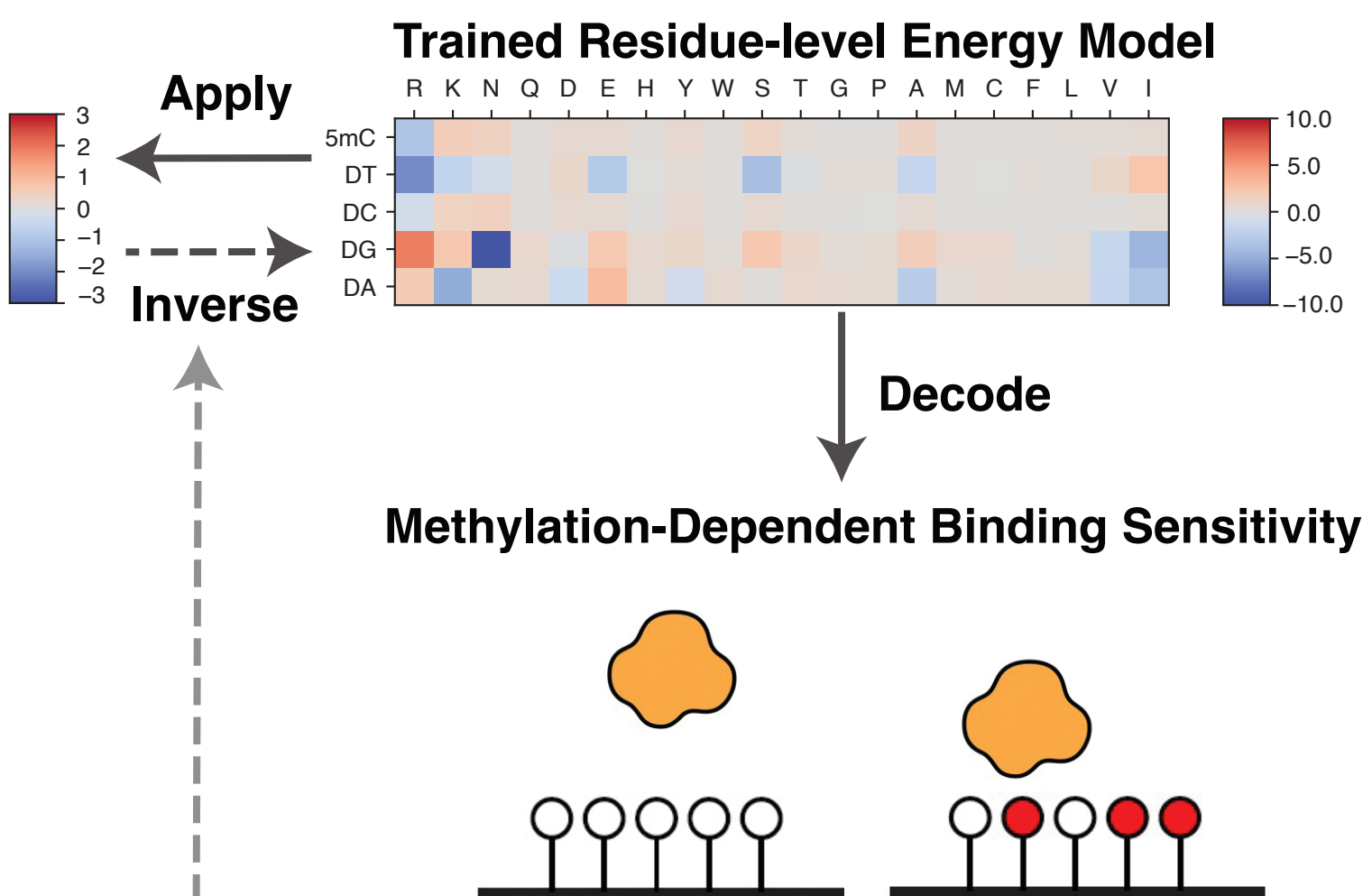
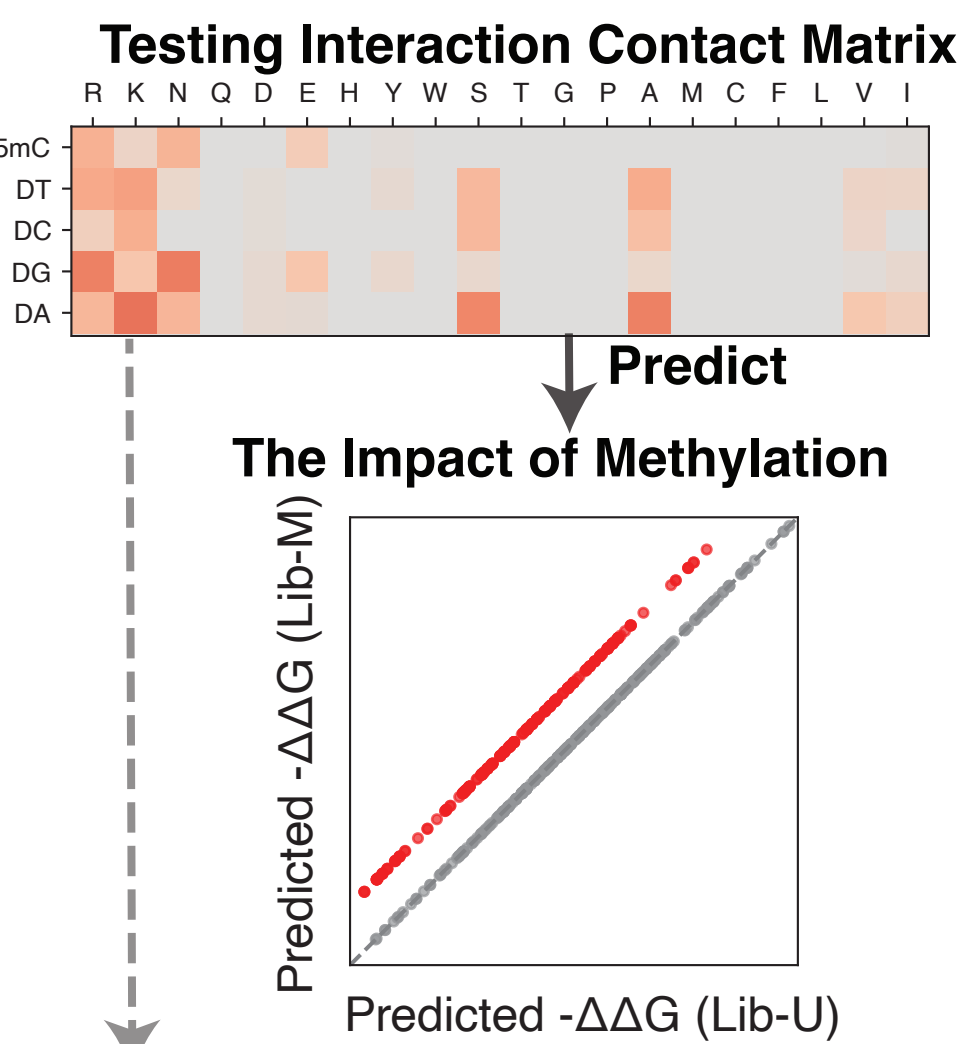
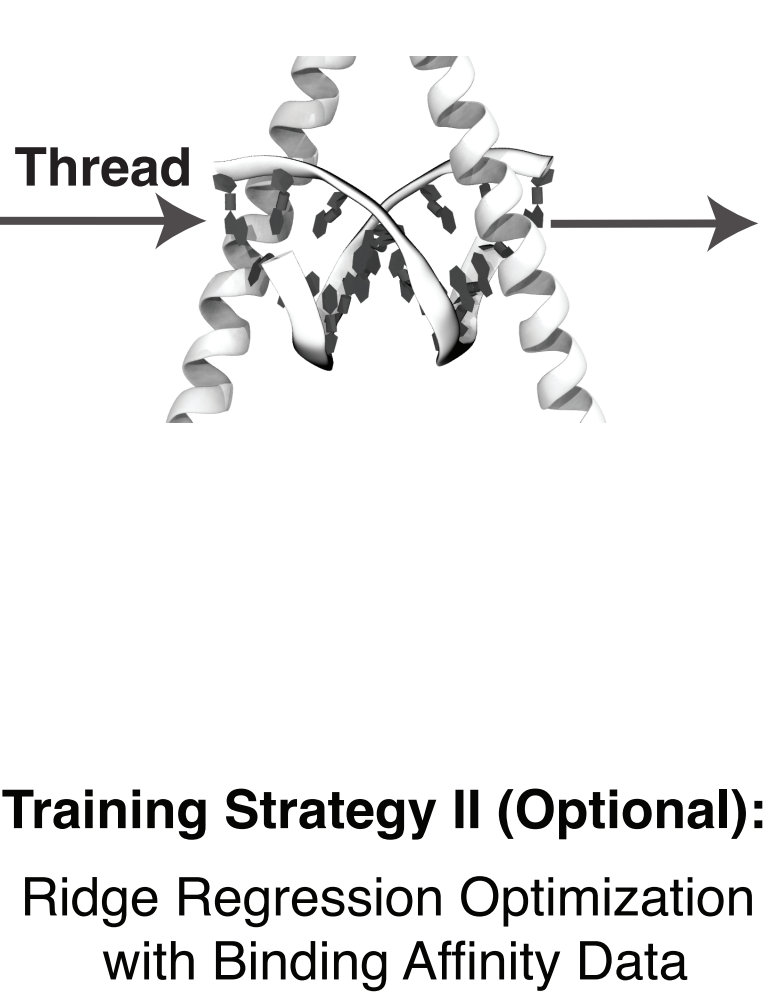
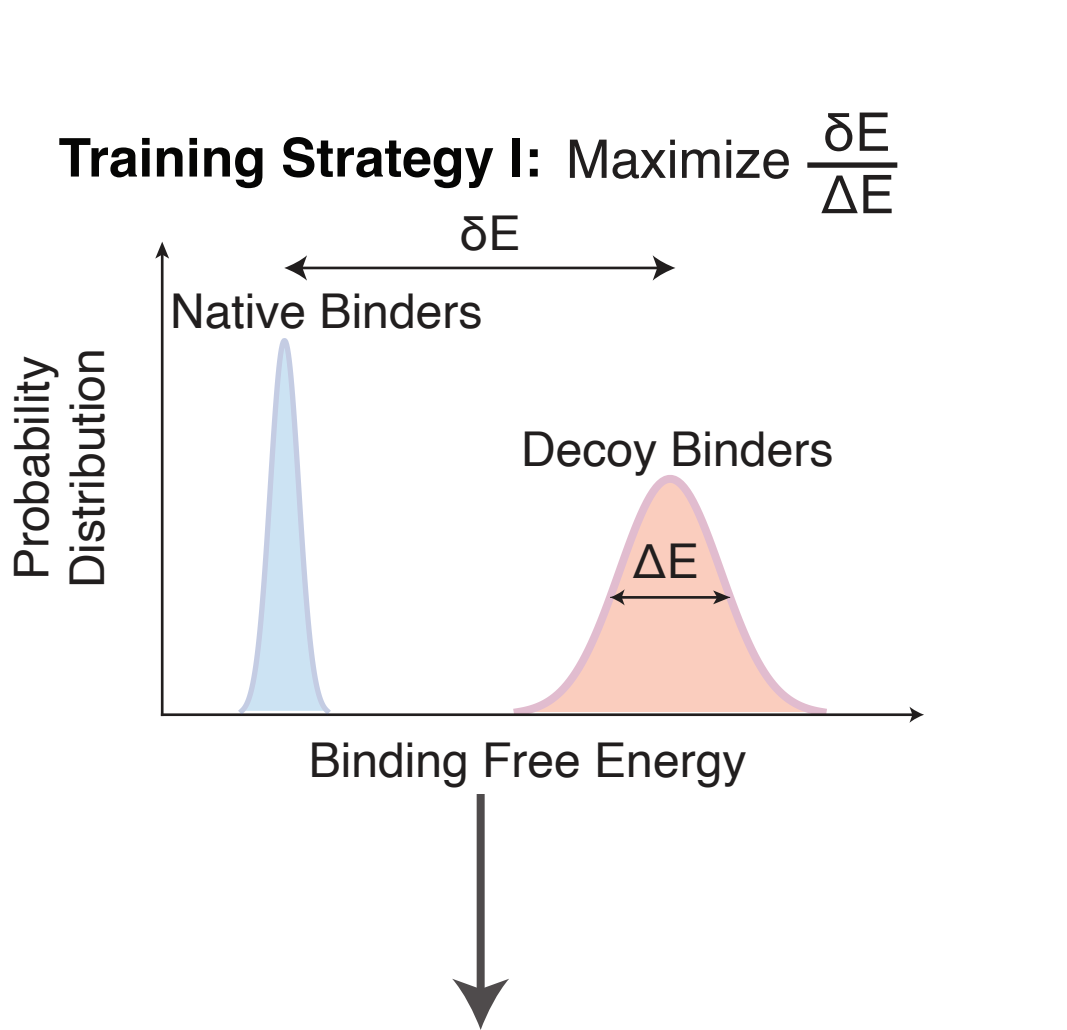
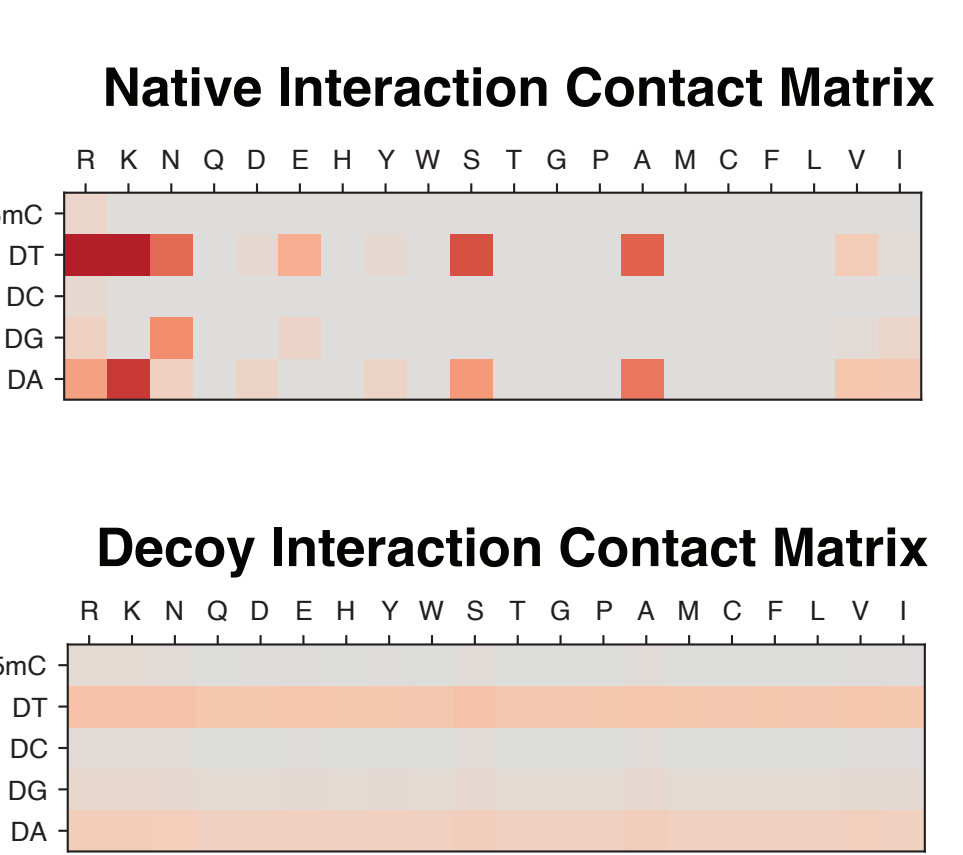
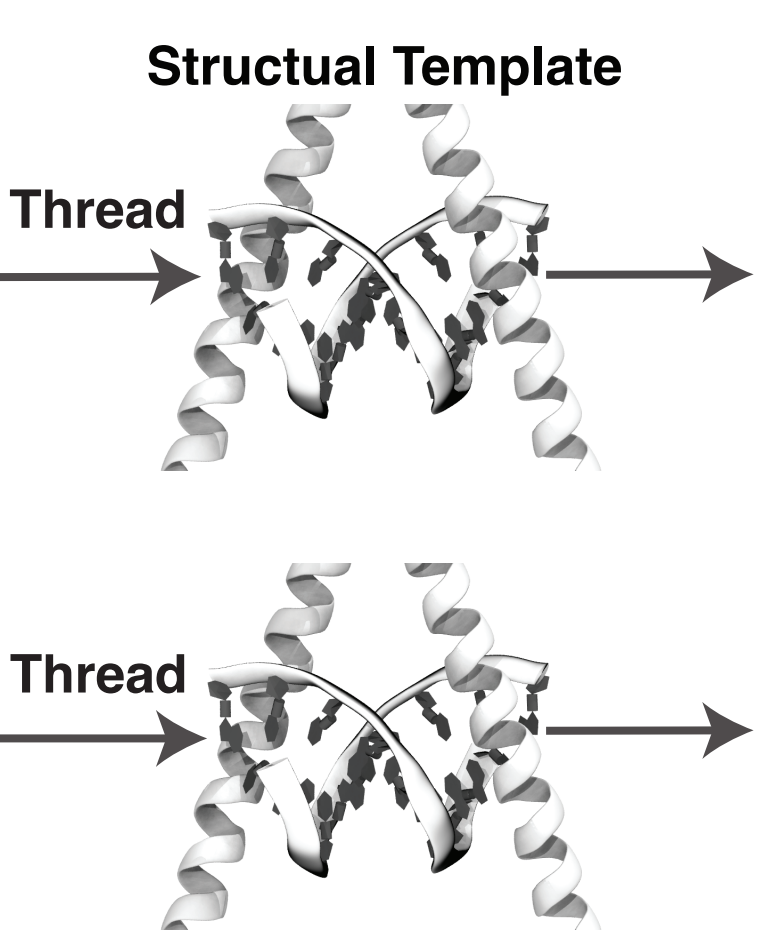


Training Sequences (with methylation-effect weighting)			
Affinity Labeling	Type	Unmethylated (n=3)	Methylated (n=5)
Native Binder	DNA	ATTACGTAAT	ATTAC <sup>m</sup> GTAAT
	Protein	...RRERNNI AVR...	...RRERNNI AVR...
Decoy Binders	DNA	TAATCGTAAT	TAATC <sup>m</sup> GTAAT
		TTACC <sup>m</sup> TTCTC	ATACCTTTTC
		...	...
		C <sup>m</sup> GCAACTC <sup>m</sup> AC	CTCAAC <sup>m</sup> CTAC
	Protein	...YQTCICDVHW...	...YQTCICDVHW...
		...HRWANMAVSL...	...HRWANMAVSL...
		...	...
	Protein	...WQVWYIPNVM...	...WQVWYIPNVM...
		...	...

Testing Sequences				
Target ID	Unmethylated	Affinity	Methylated	Affinity
Seq1	TCATCGTAAT	0.9	TCATC <sup>m</sup> GTAAT	0.5
Seq2	GTTGCGCAAC	0.6	GTTGC <sup>m</sup> GCAAC	0.4
...	...		...	
SeqN	GTAGCGTAAC	0.2	GTAGC <sup>m</sup> GTAAC	0.1



Training Strategy II (Optional):

Ridge Regression Optimization with Binding Affinity Data