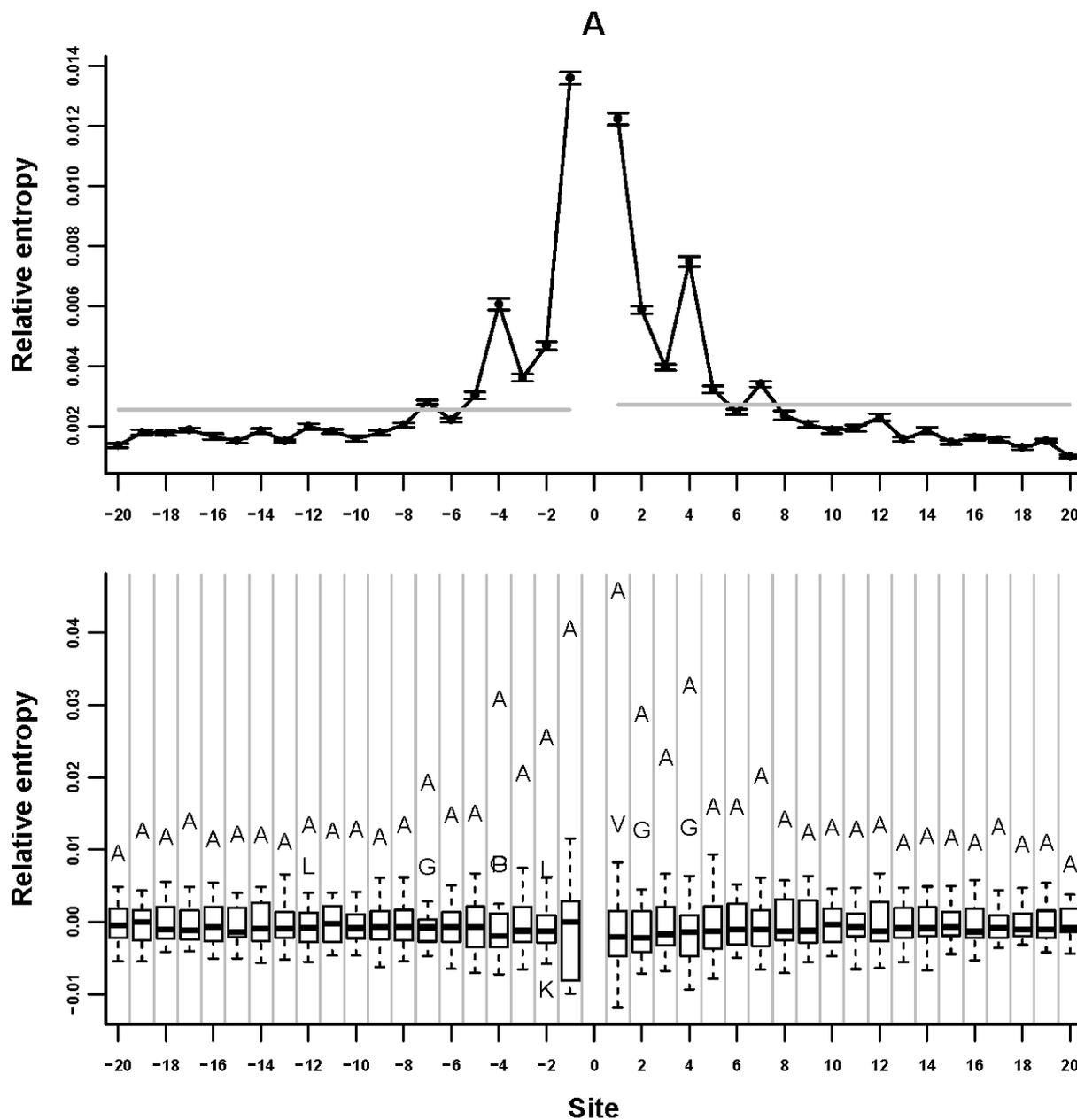
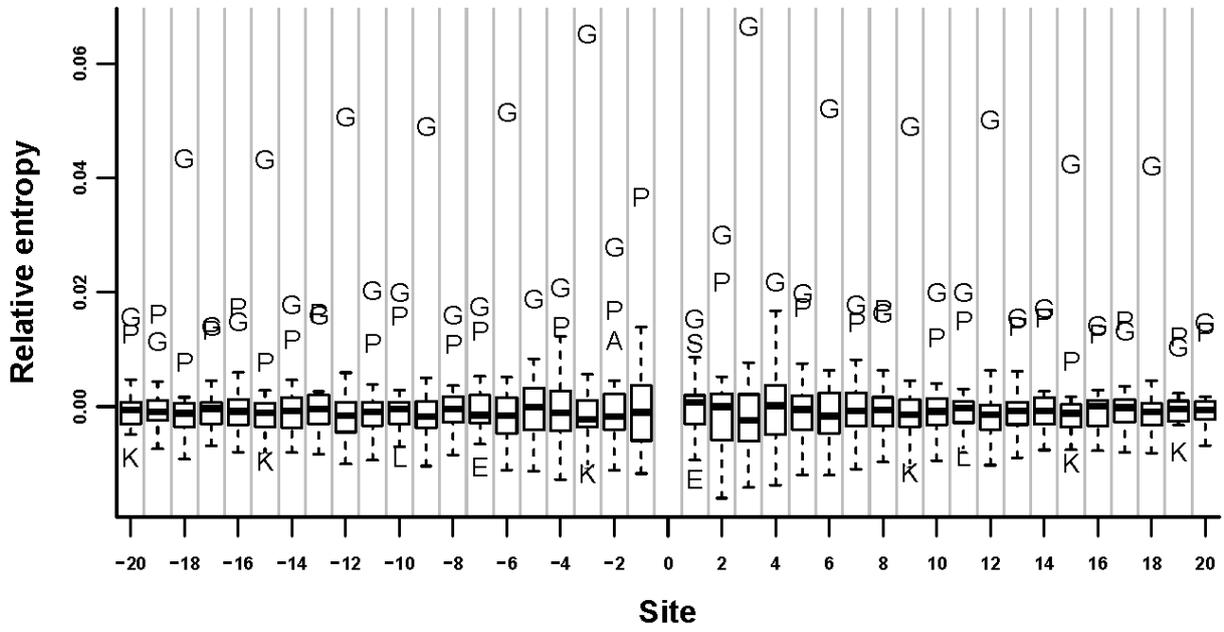
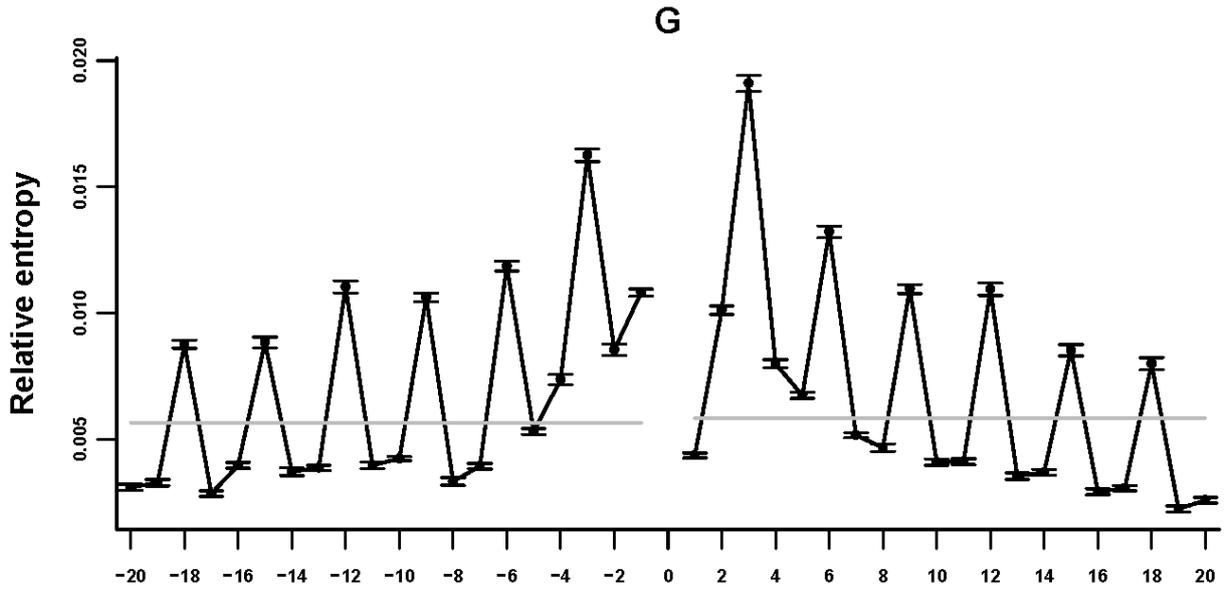
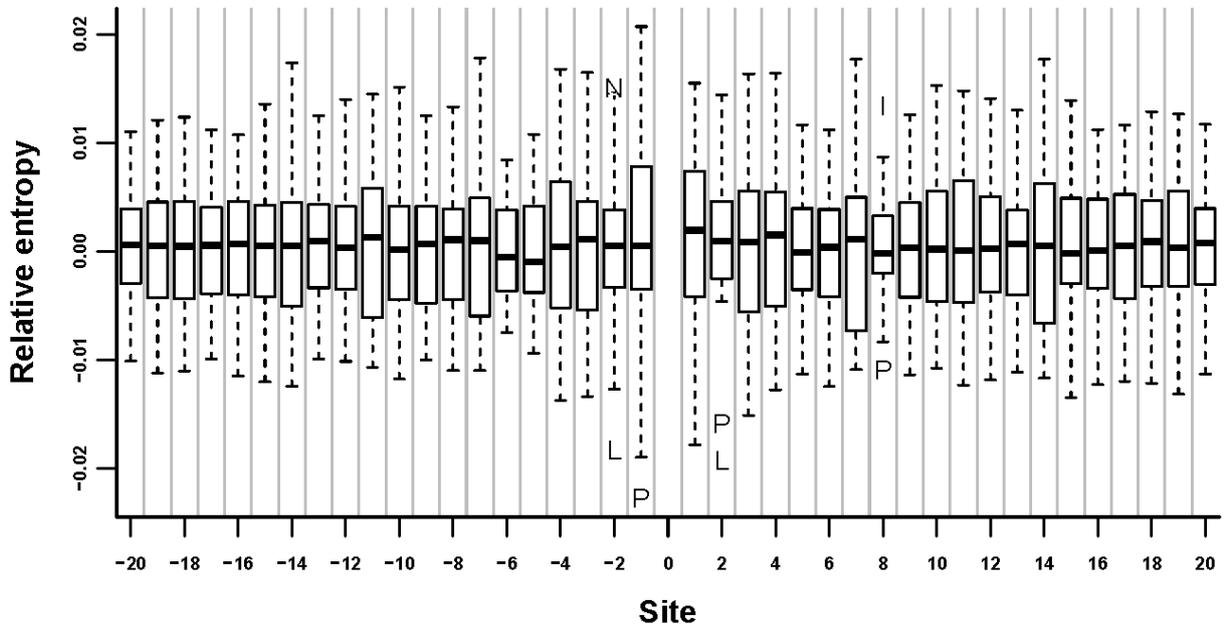
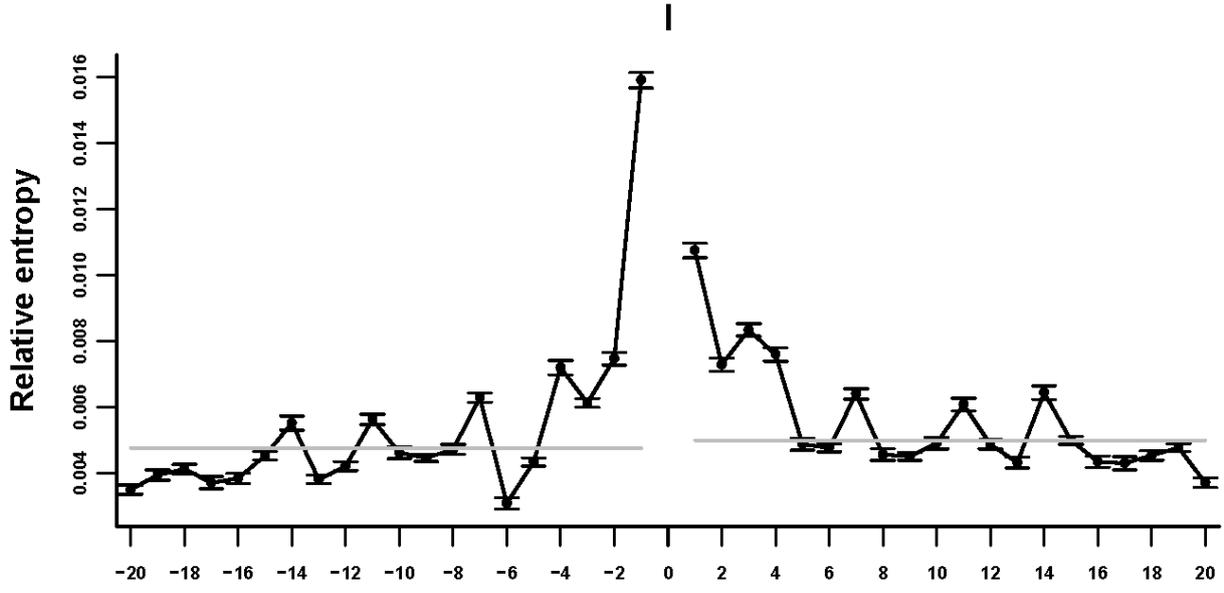


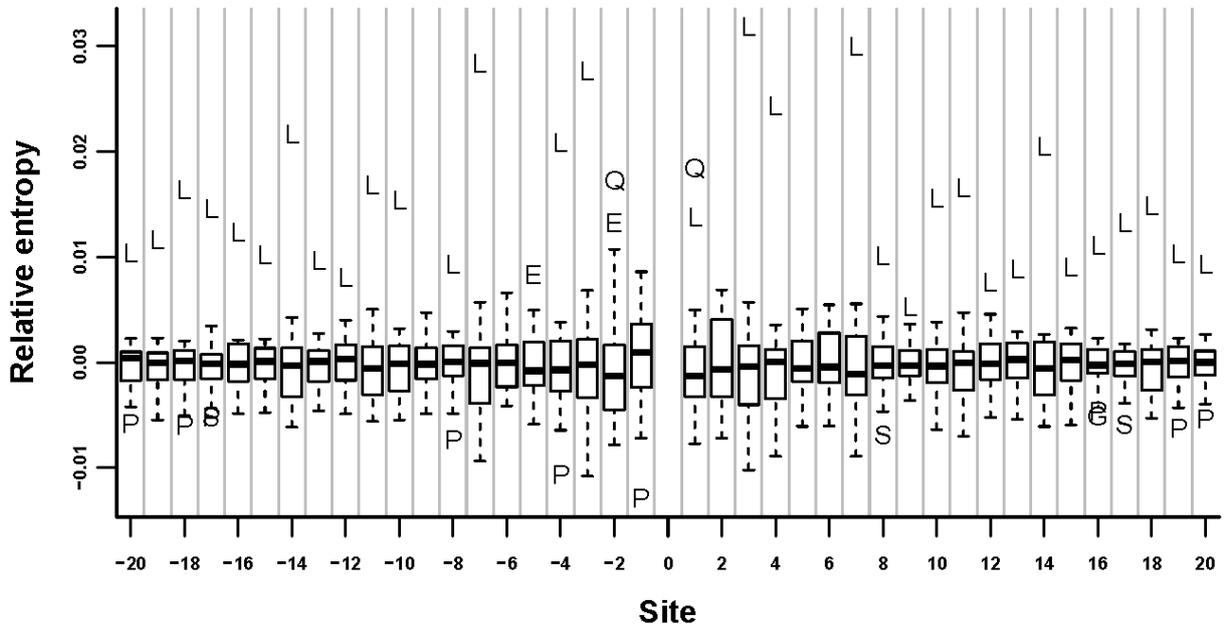
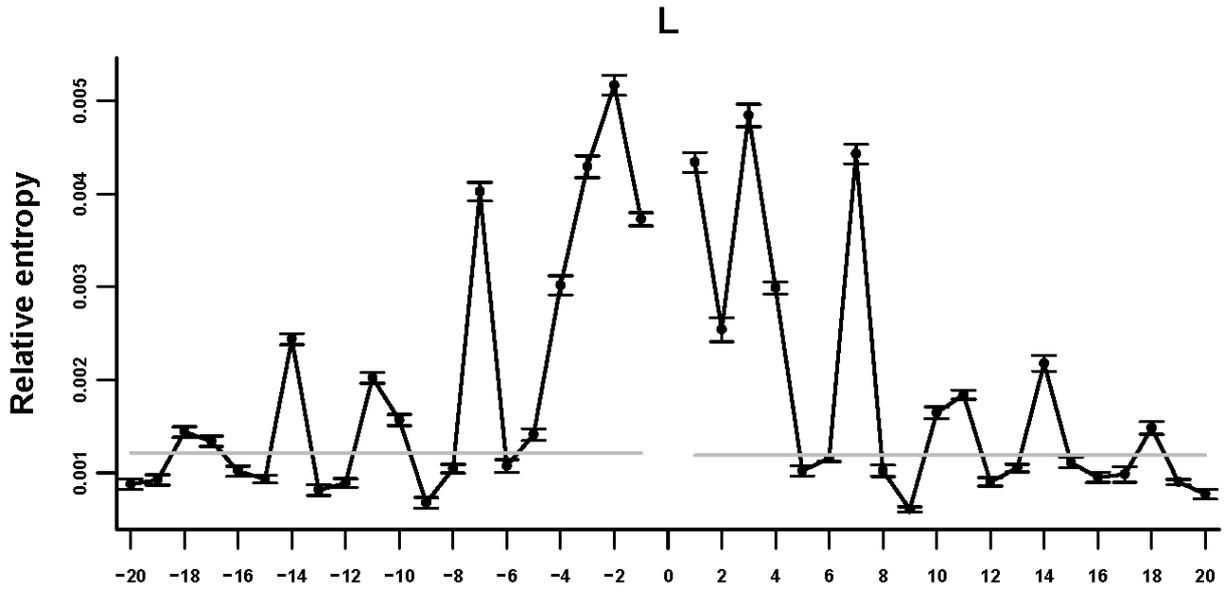
# Supplementary Information

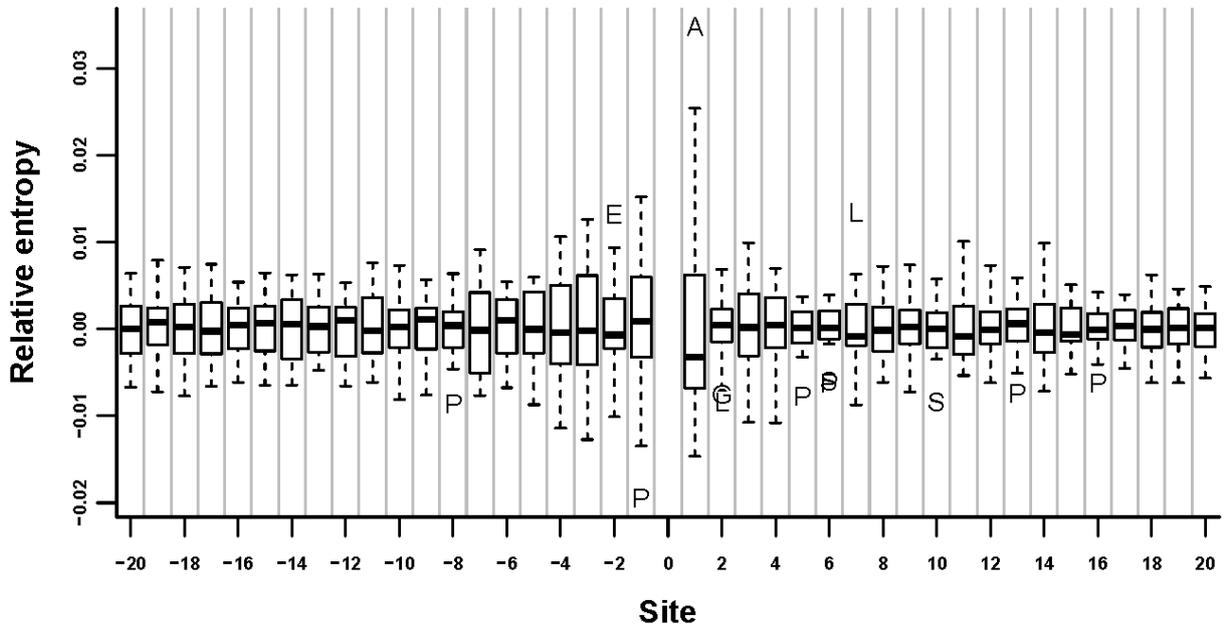
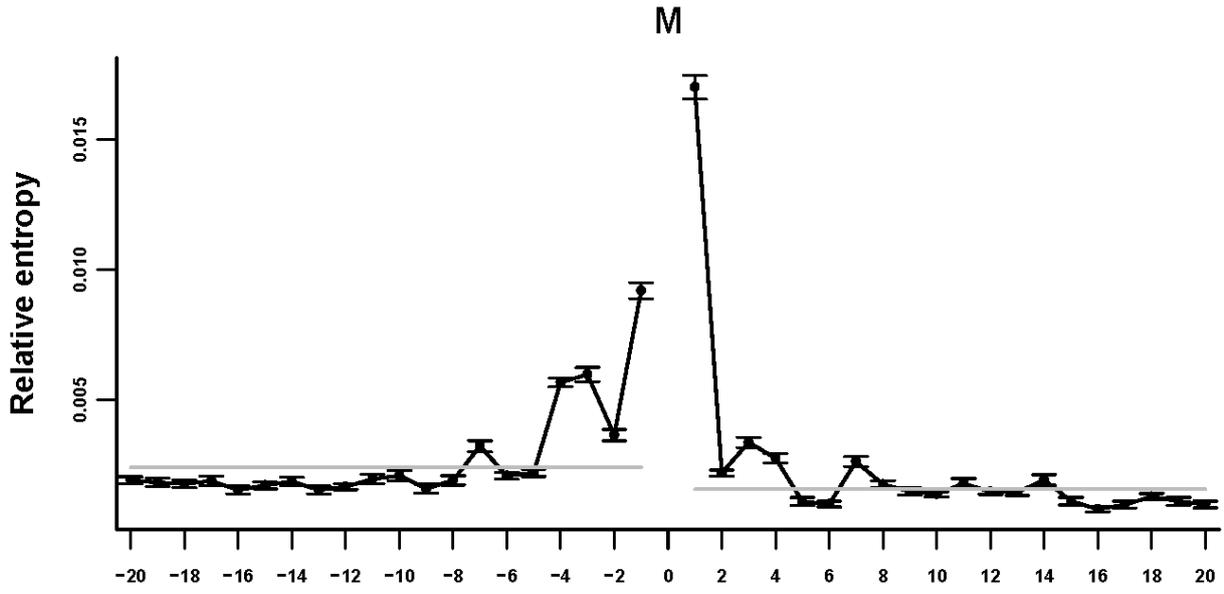
Figure S1. Neighbor preference patterns of the 20 amino acids.

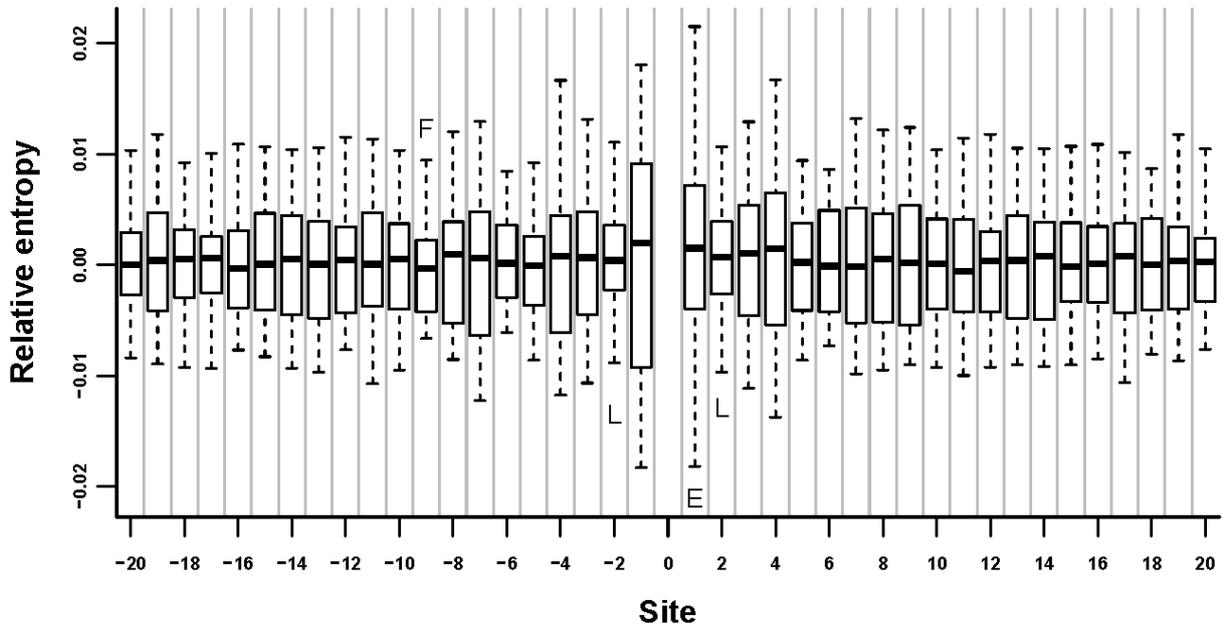
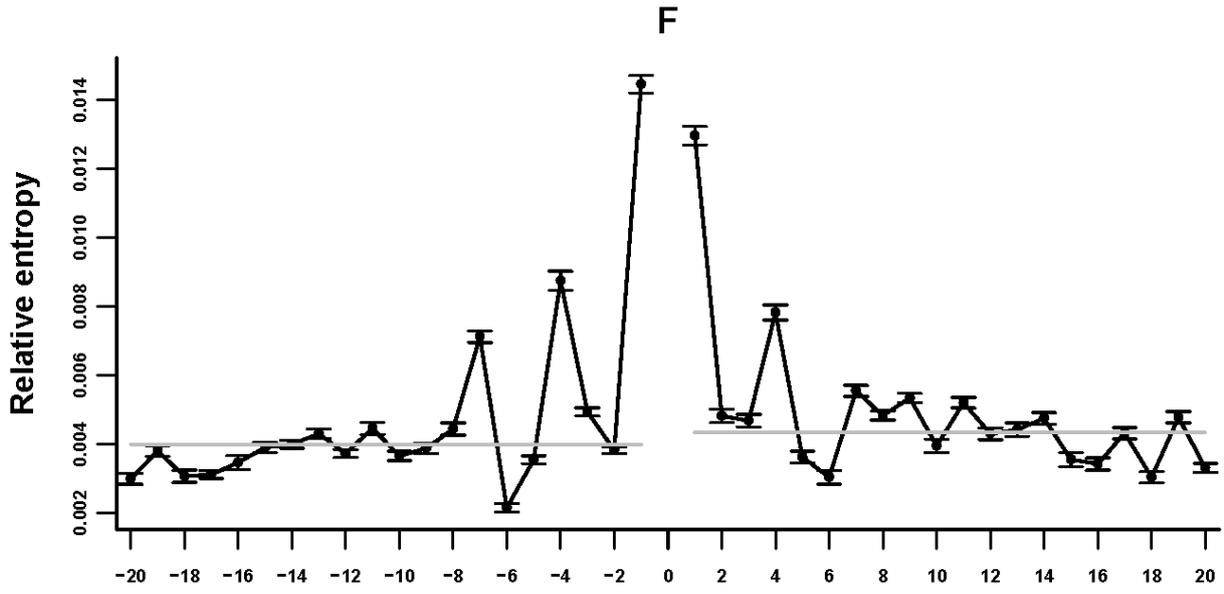


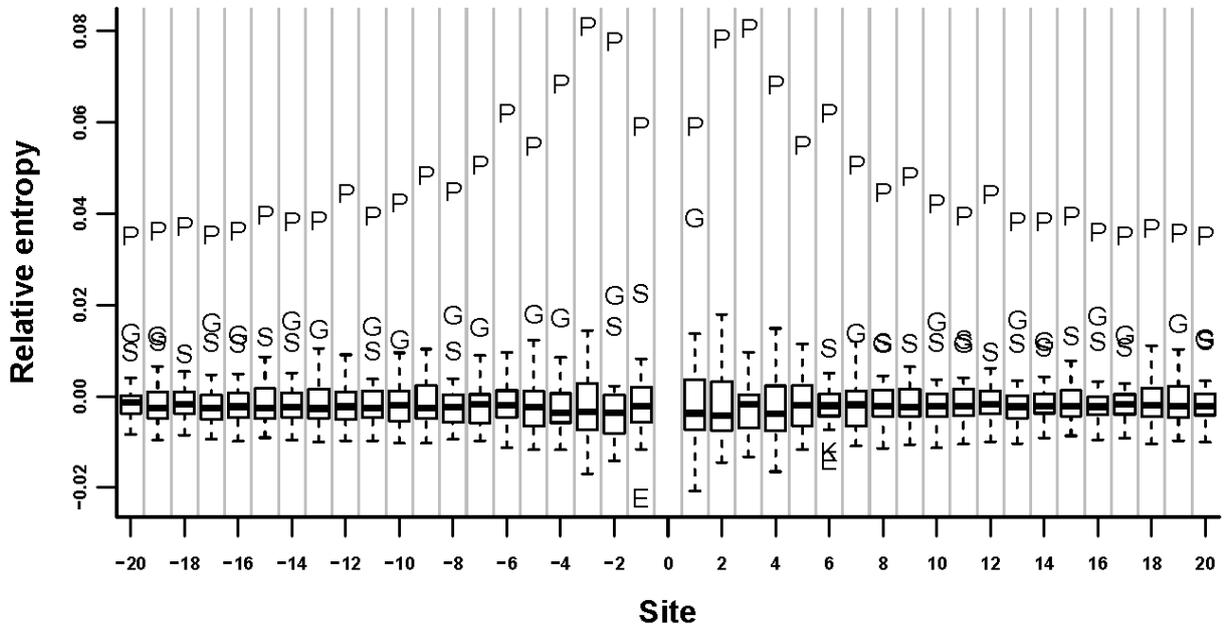
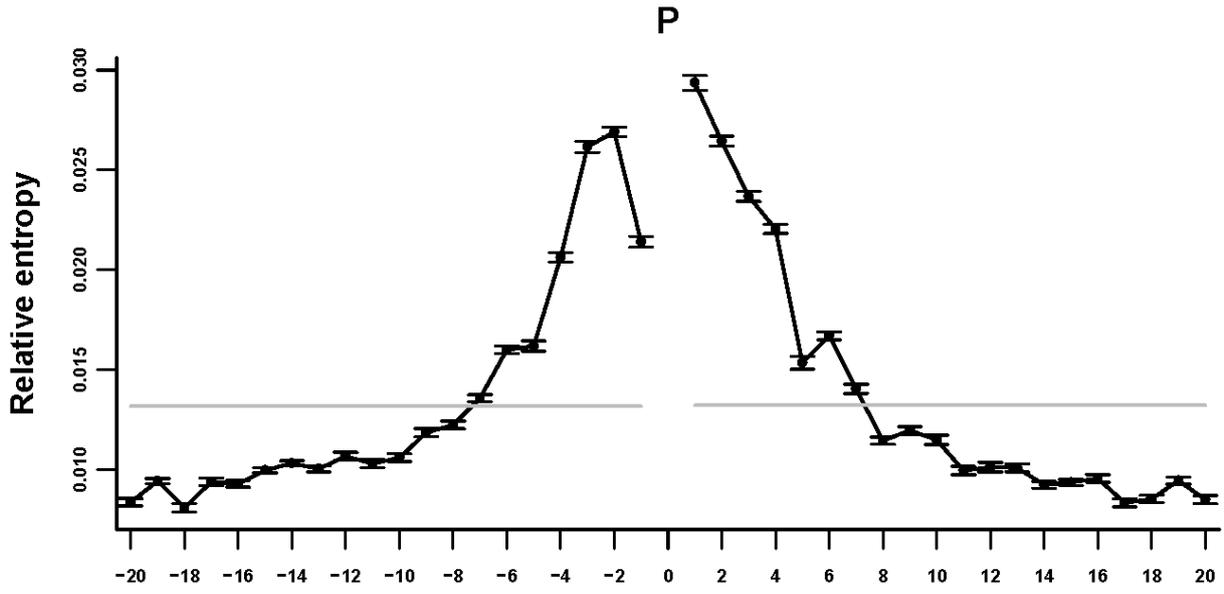


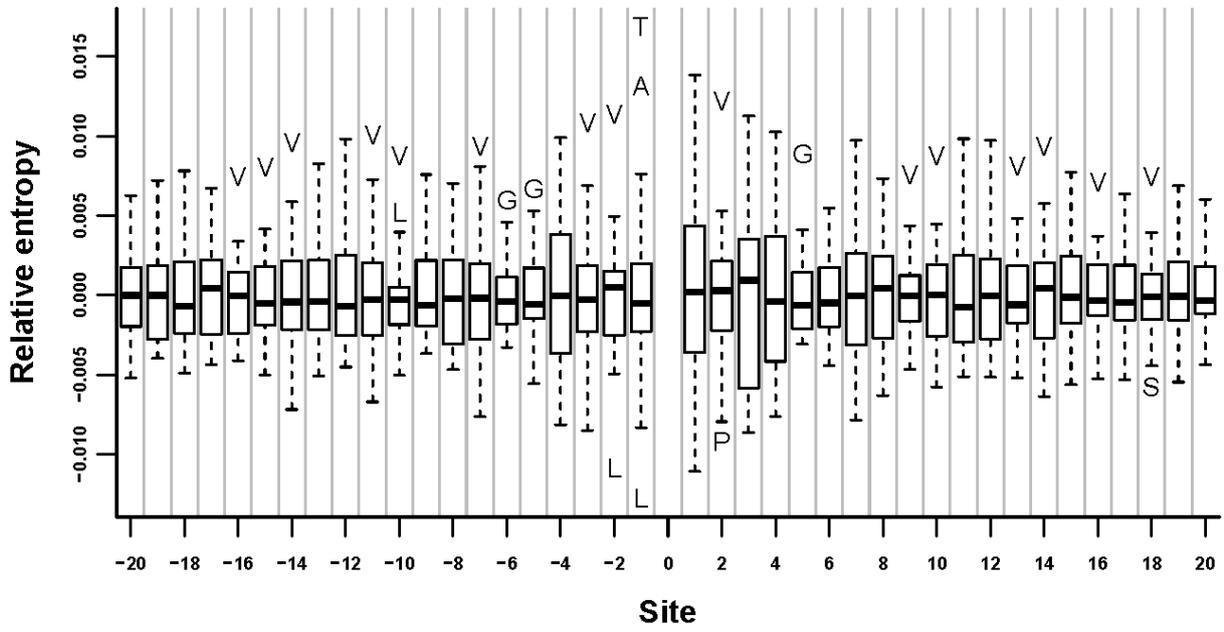
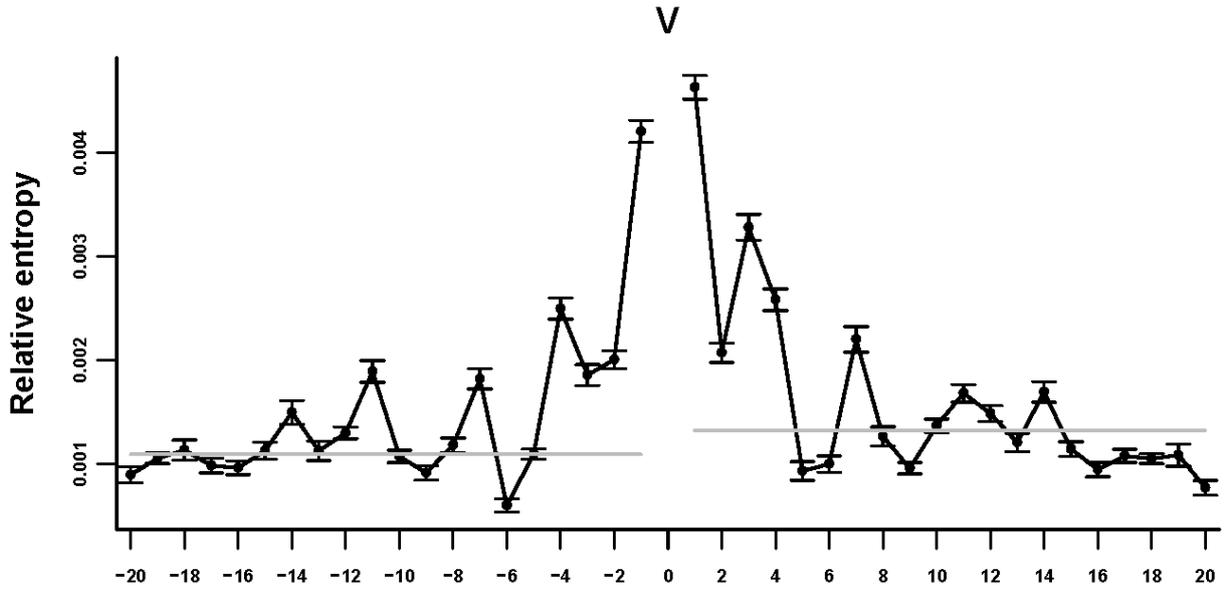


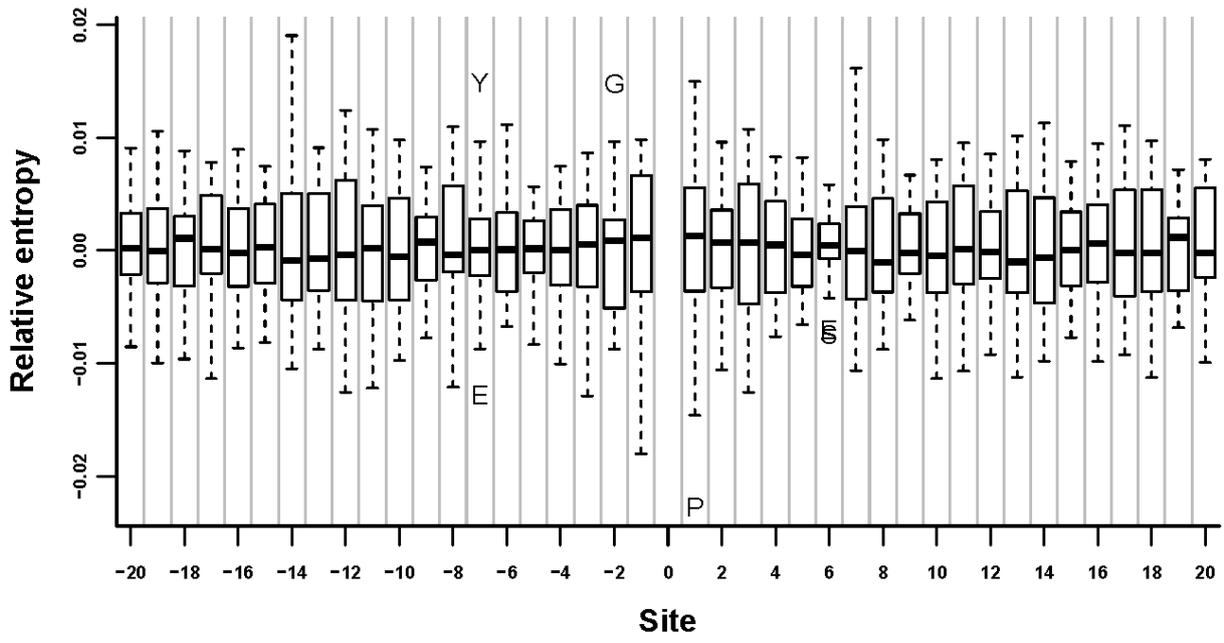
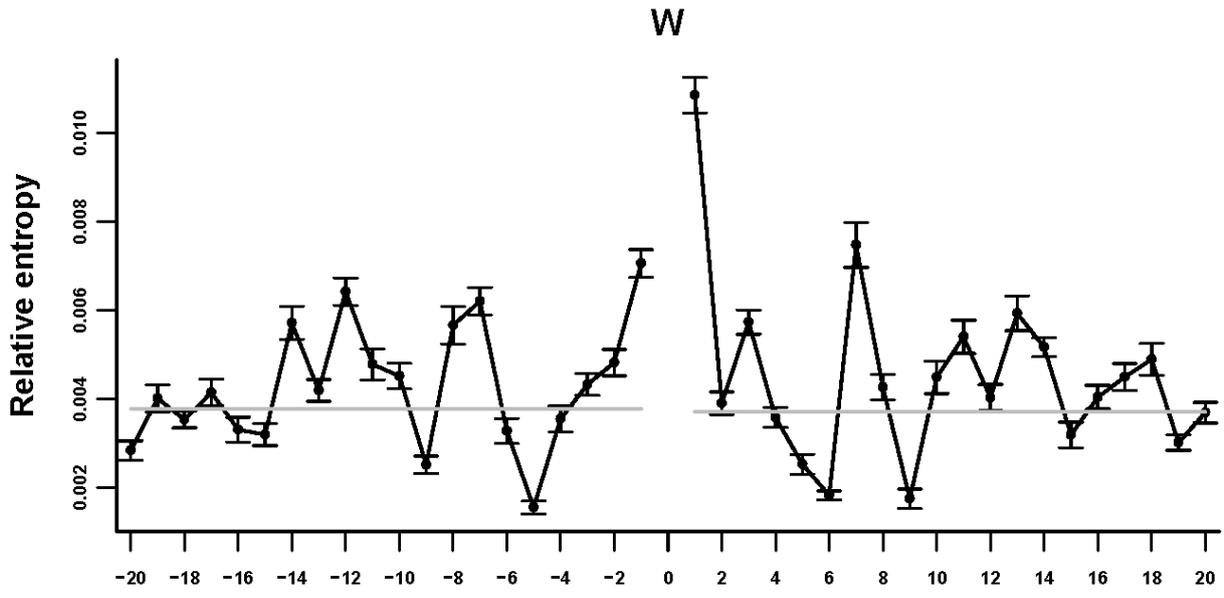


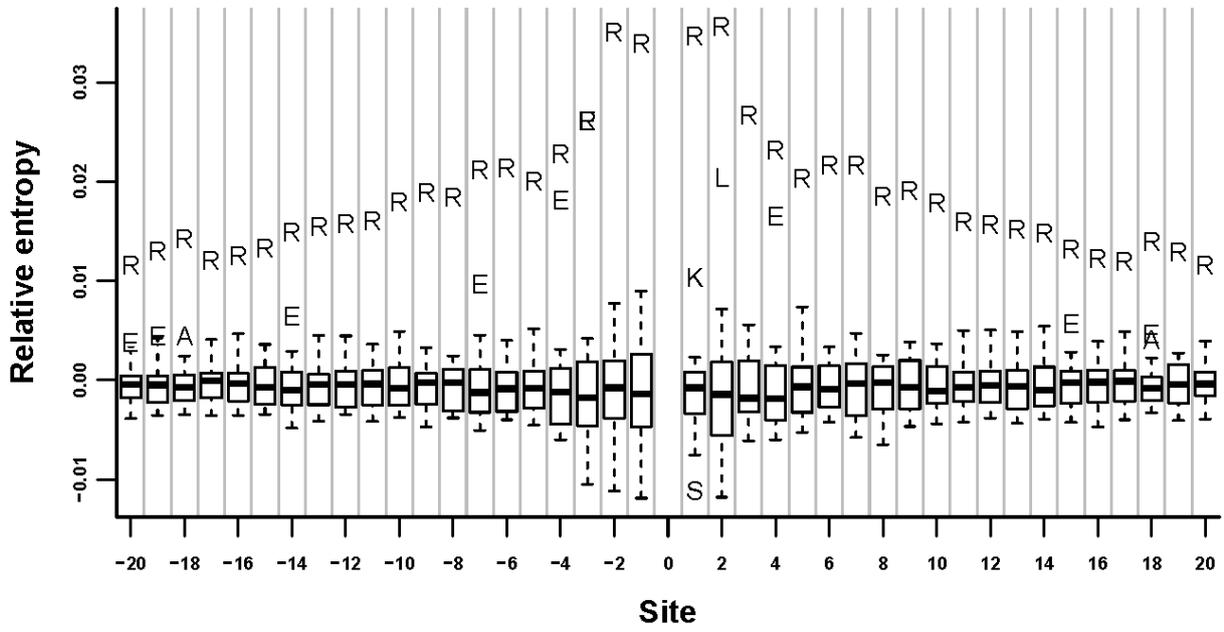
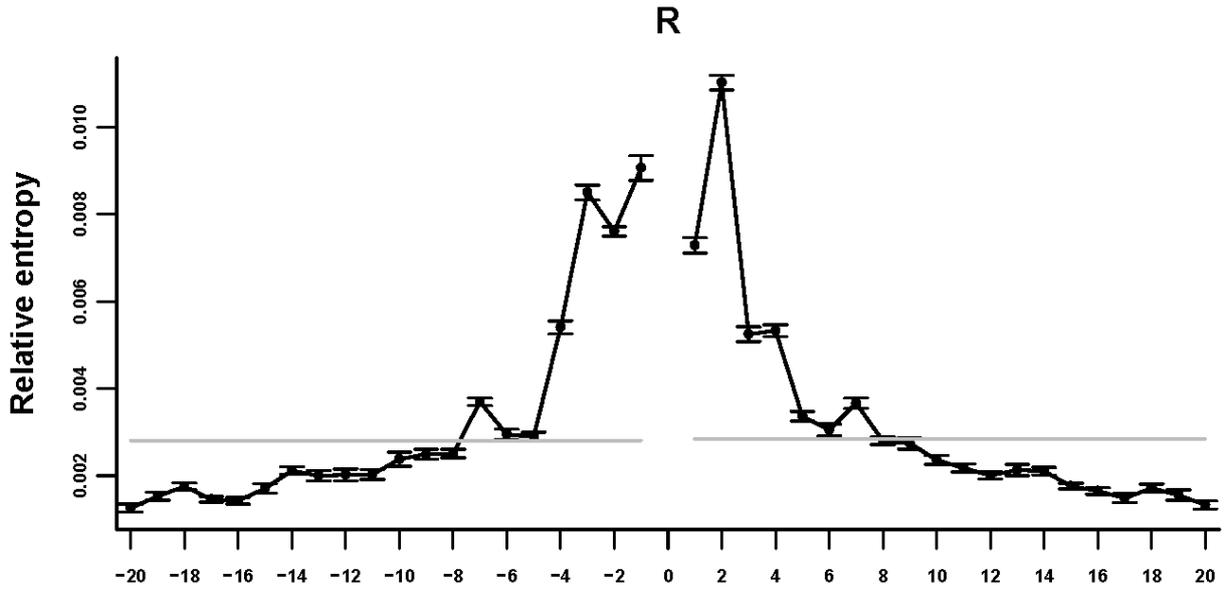


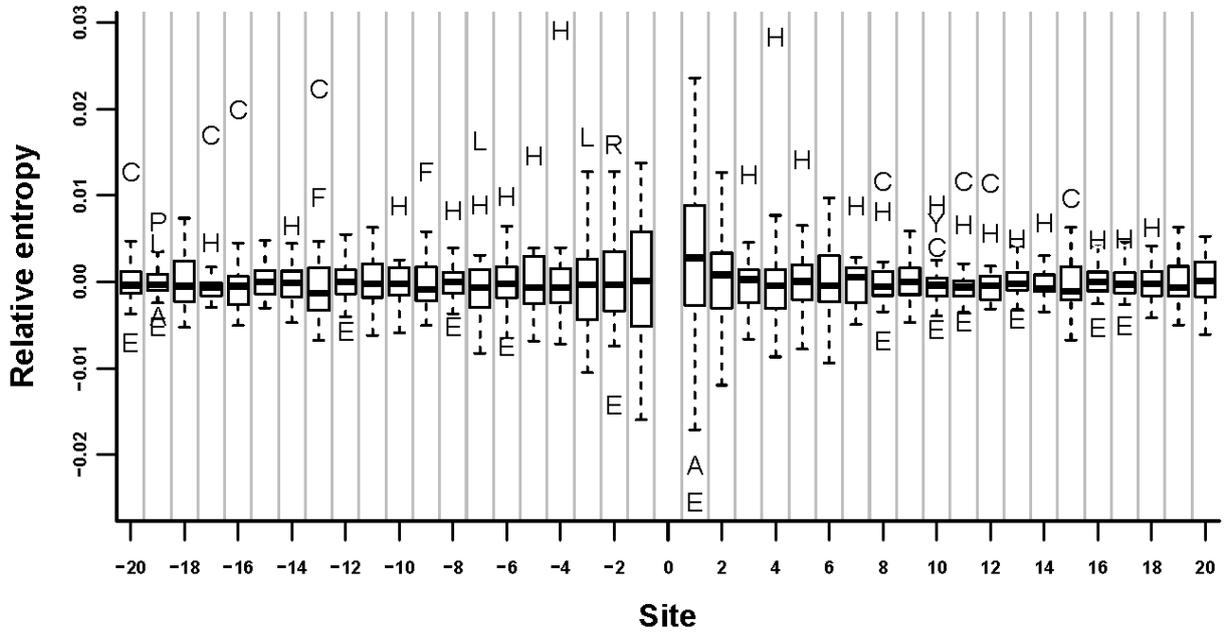
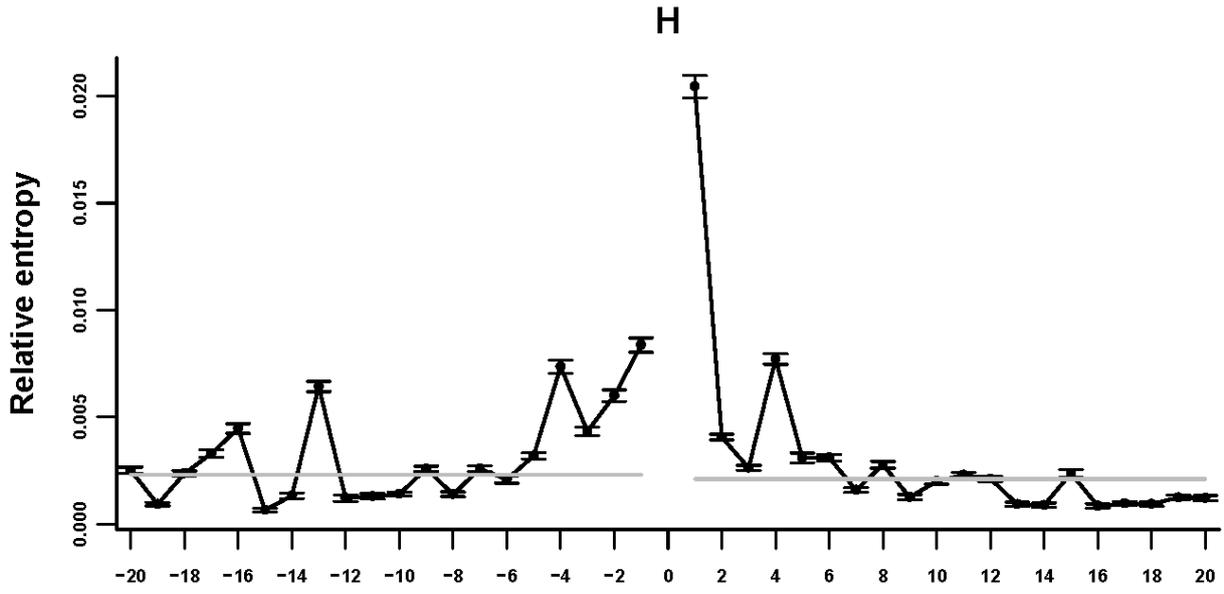


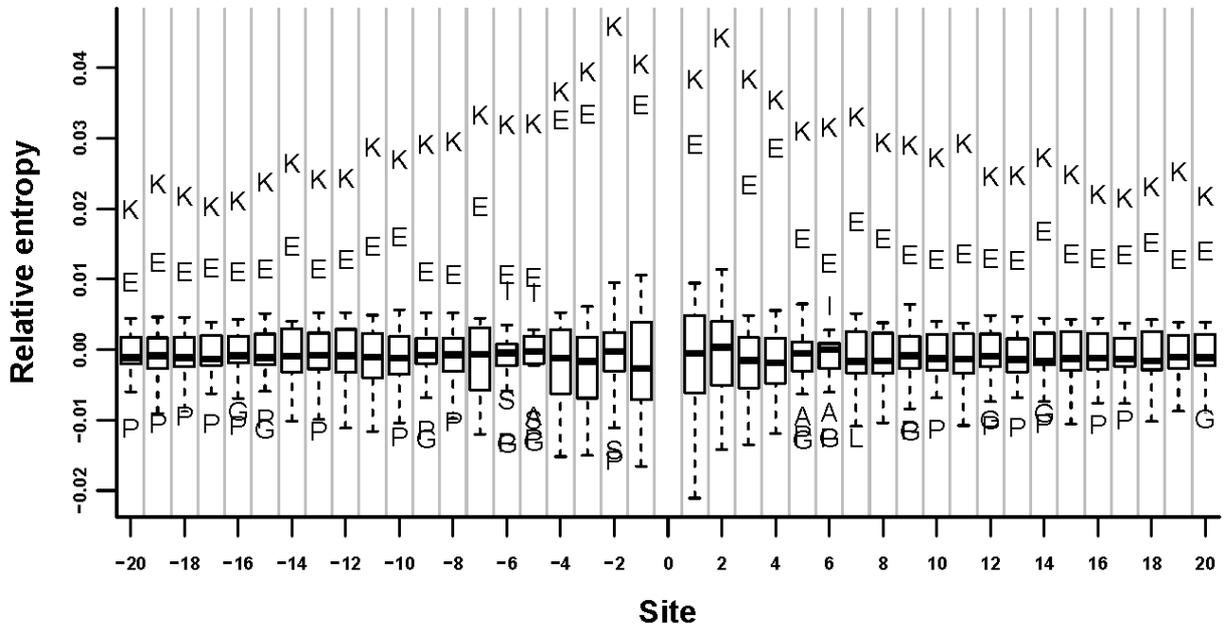
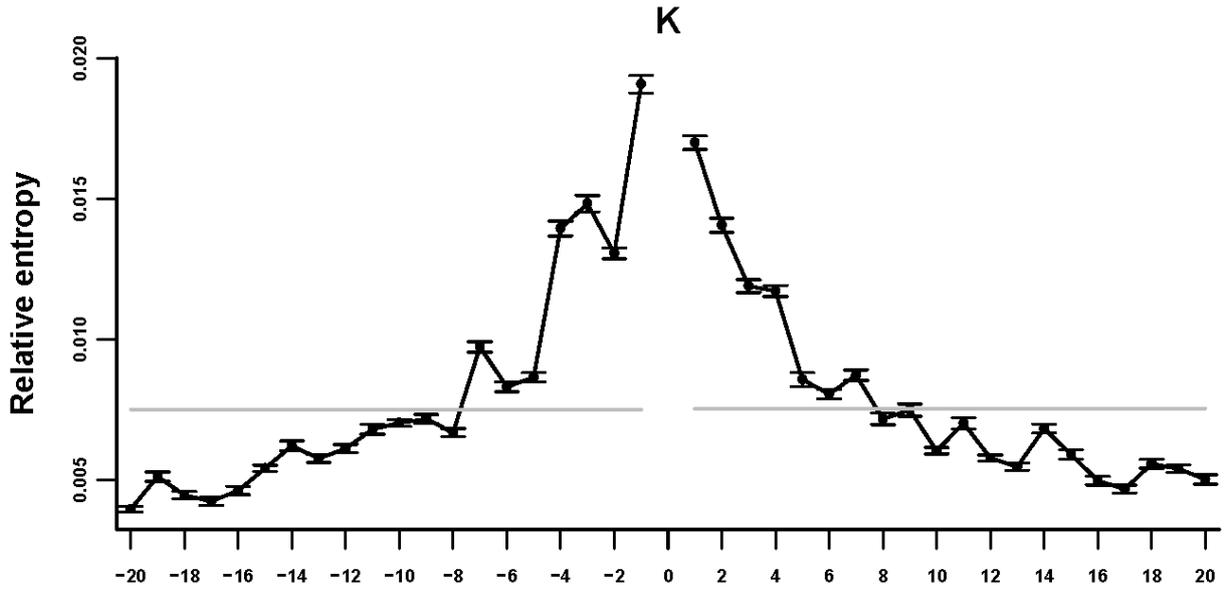


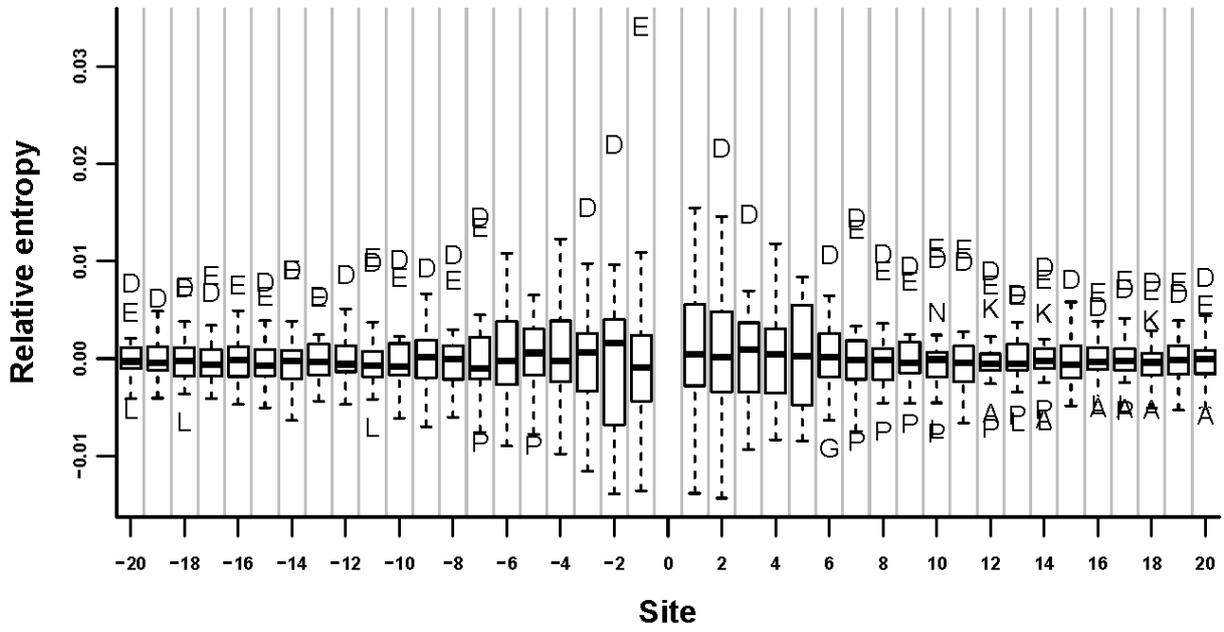
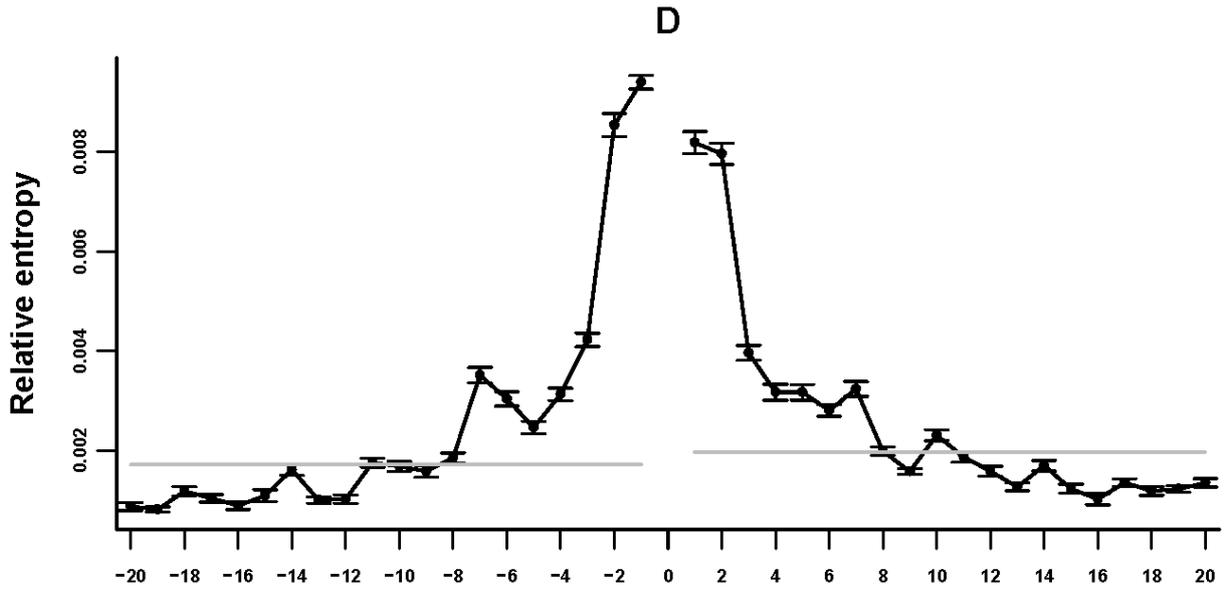


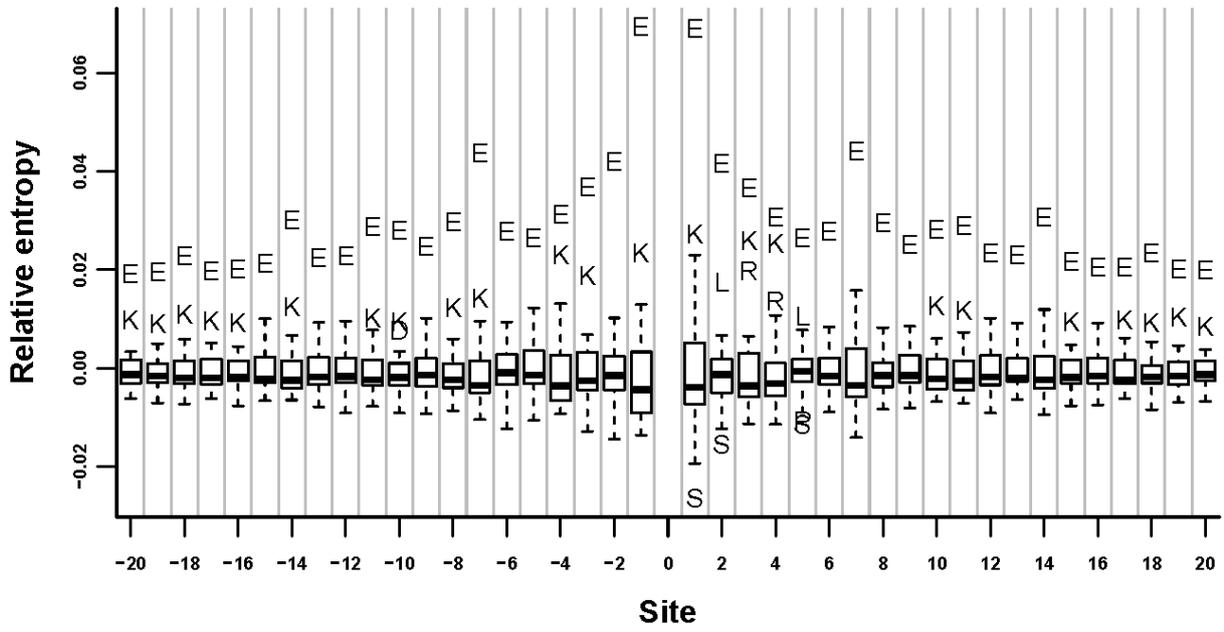
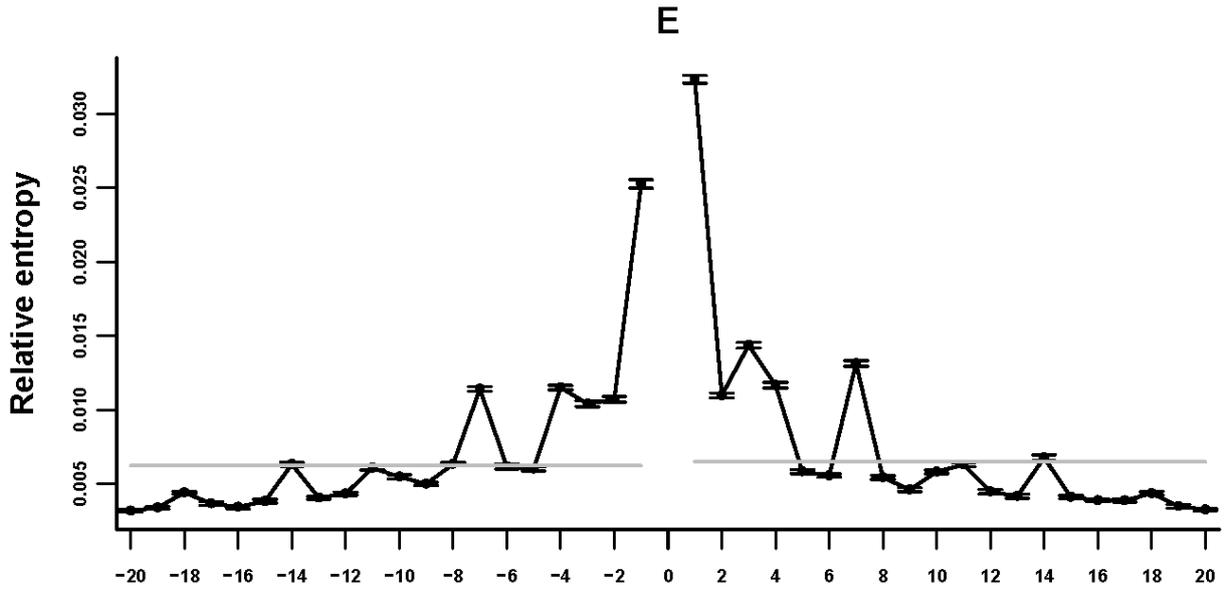


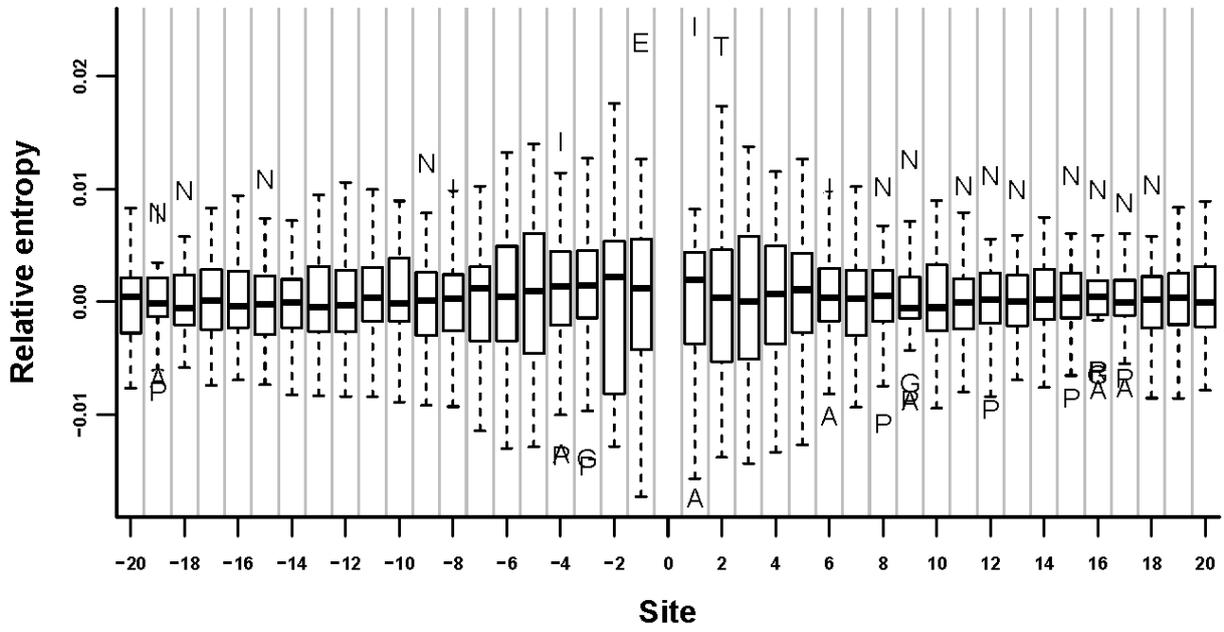
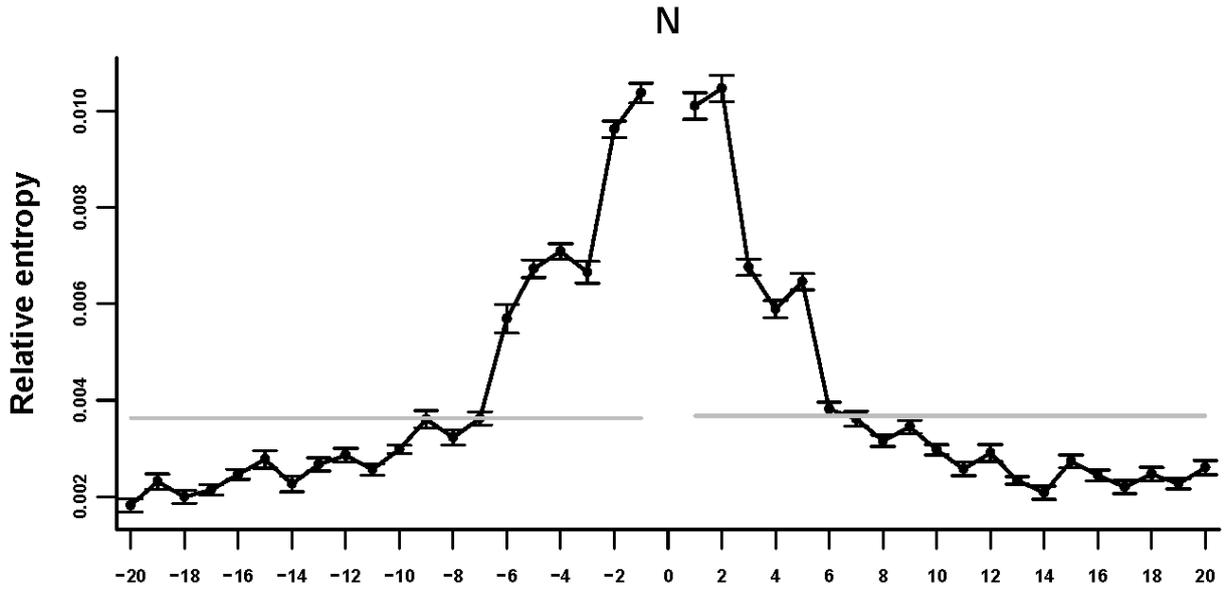


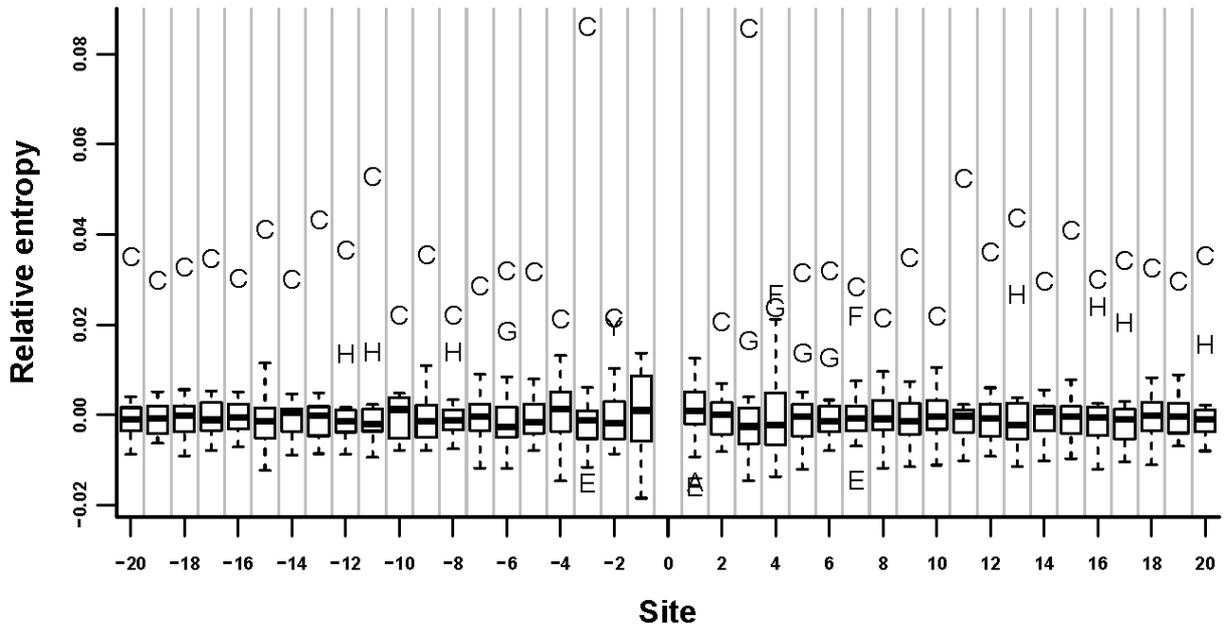
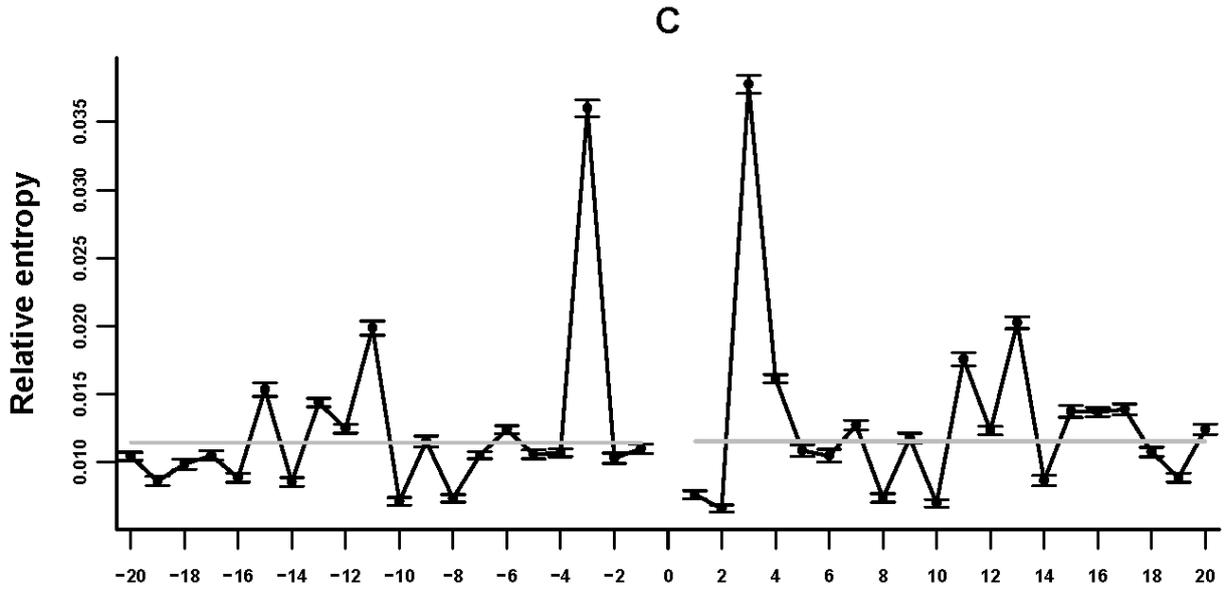


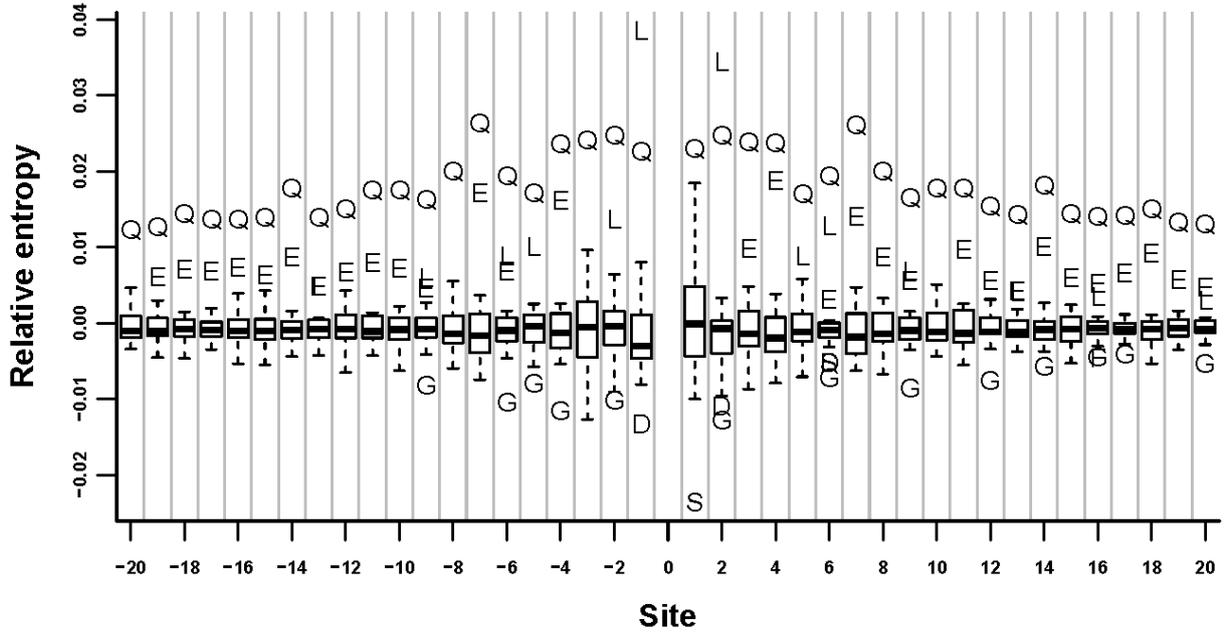
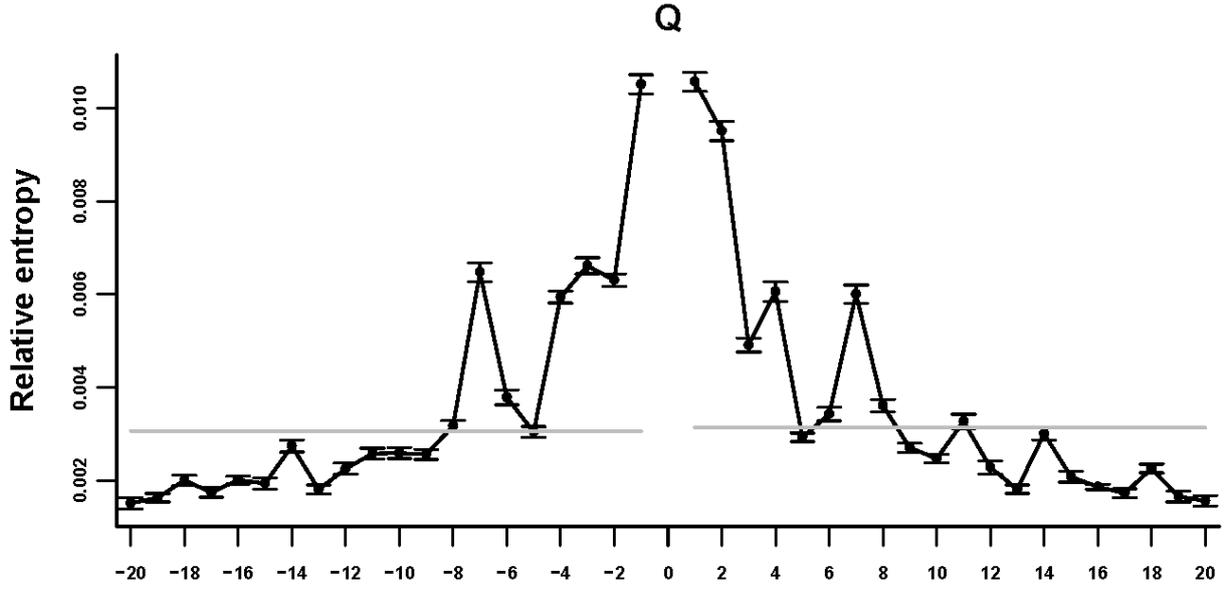


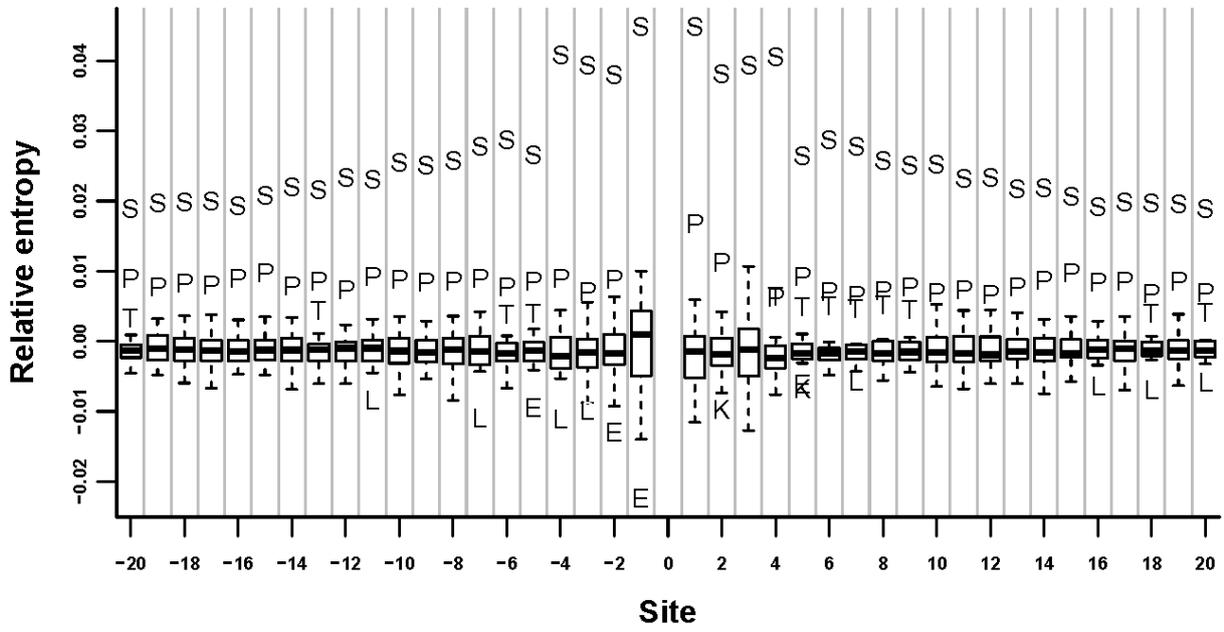
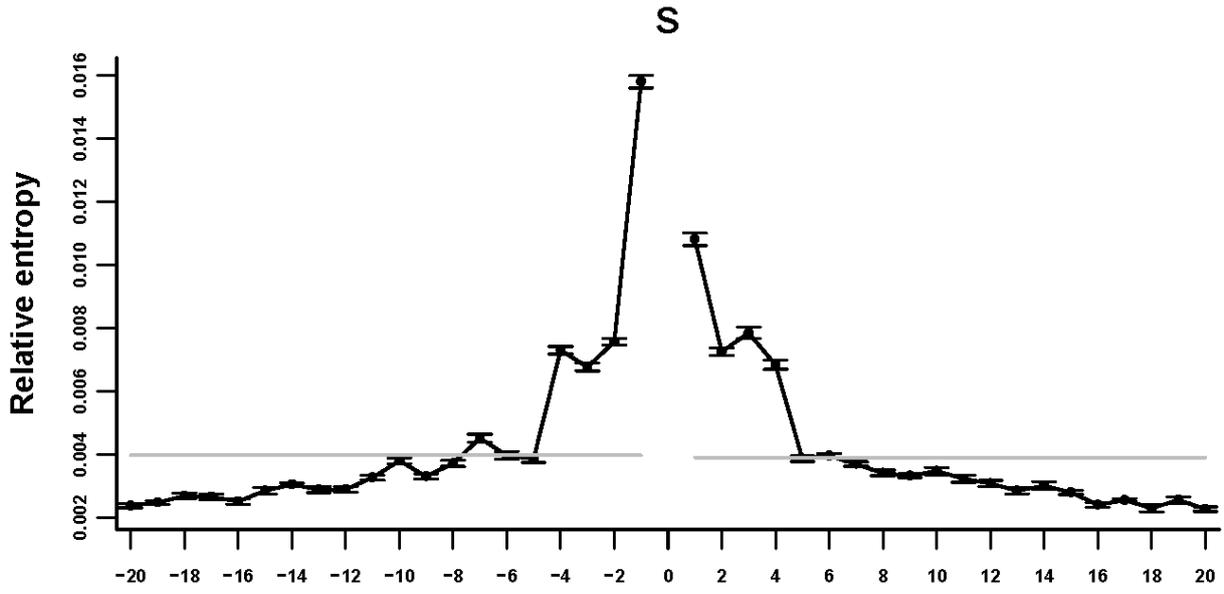


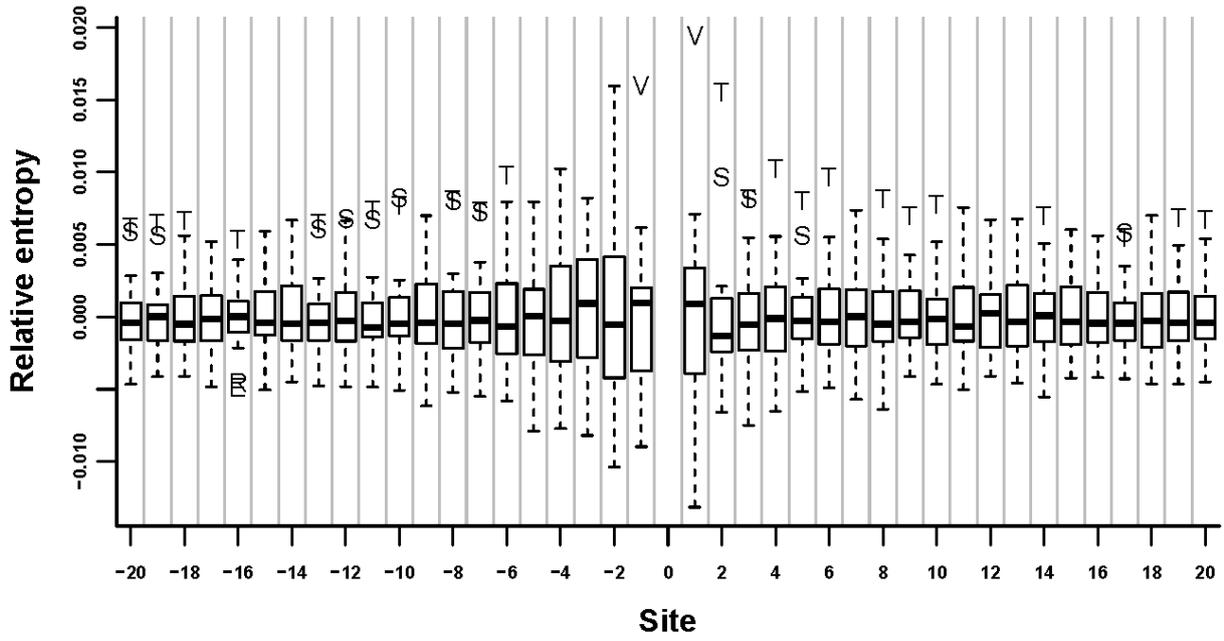
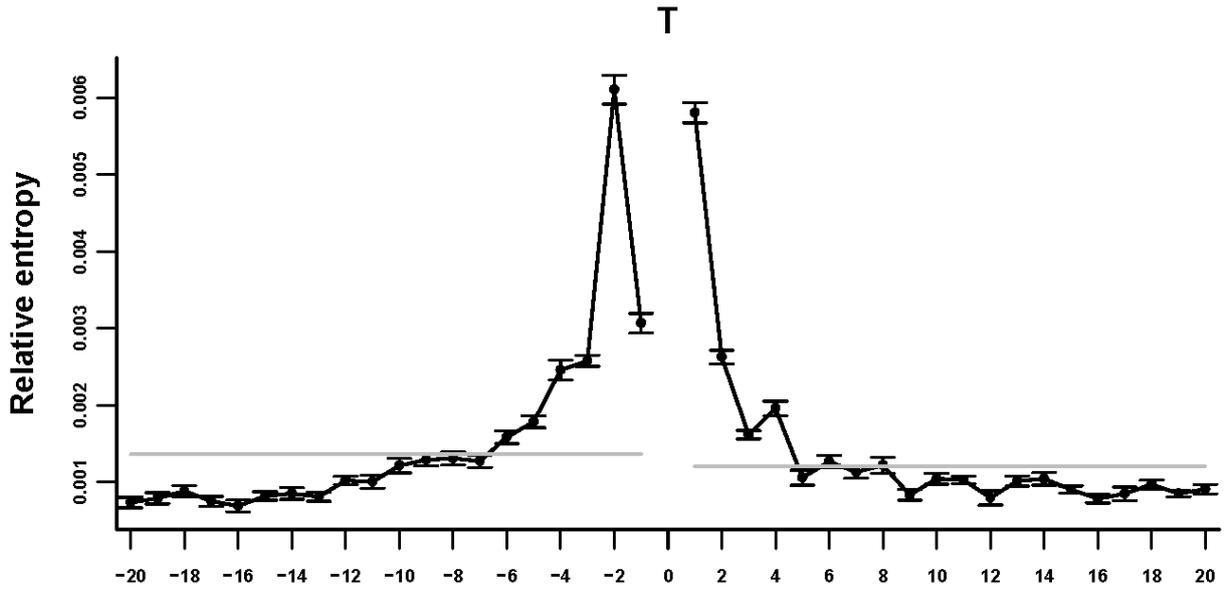












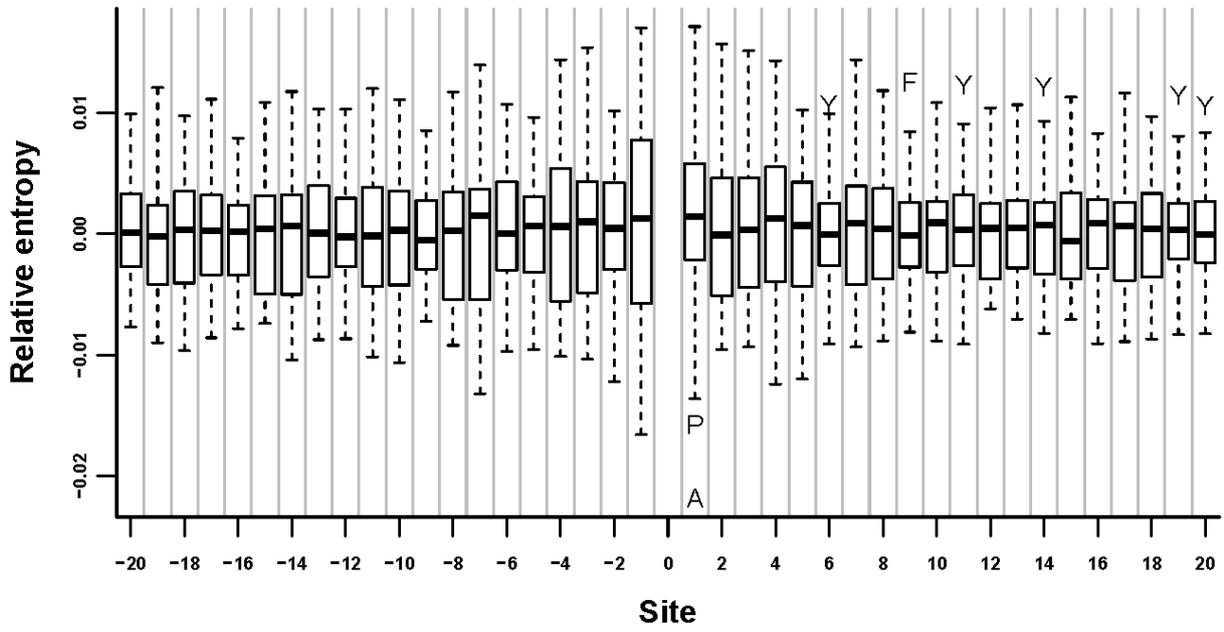
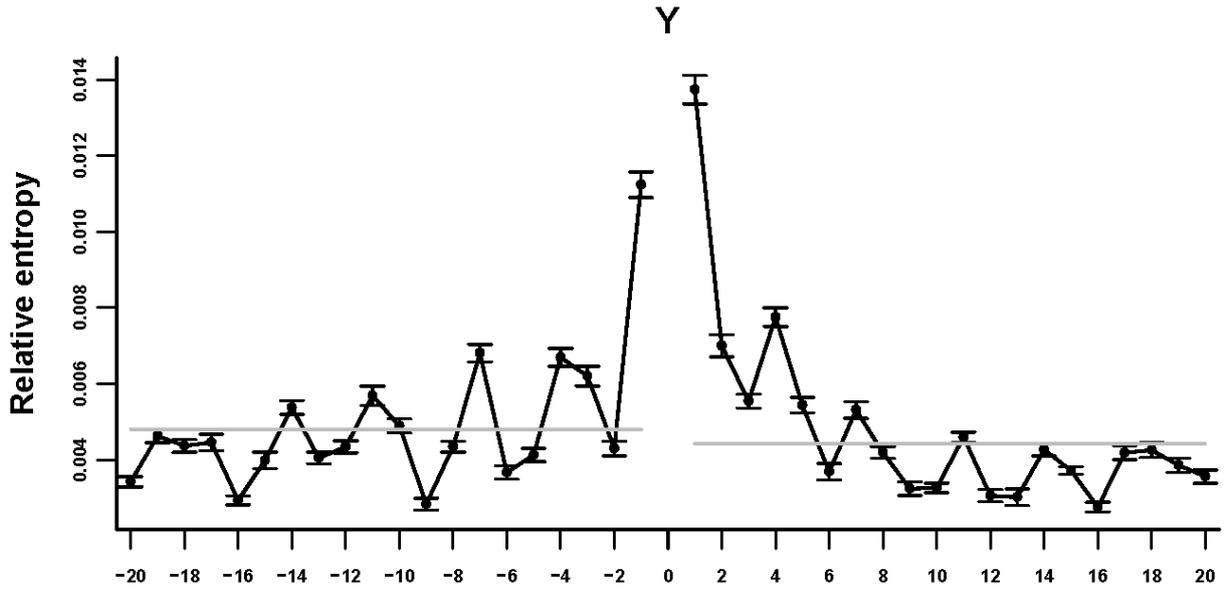
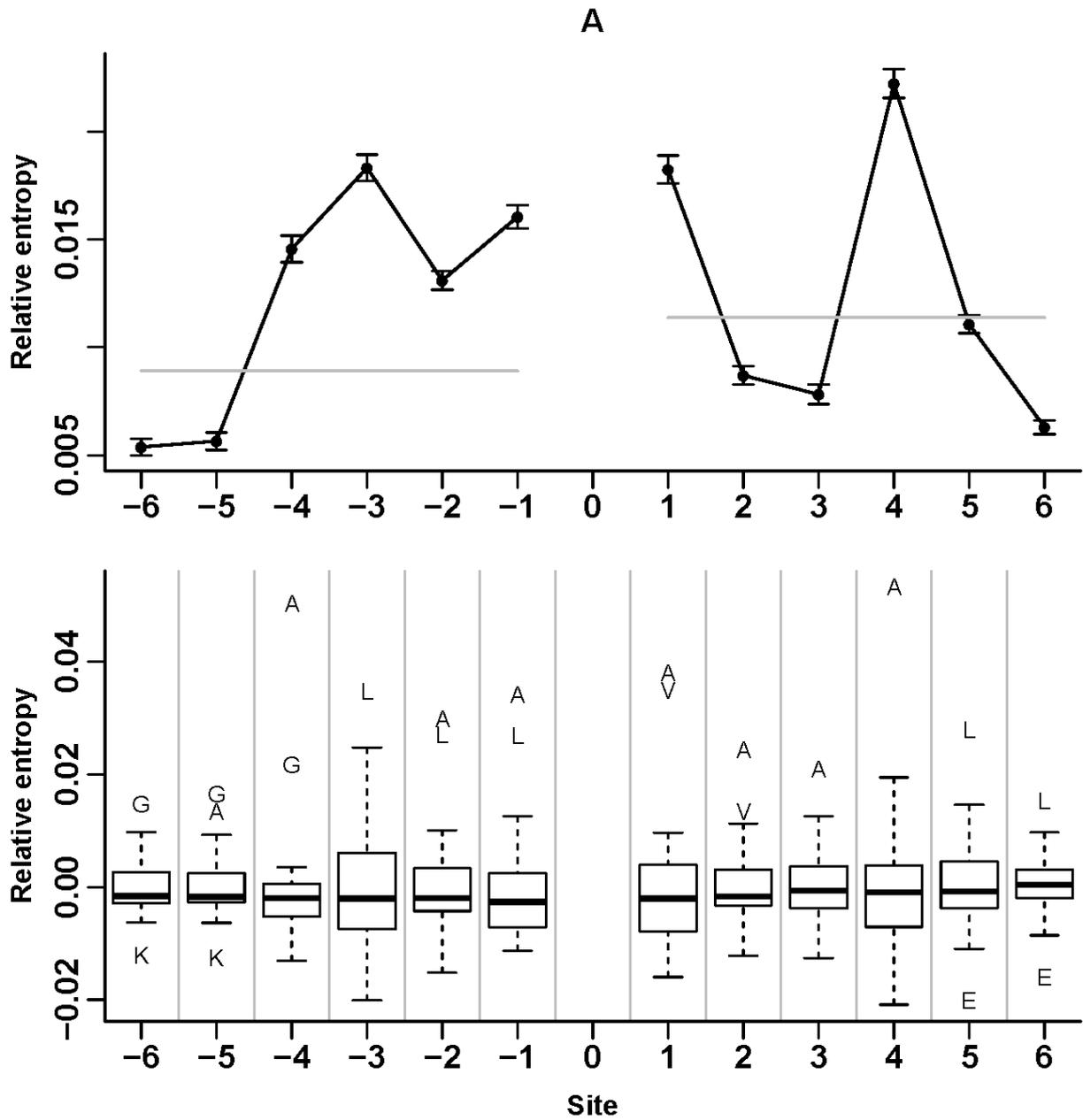
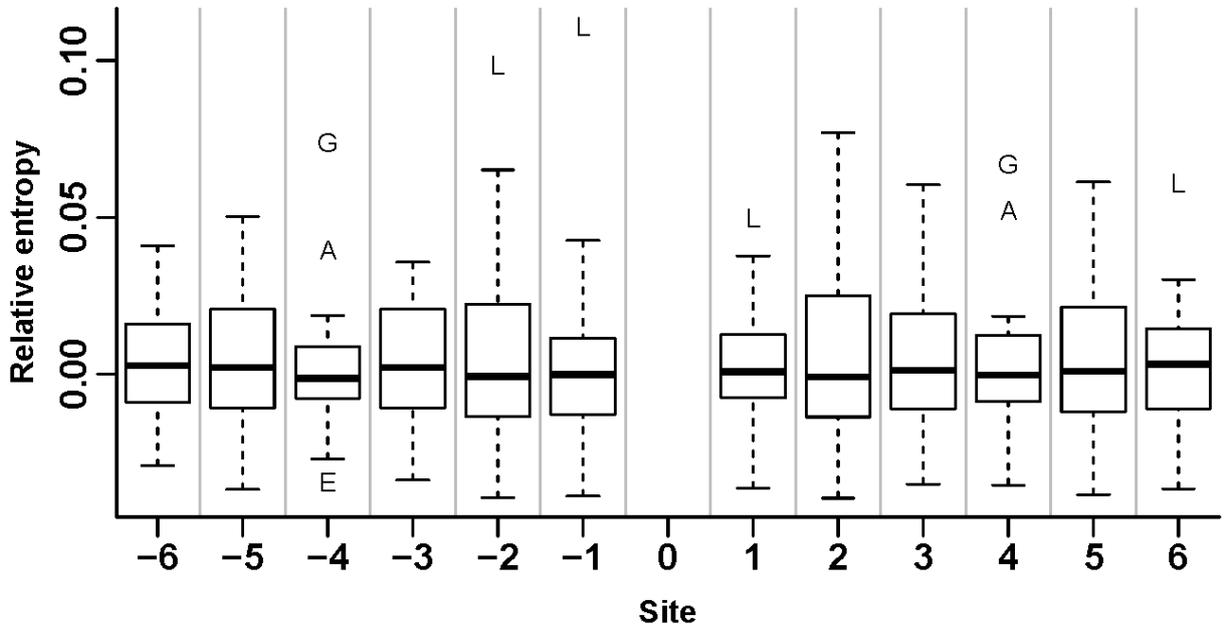
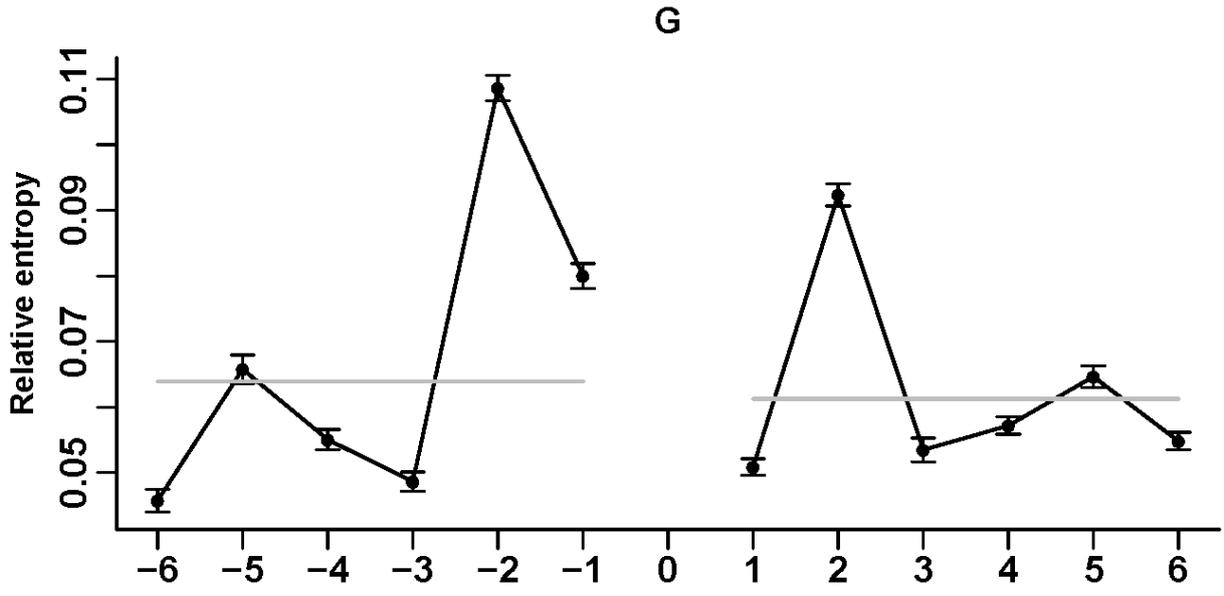
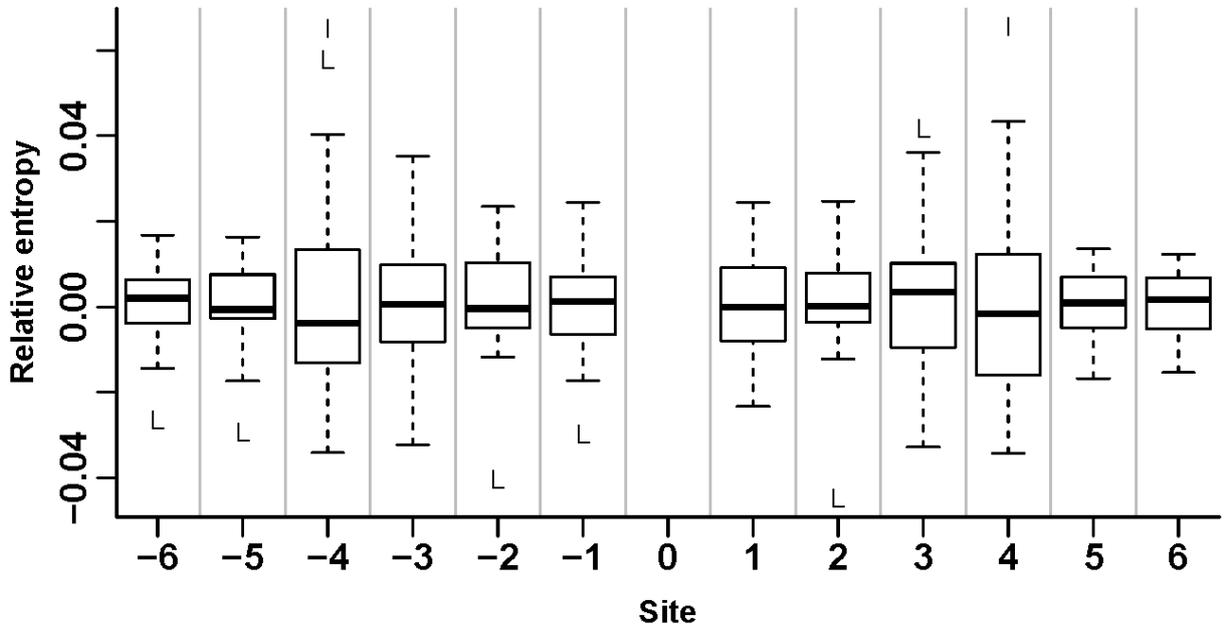
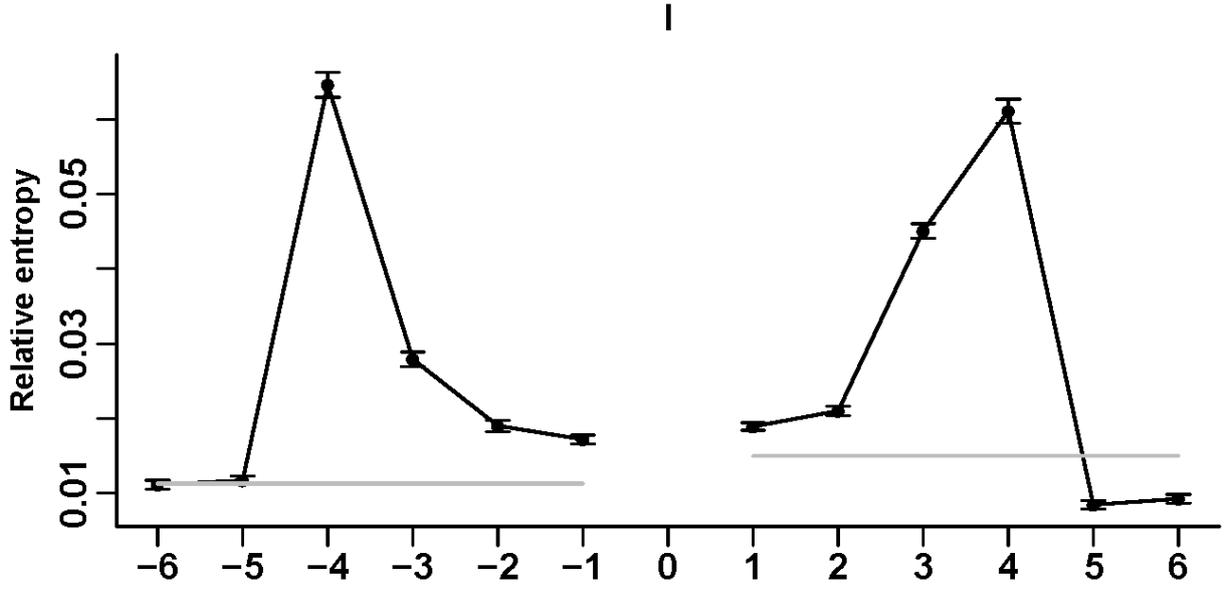
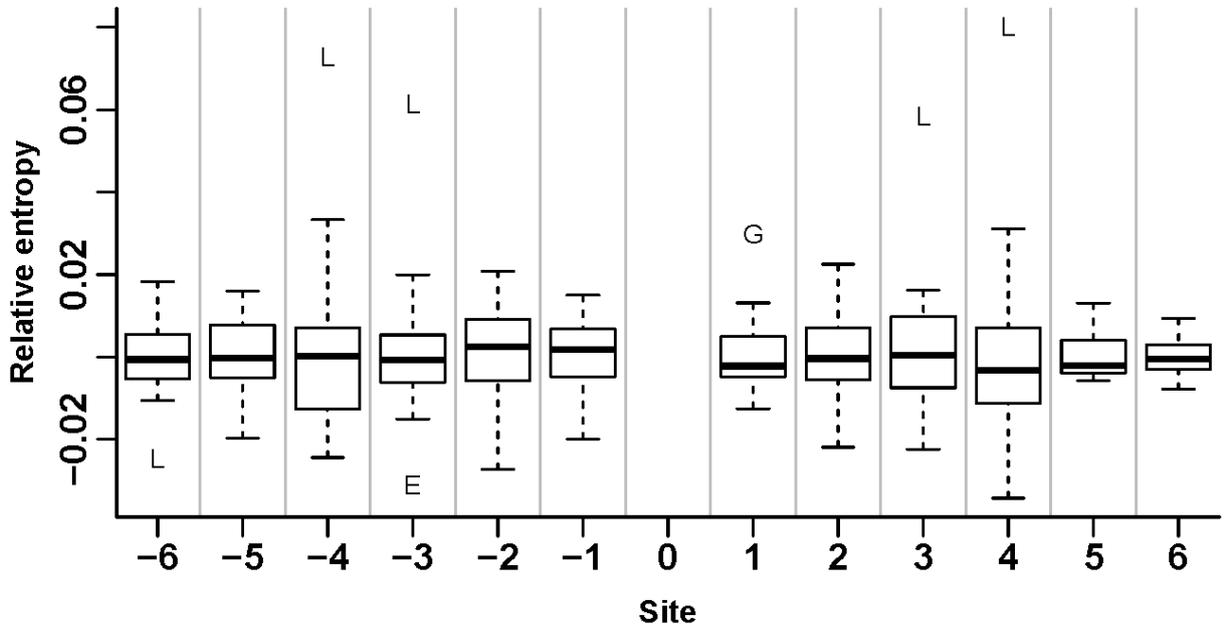
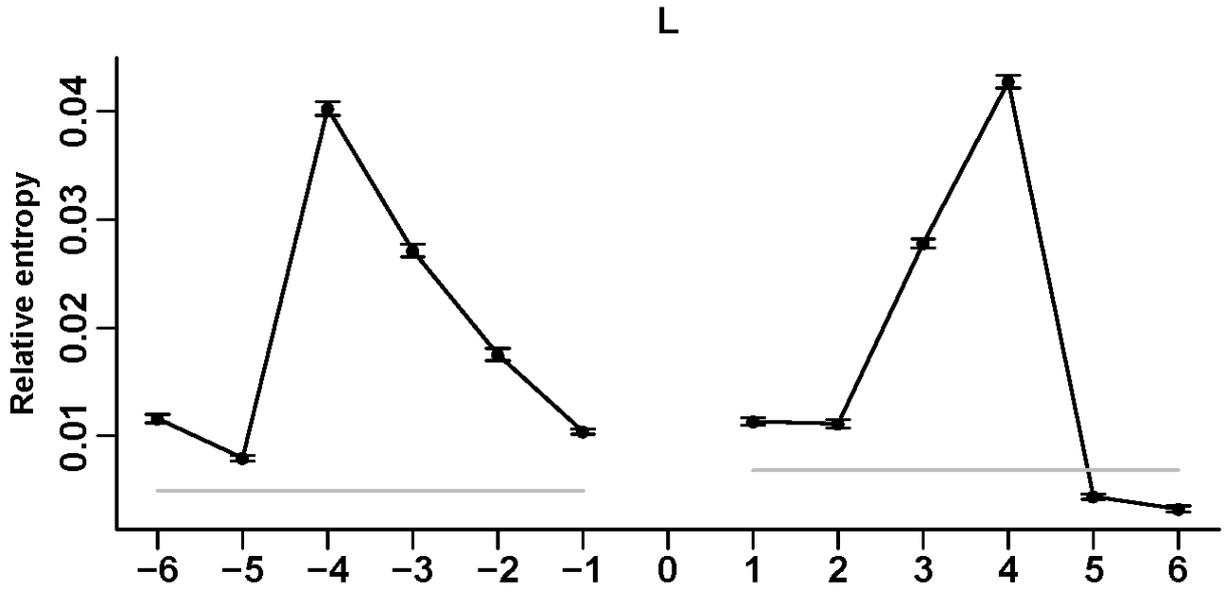


Figure S2. Neighbor preference patterns of the 20 amino acids in  $\alpha$ -helix.

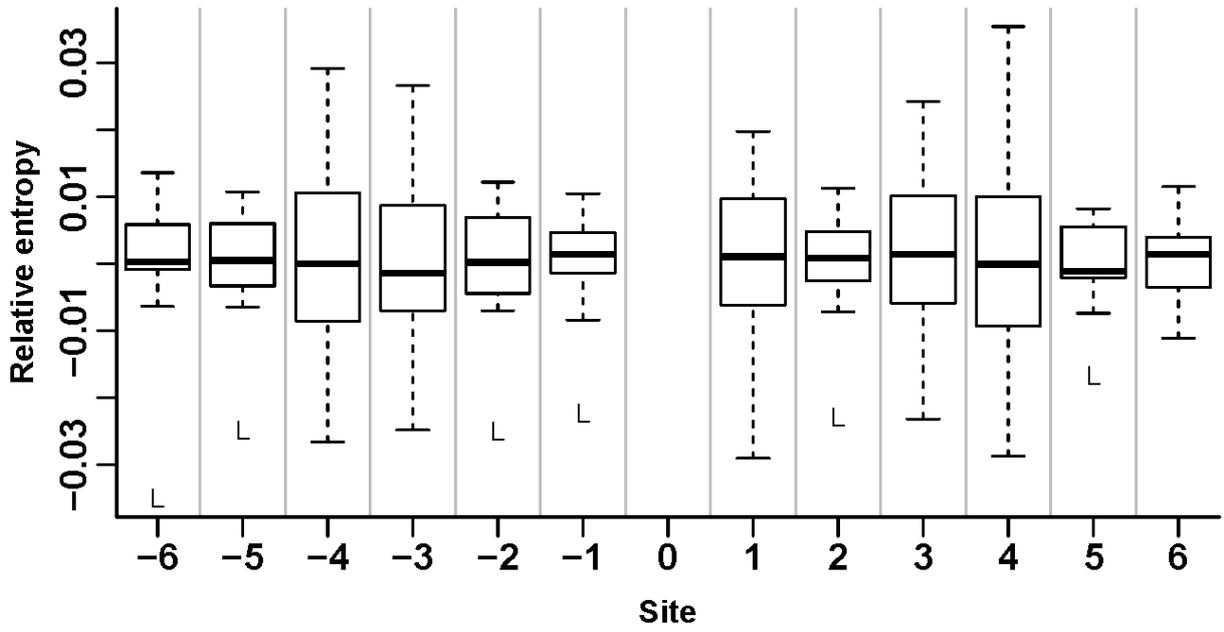
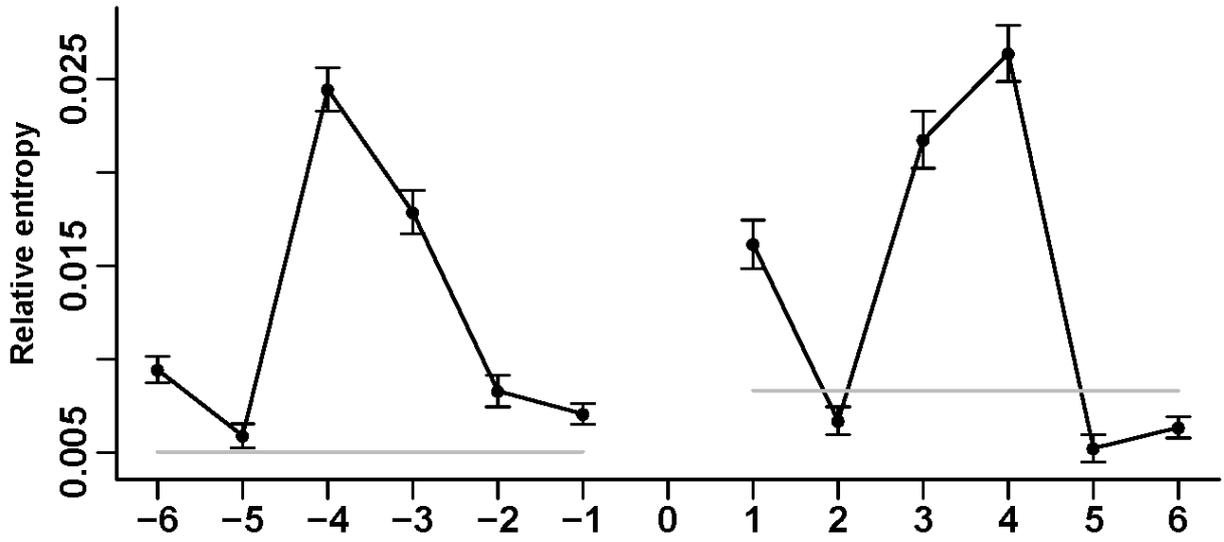


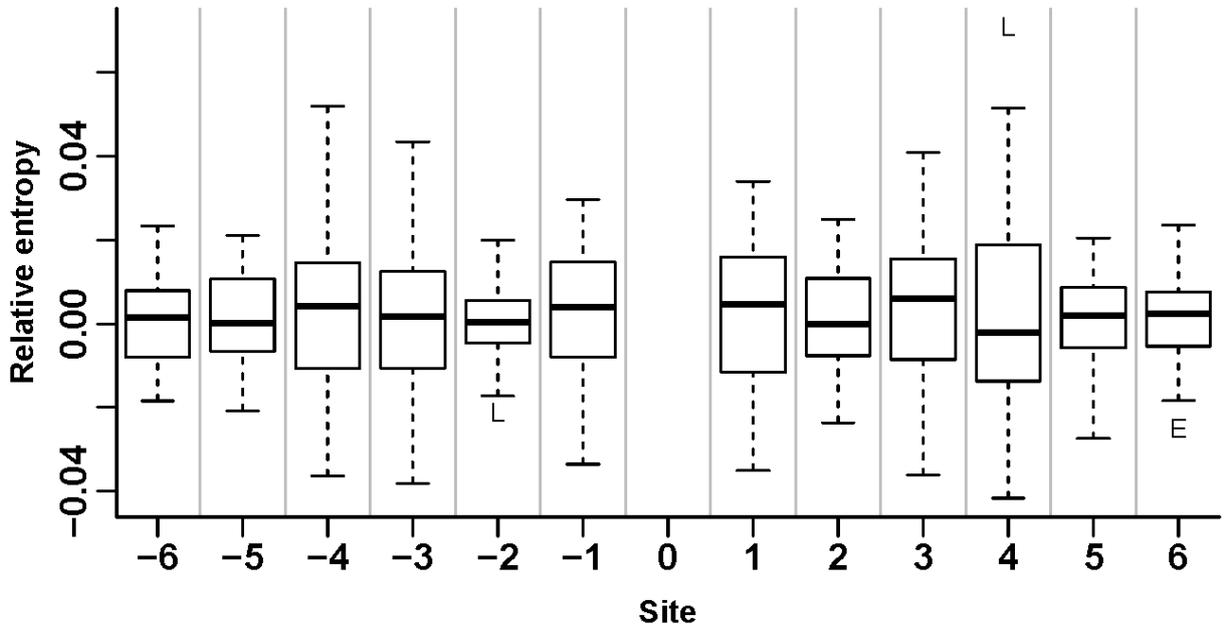
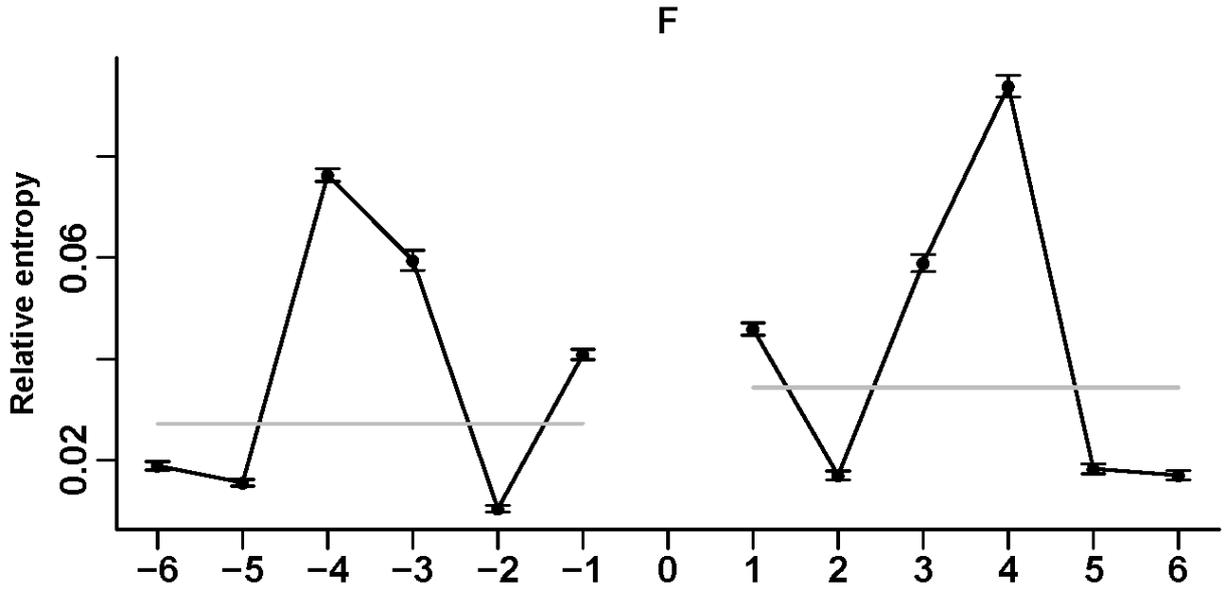


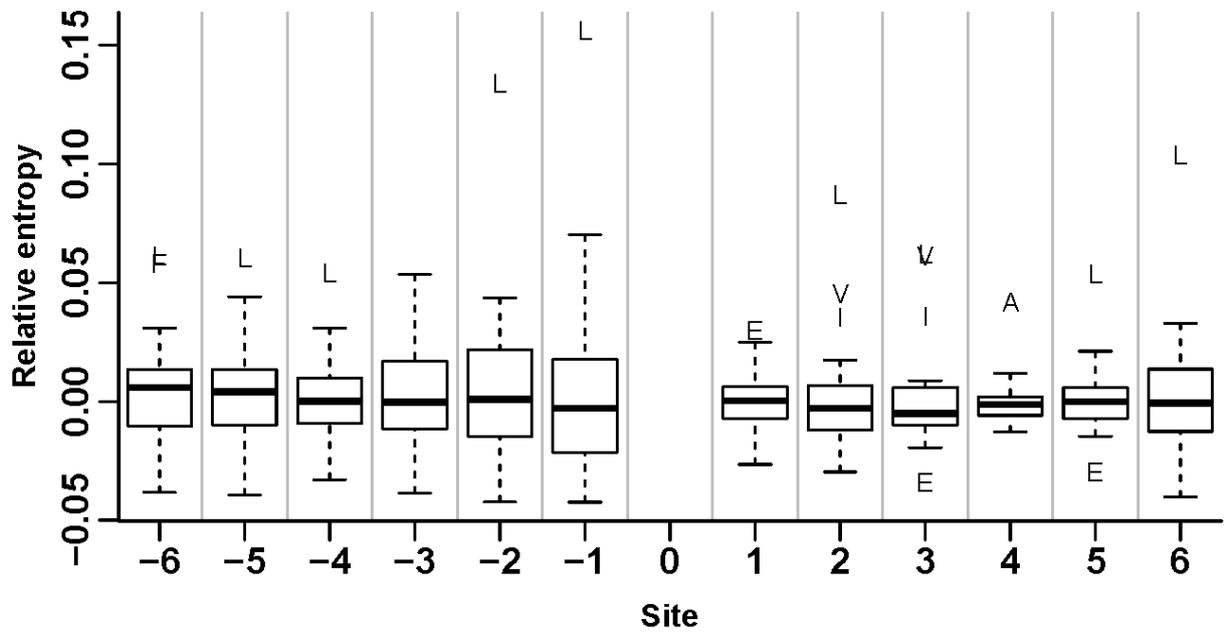
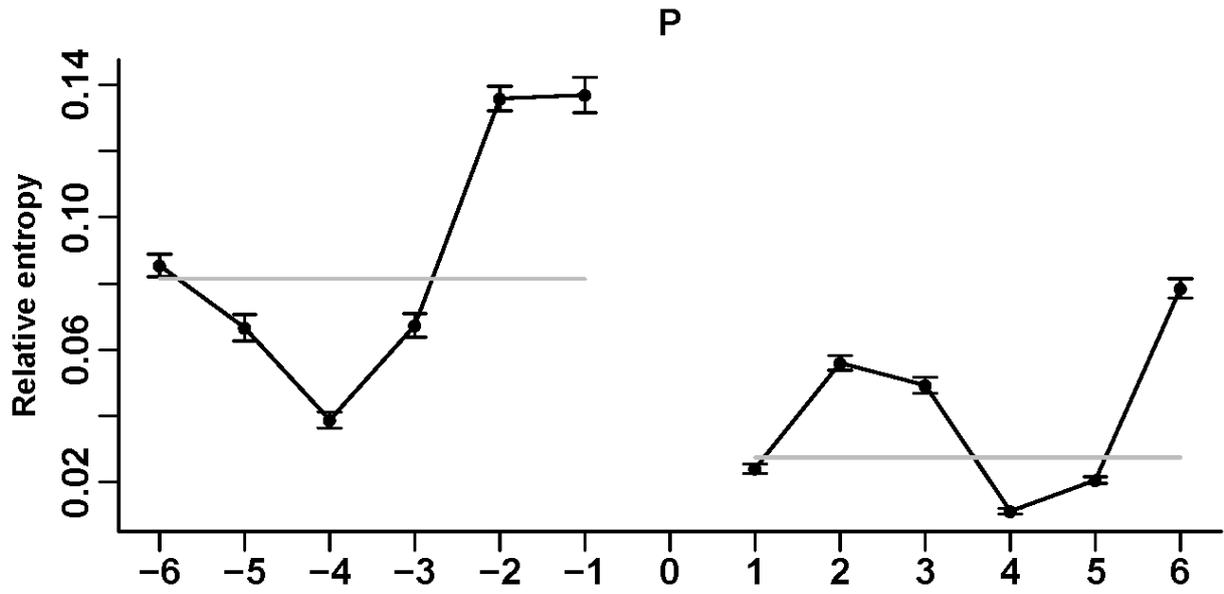


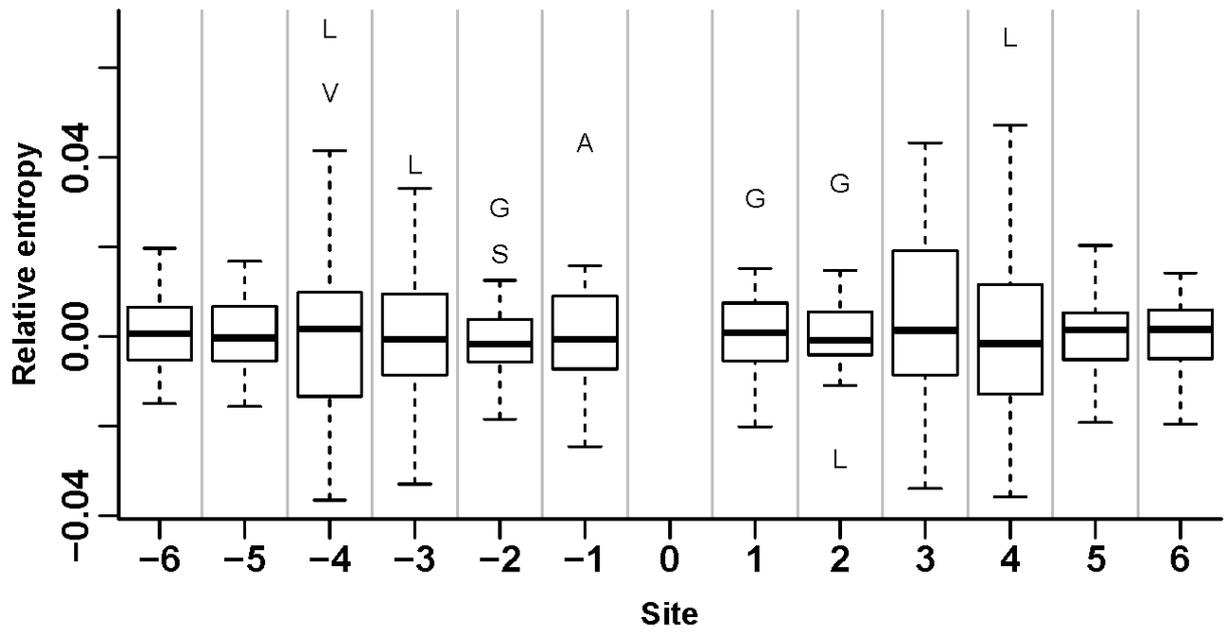
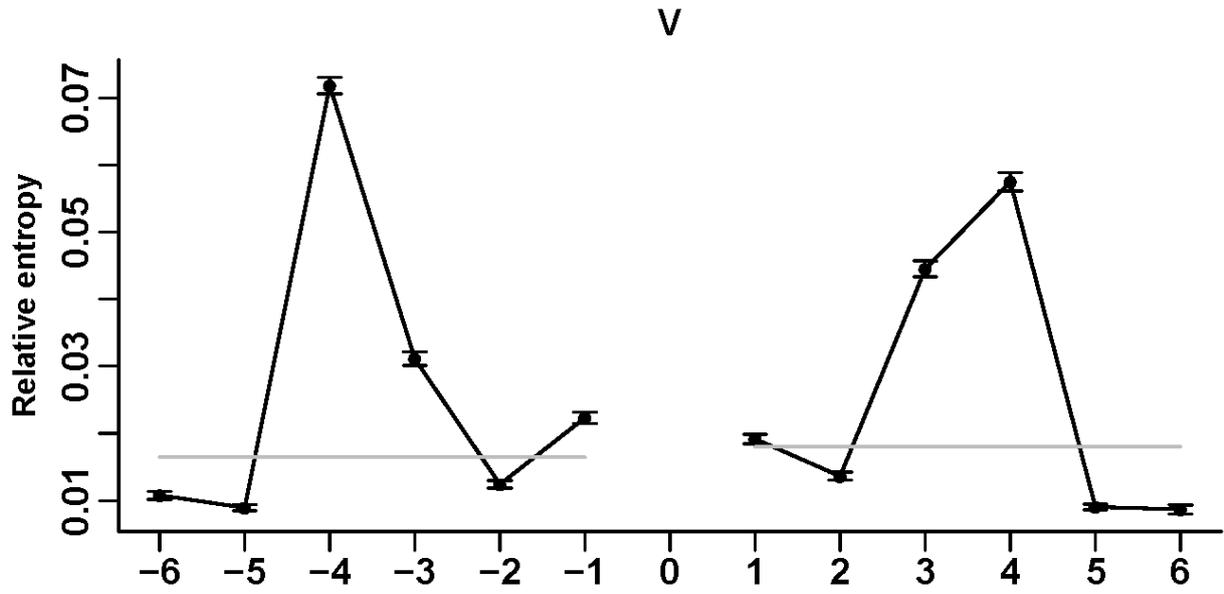


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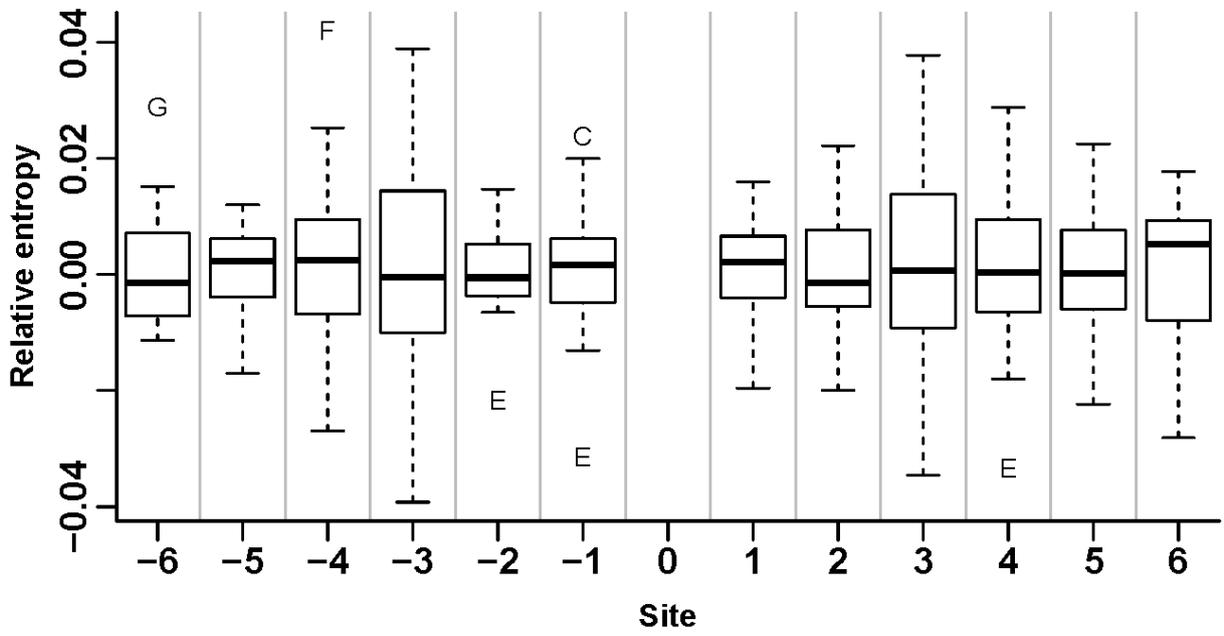
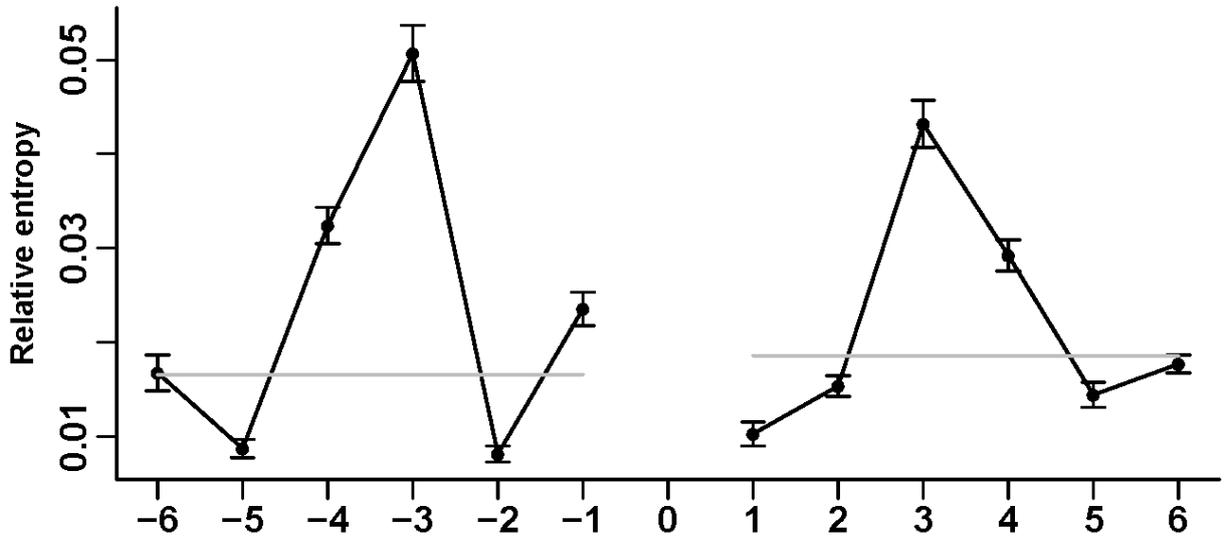


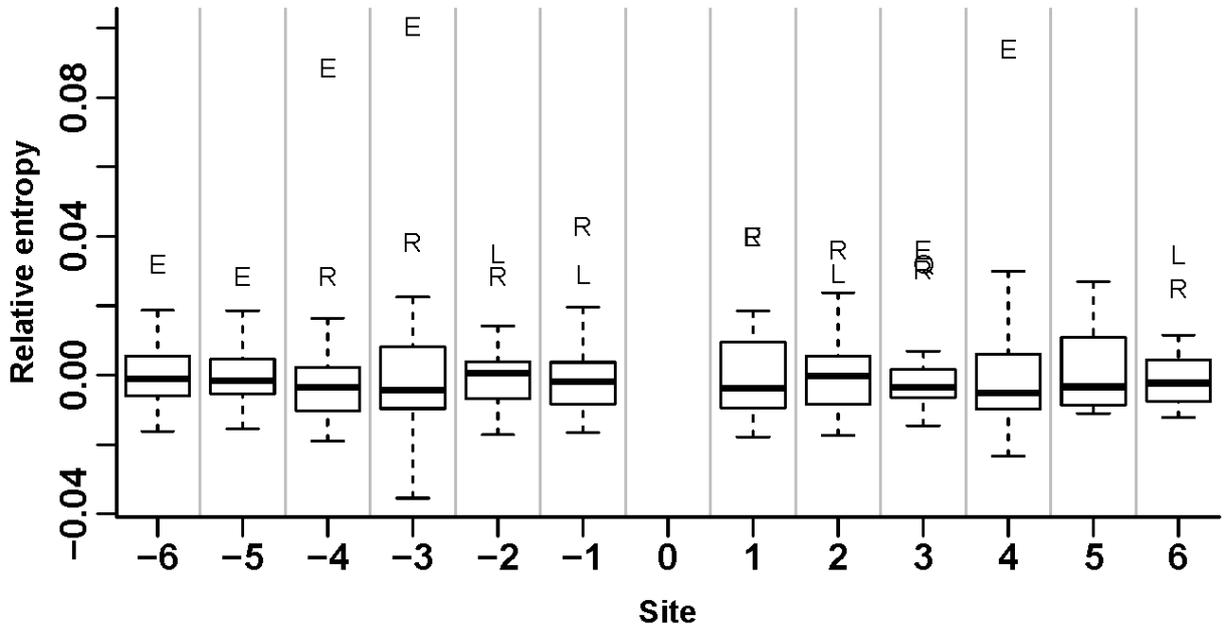
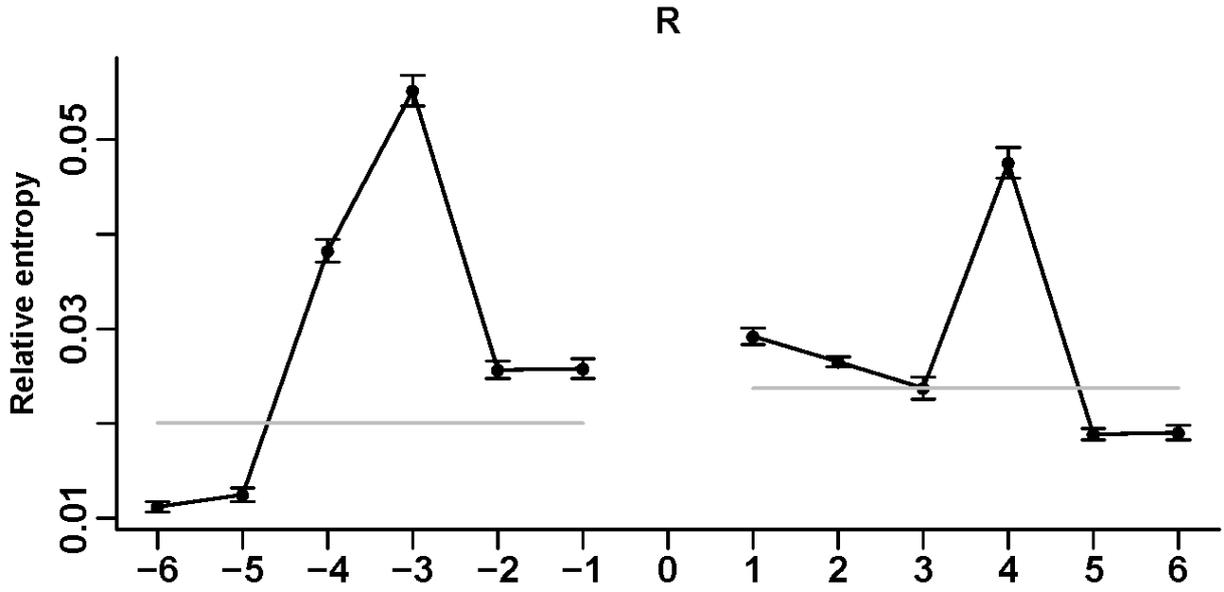




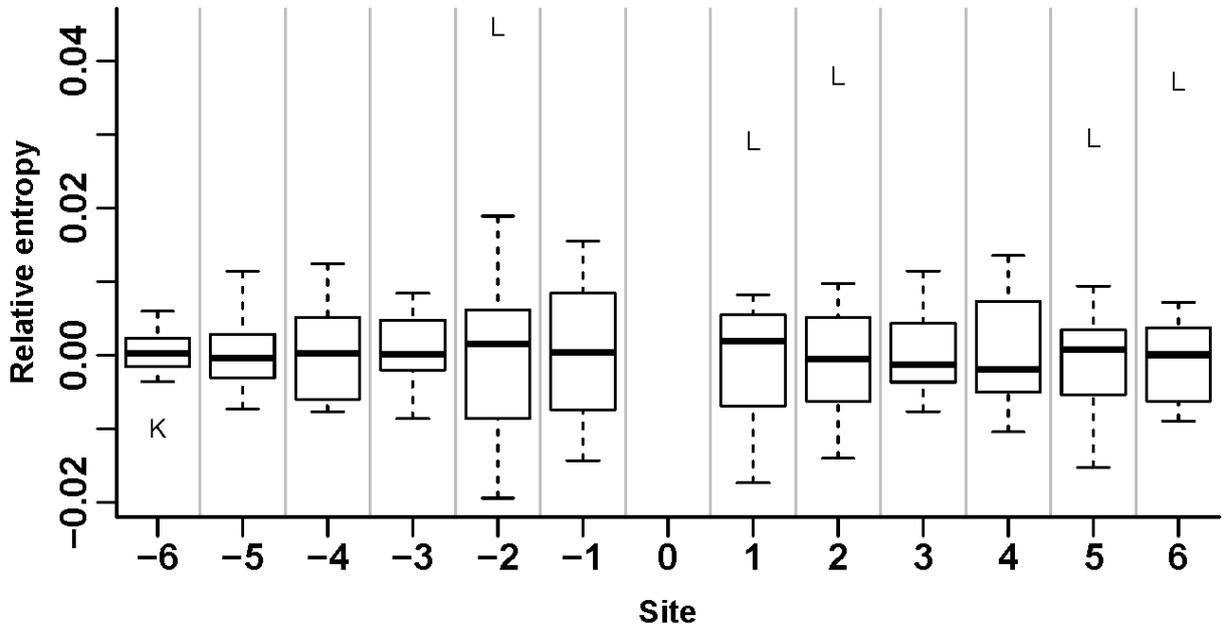
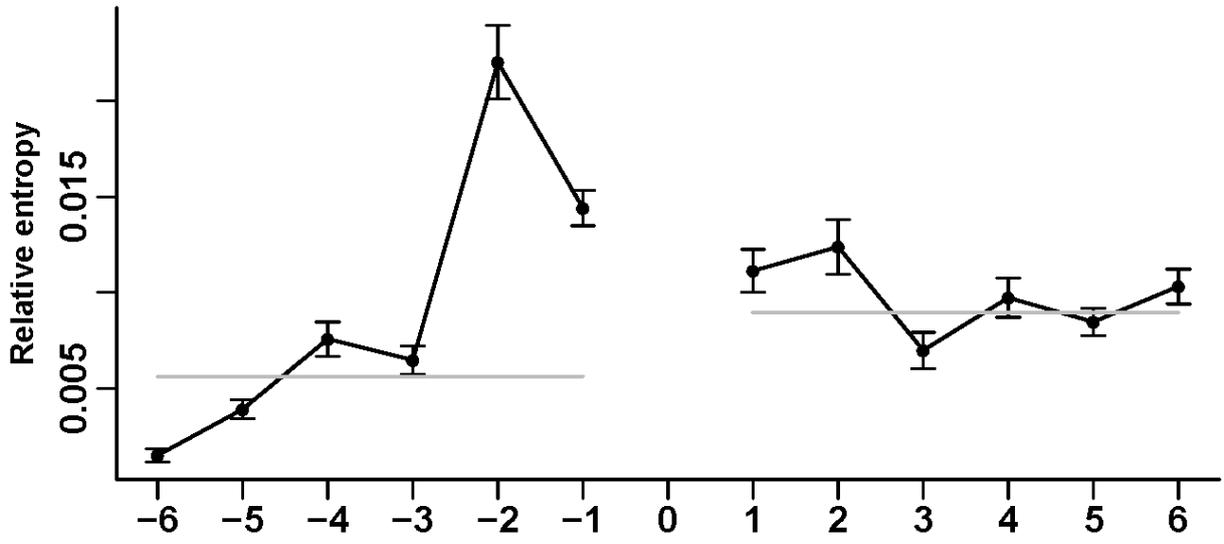


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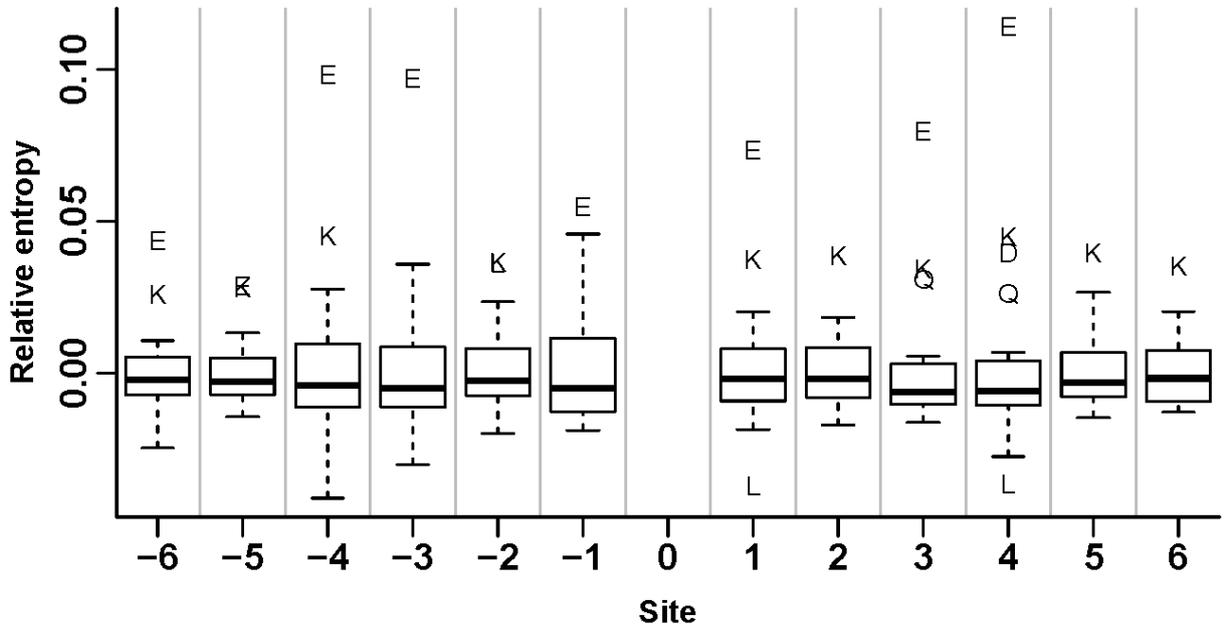
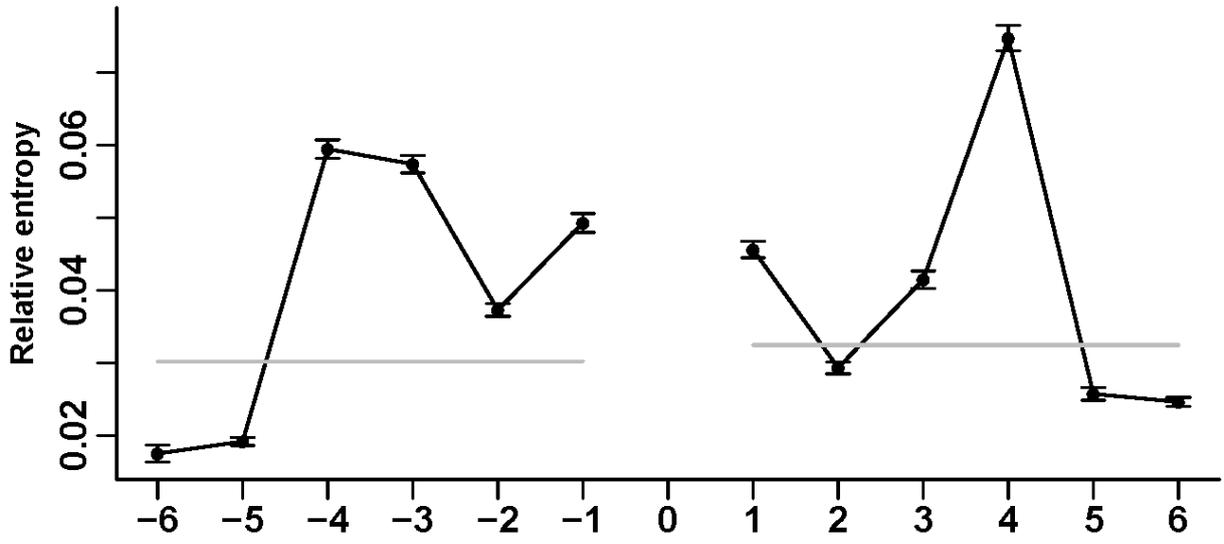




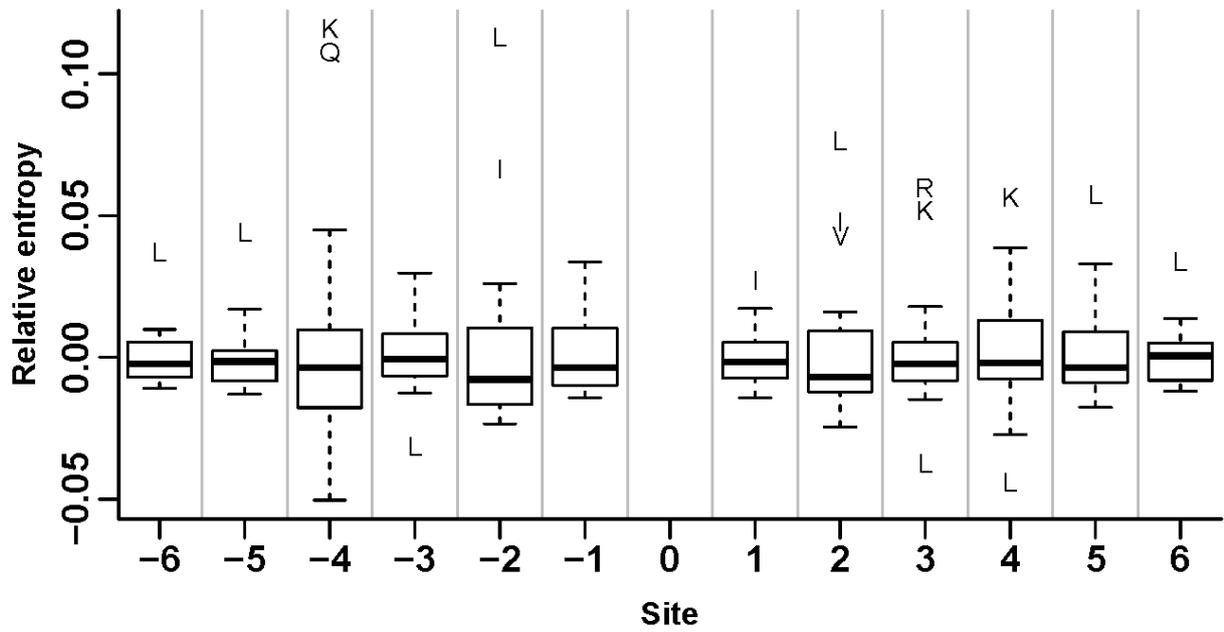
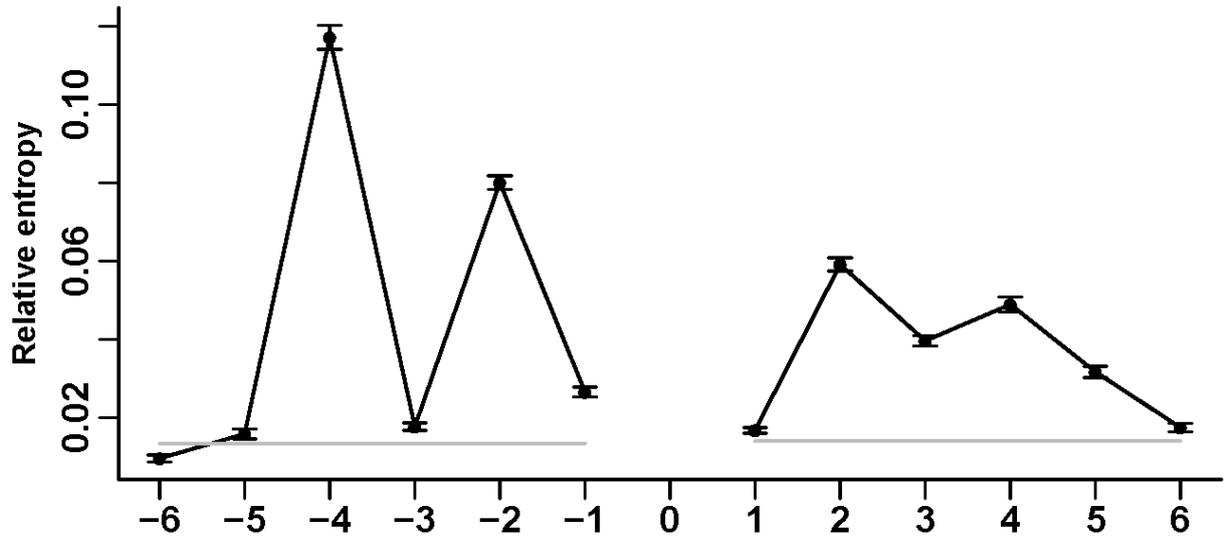
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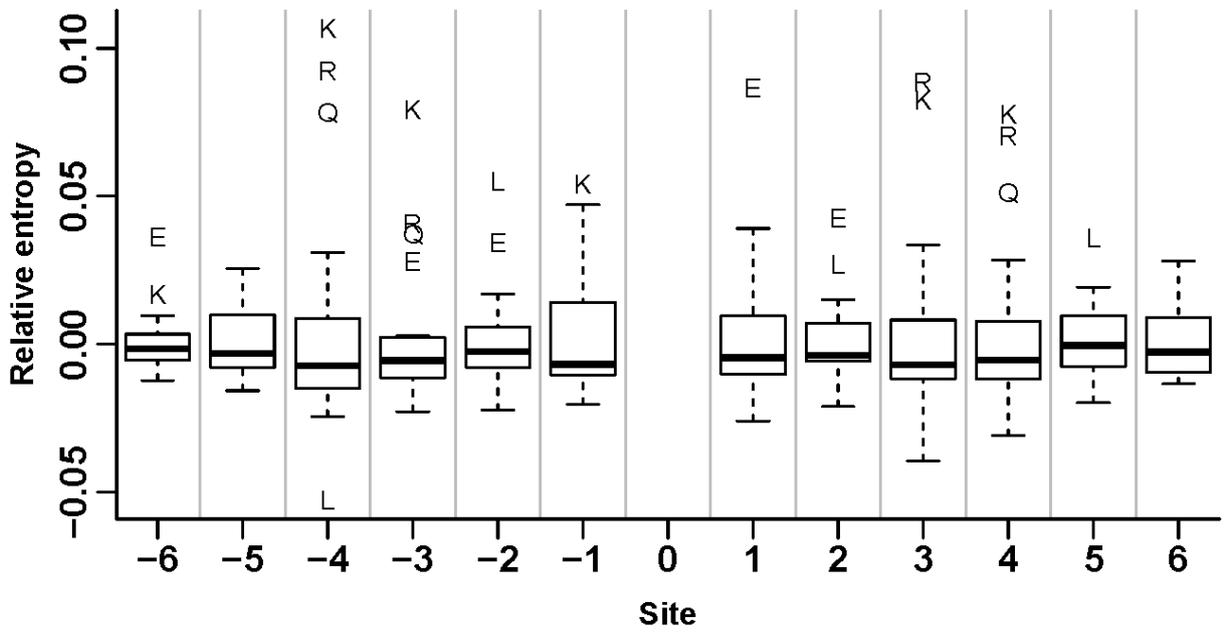
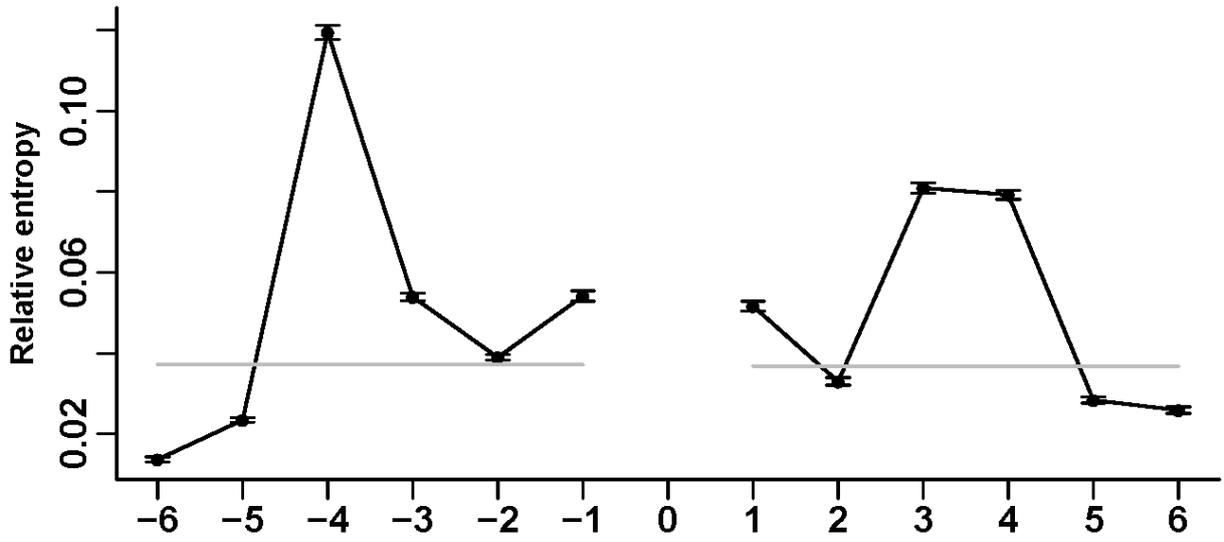
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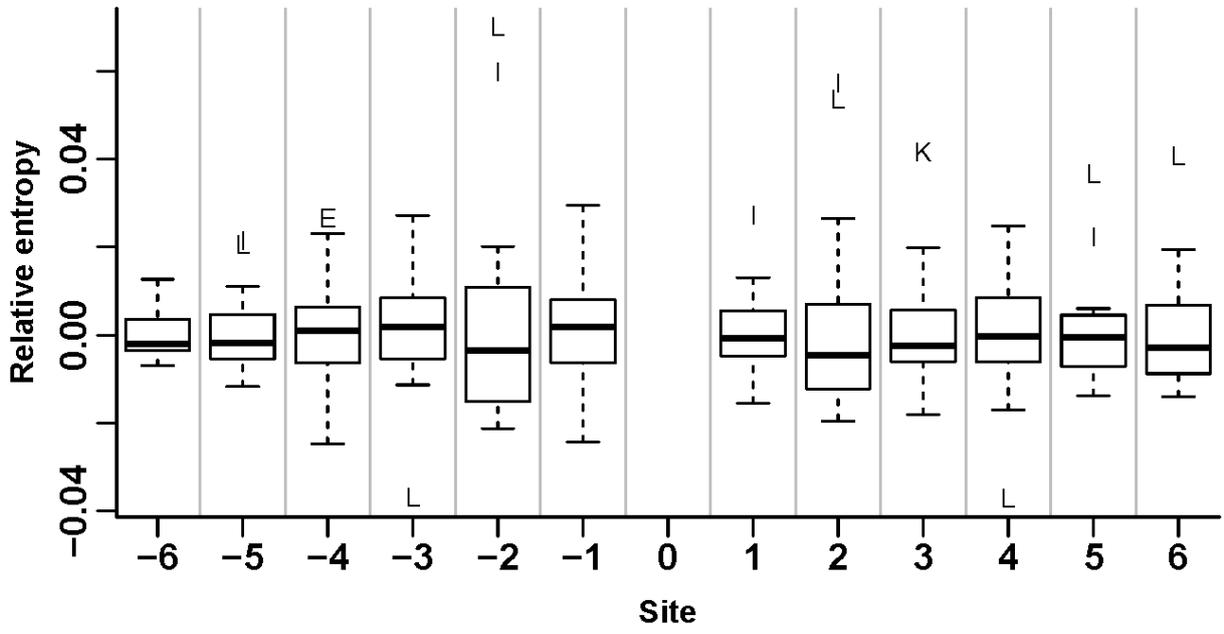
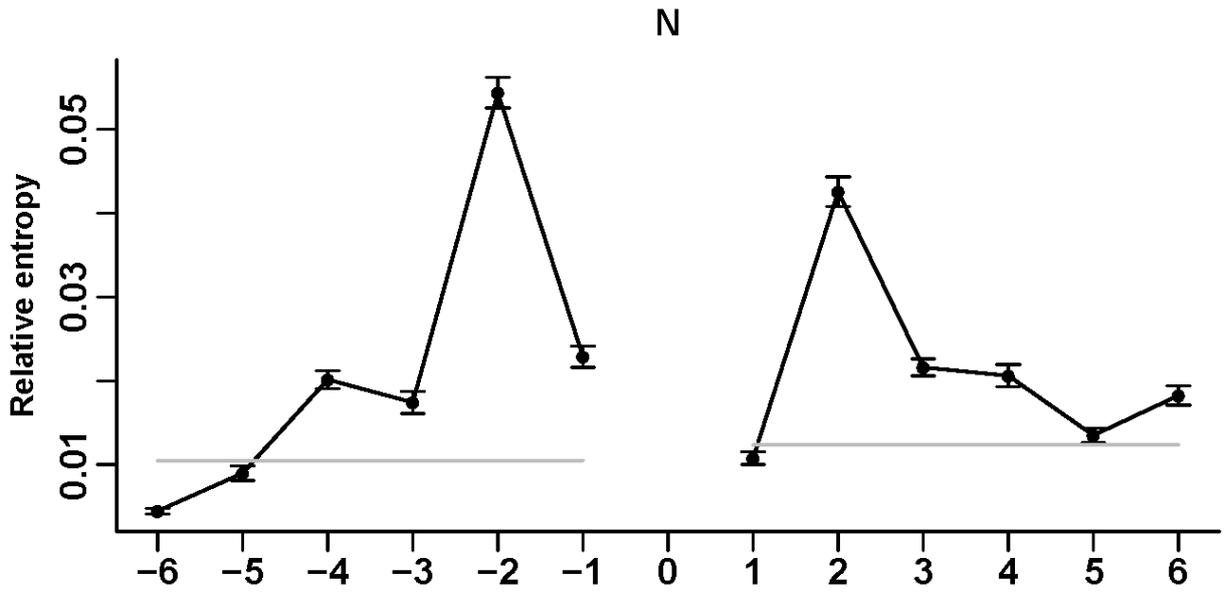


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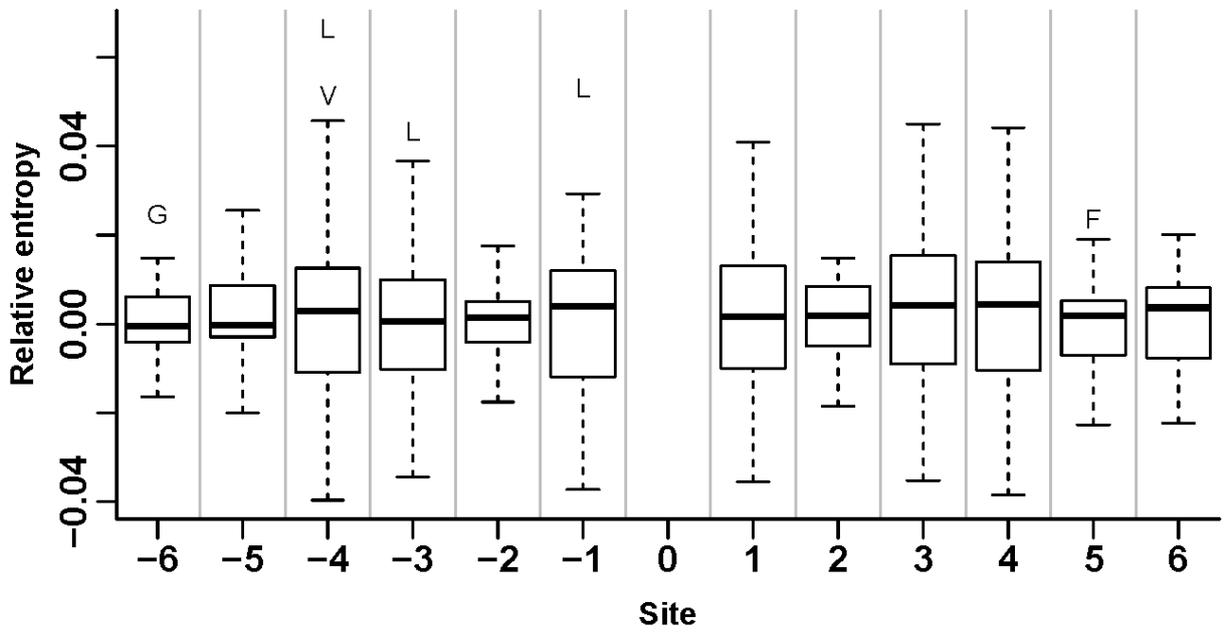
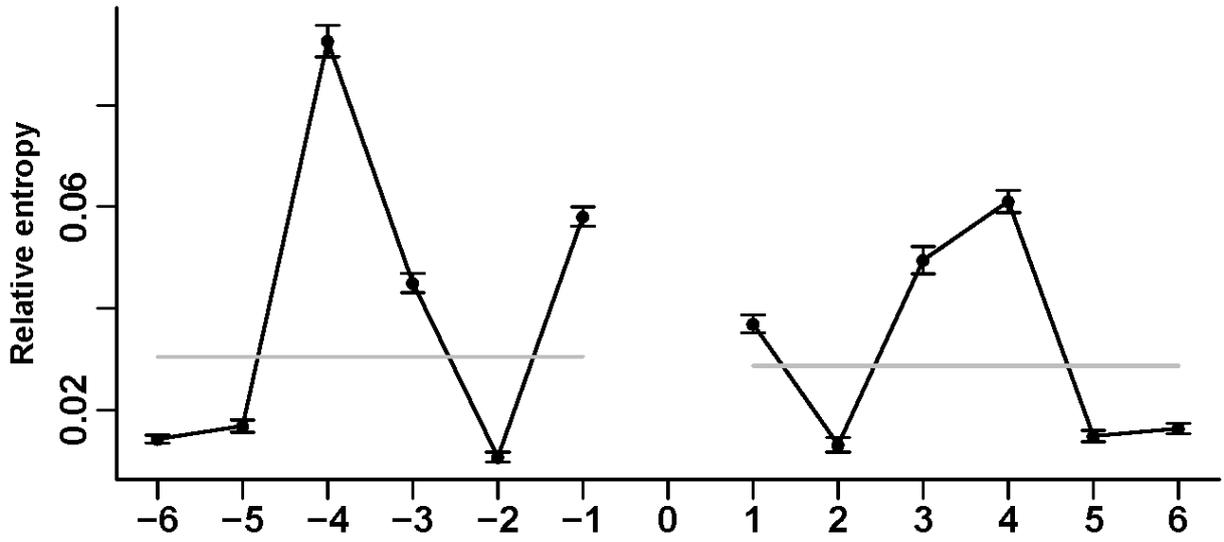


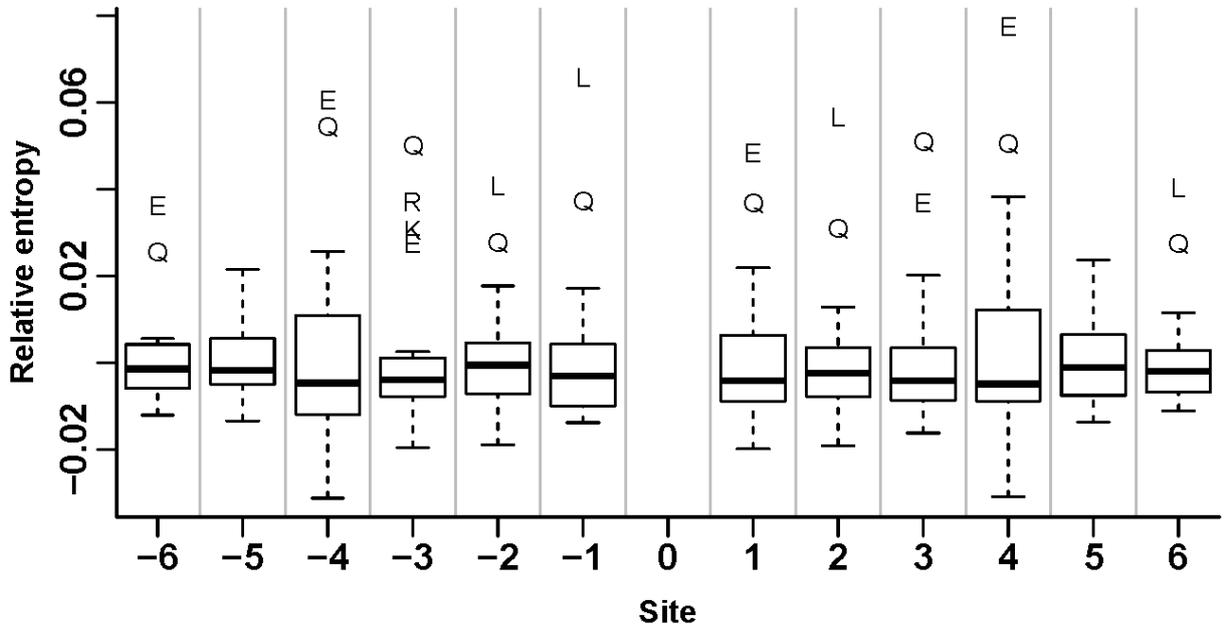
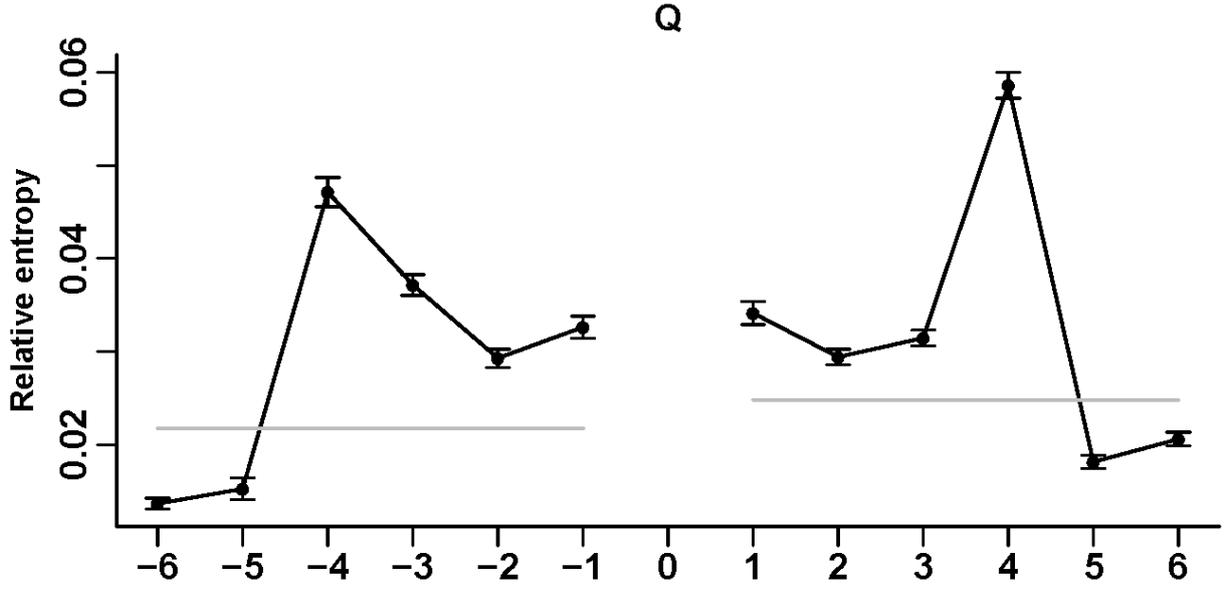
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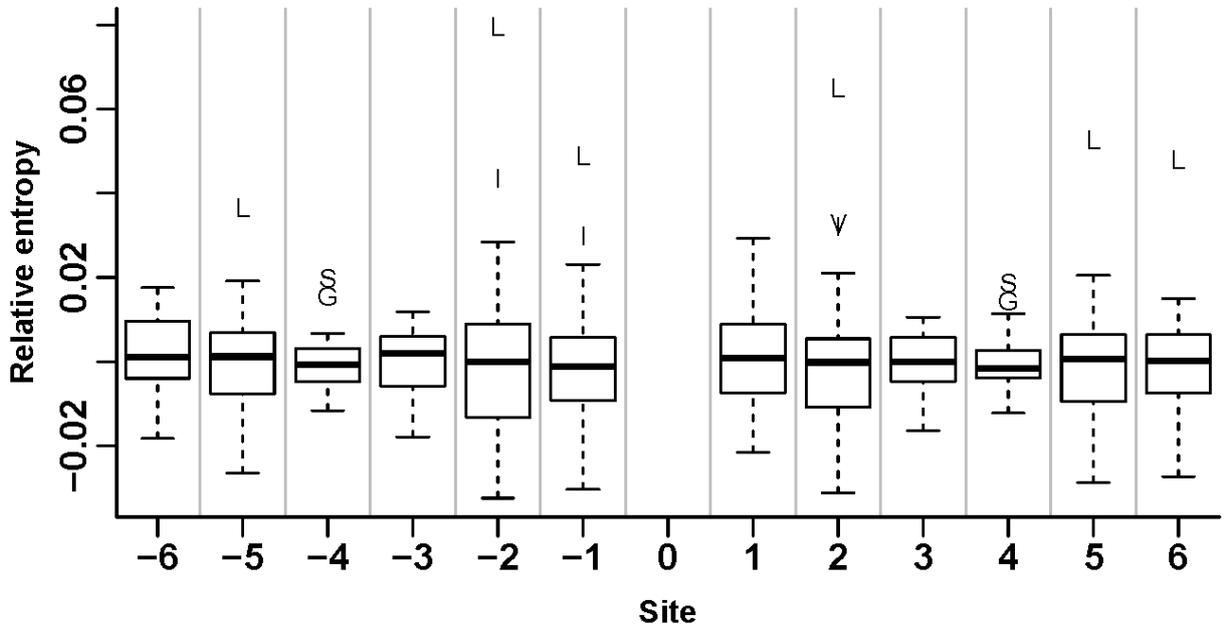
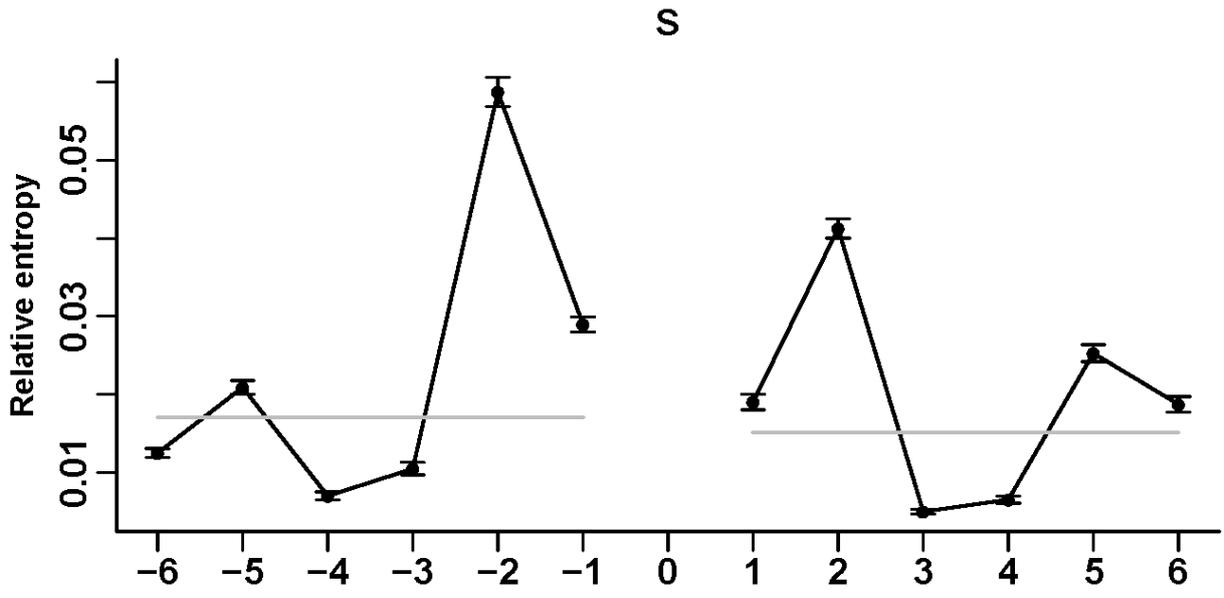


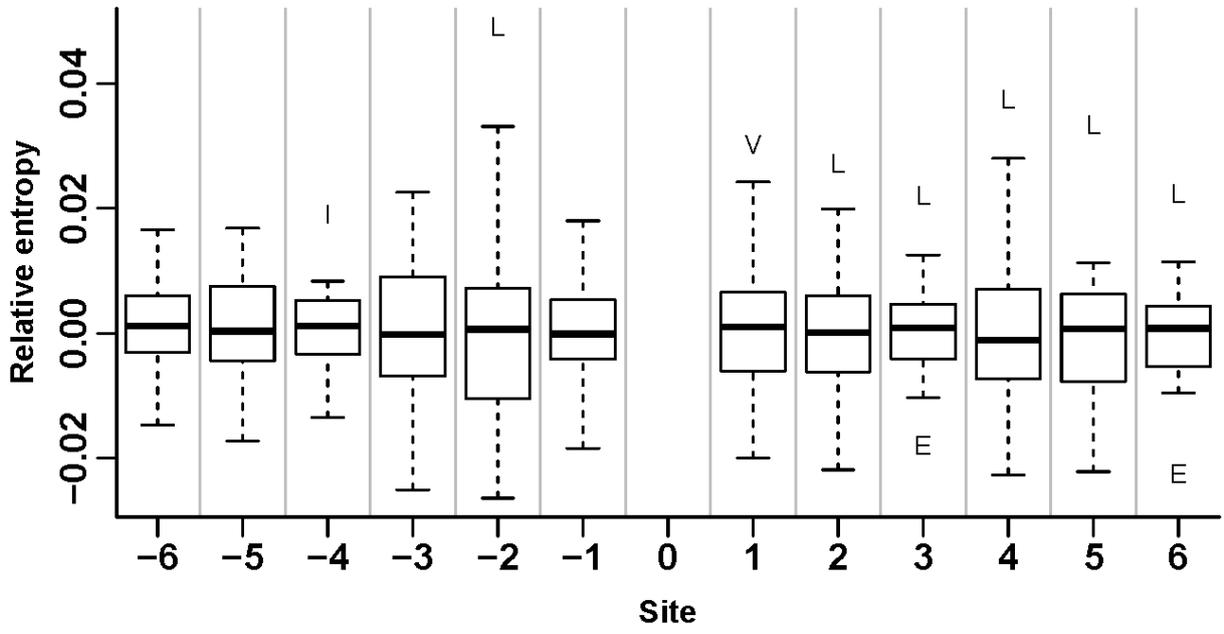
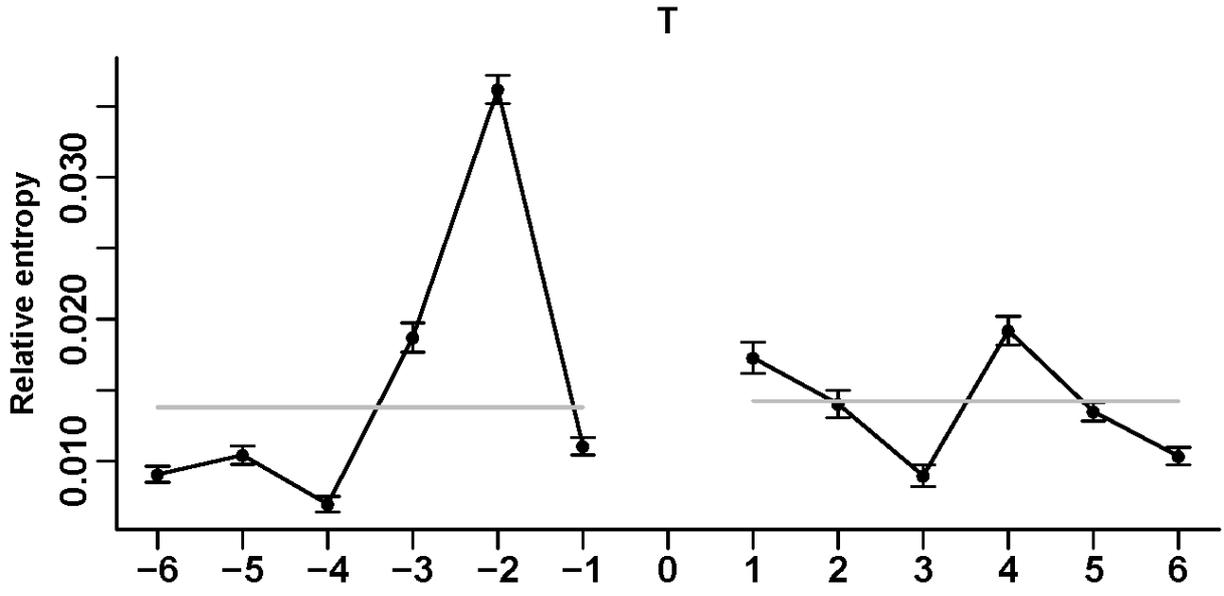


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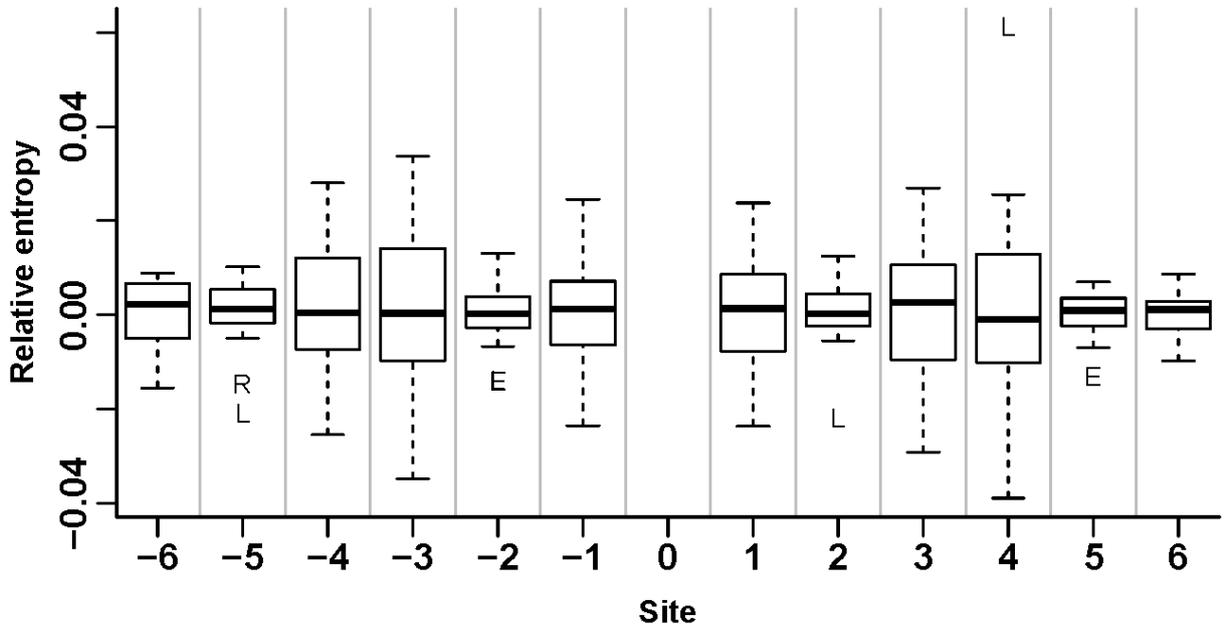
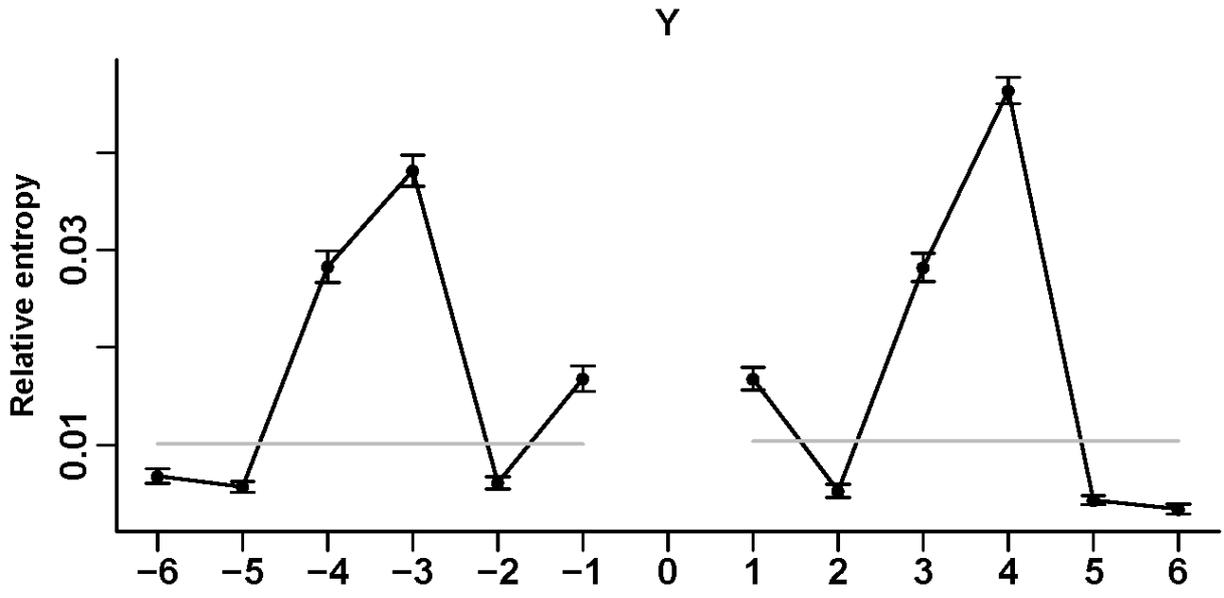
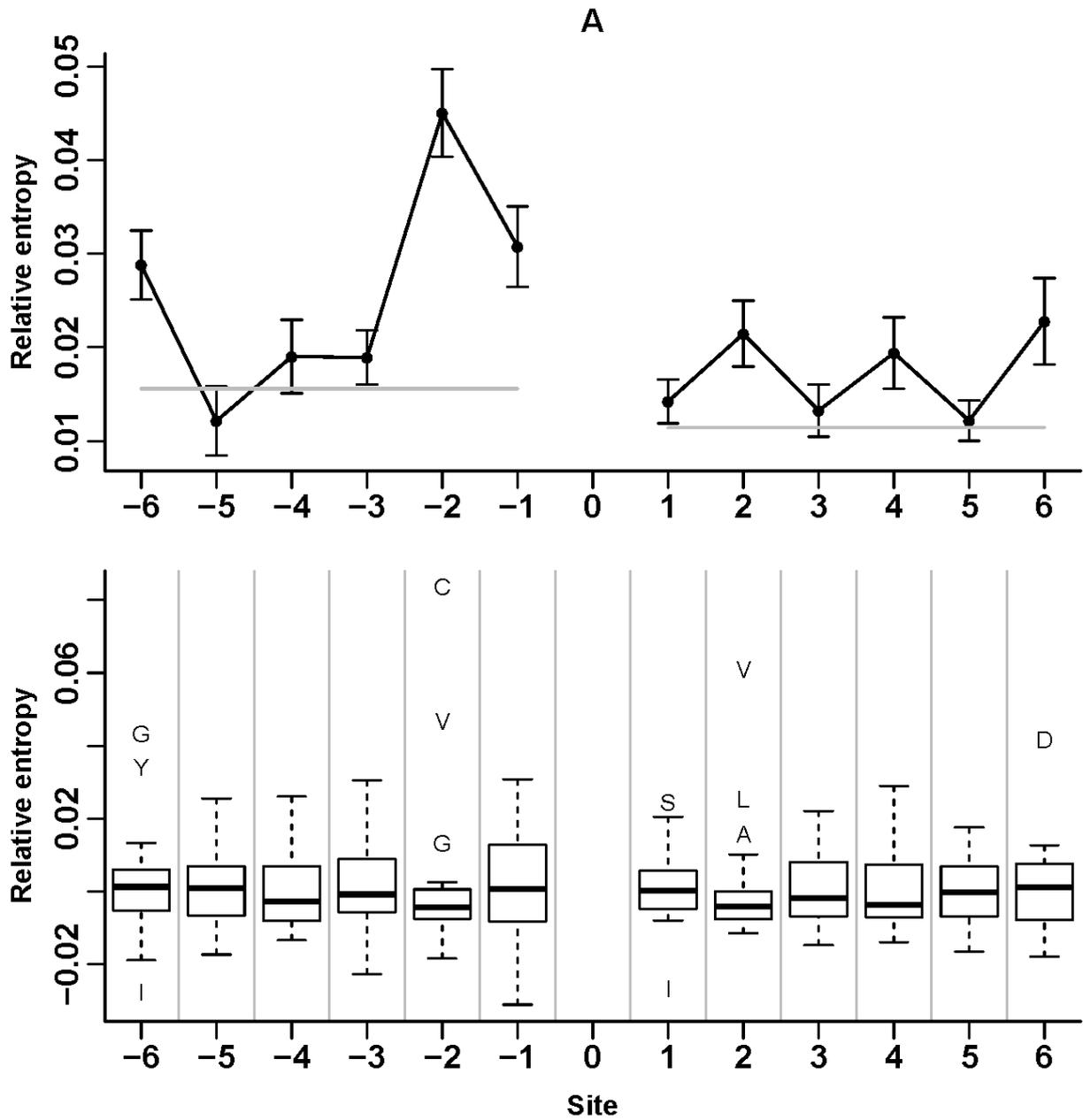
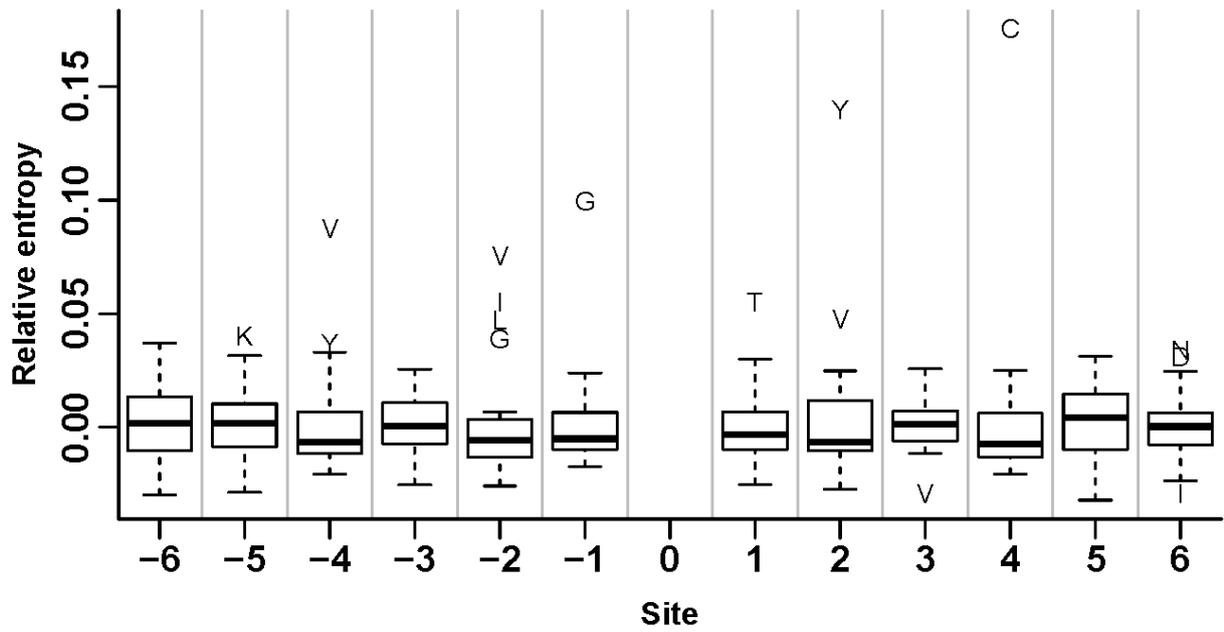
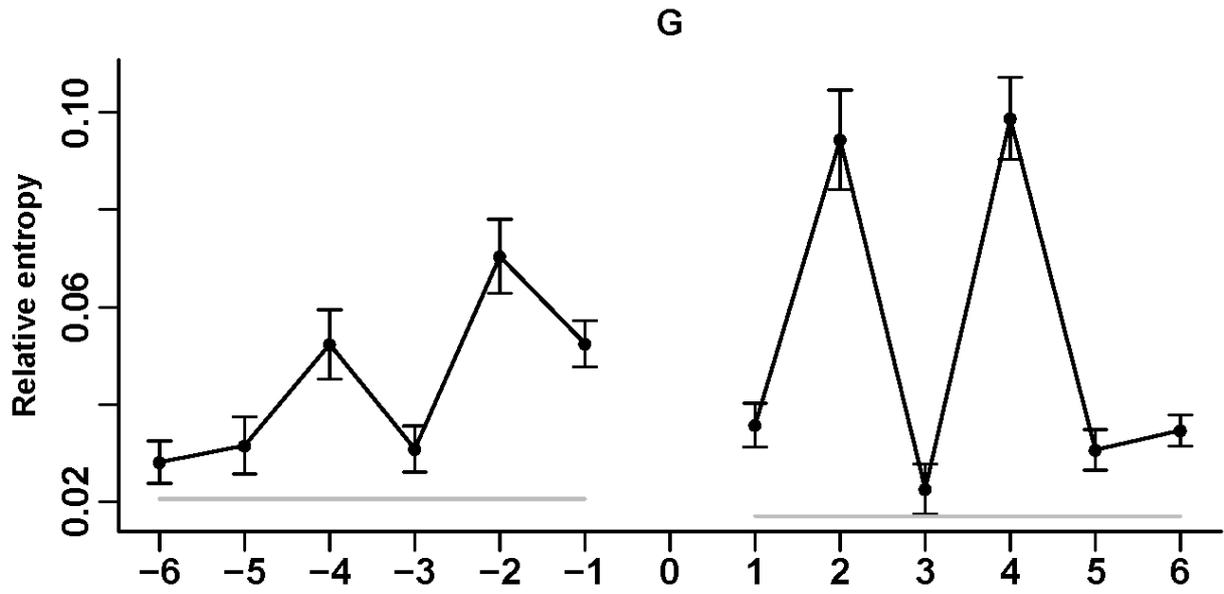
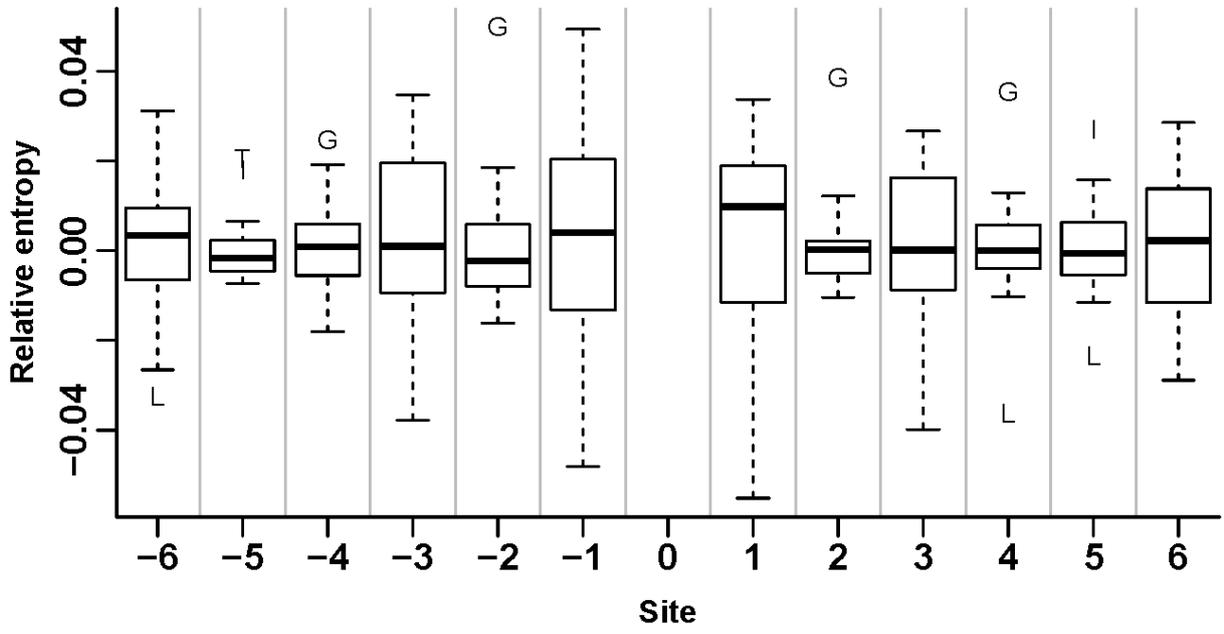
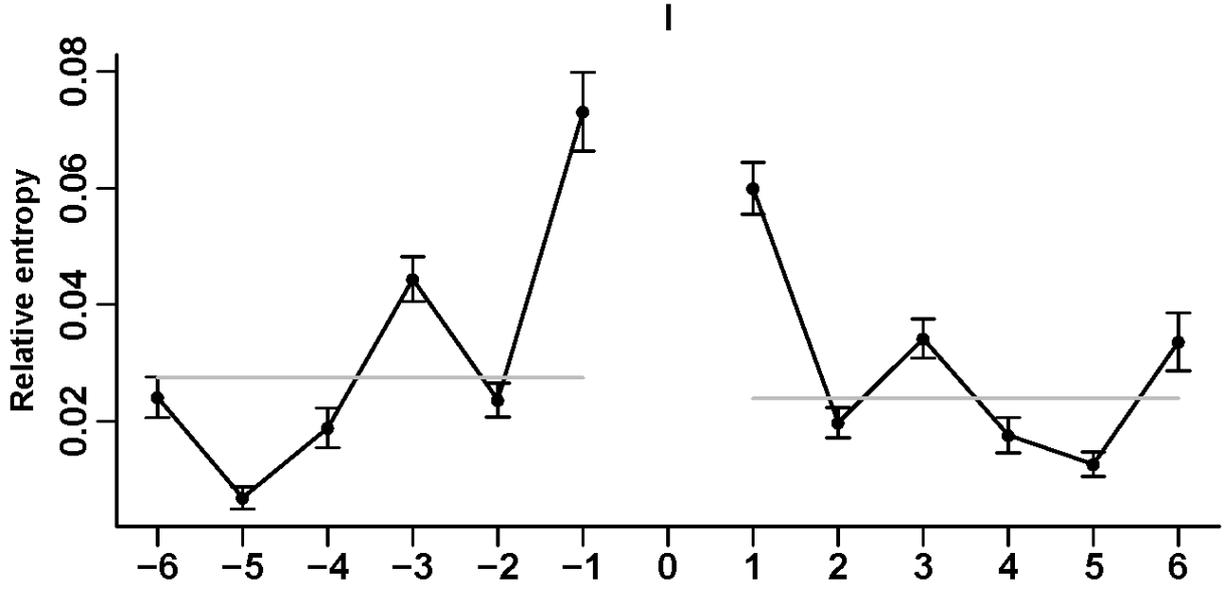
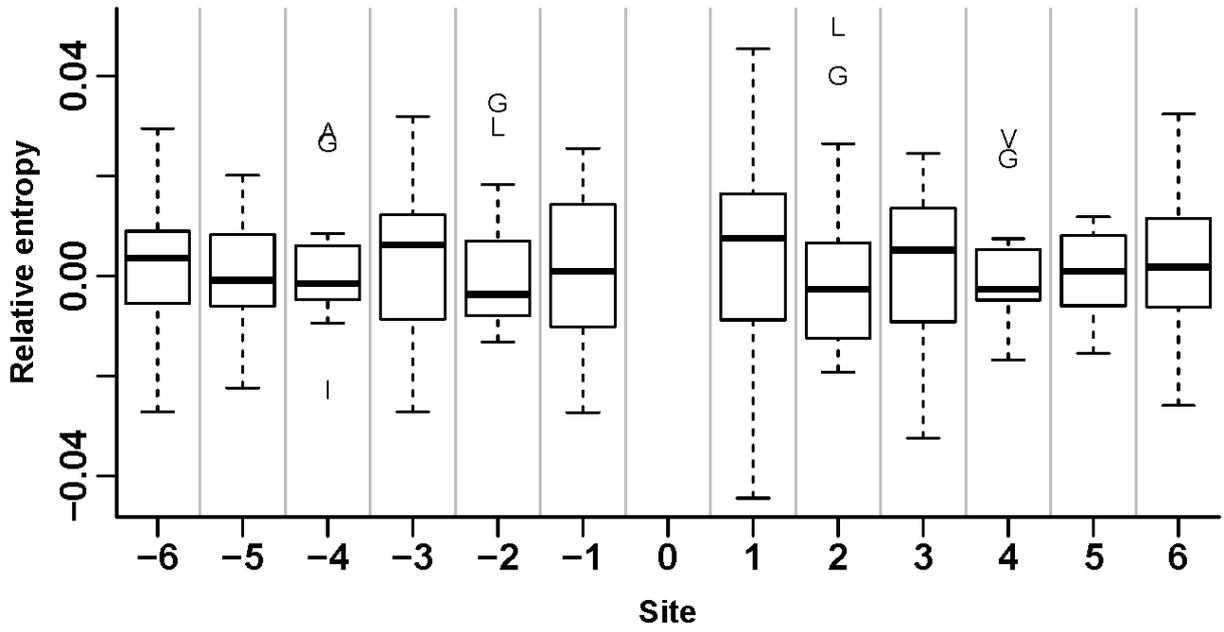
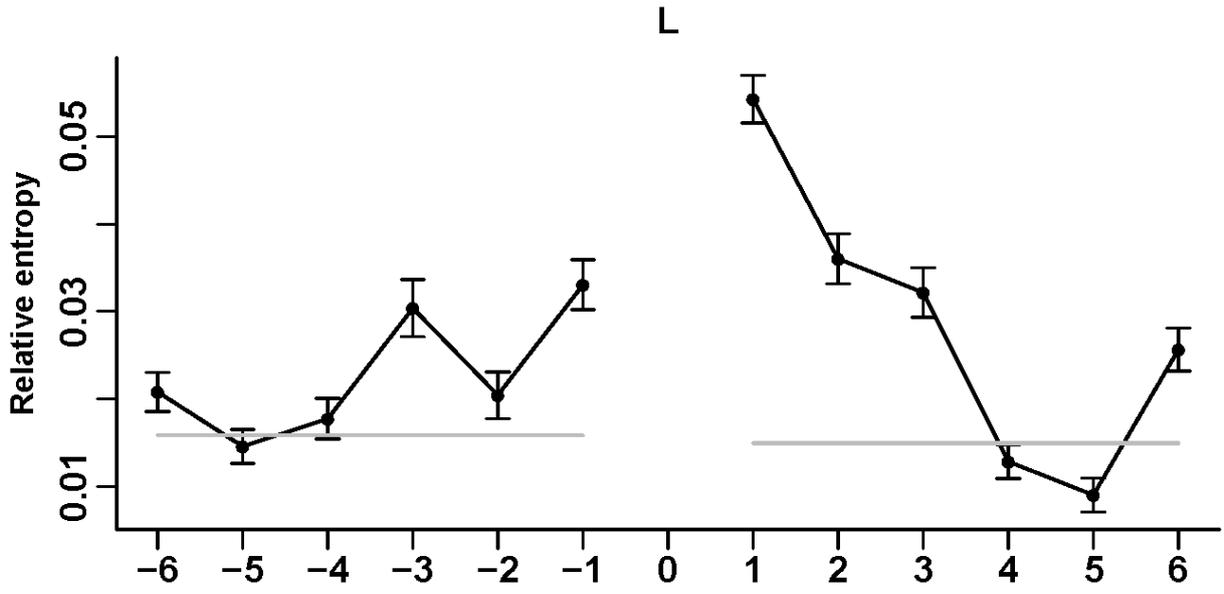


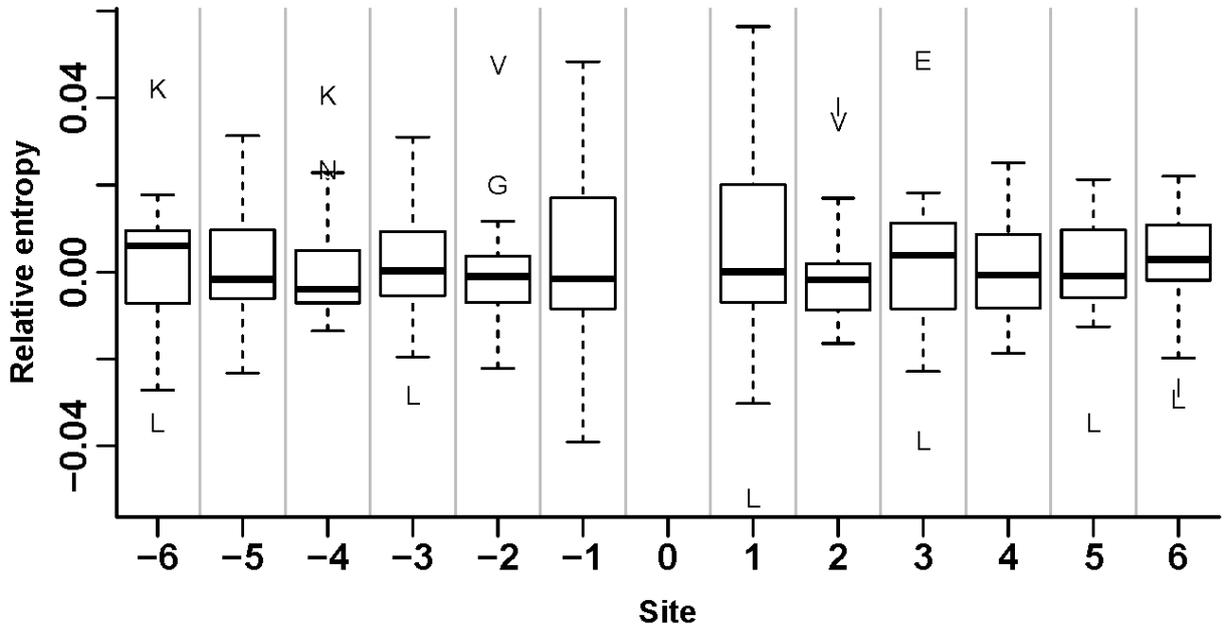
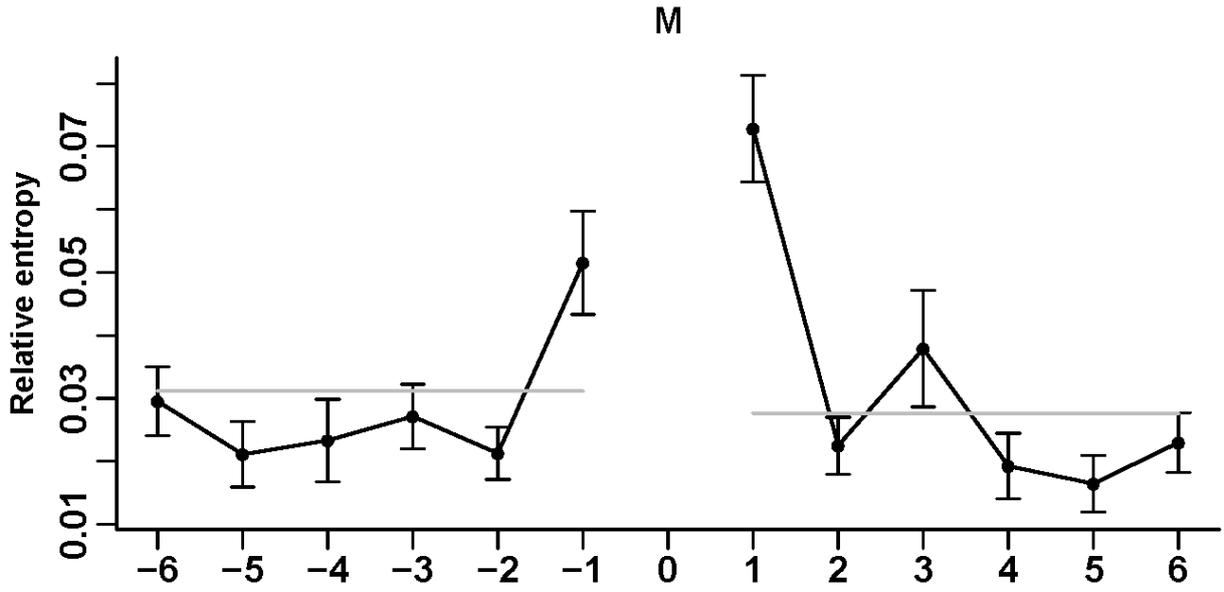
Figure S3. Neighbor preference patterns of the 20 amino acids in  $\beta$ -strand.

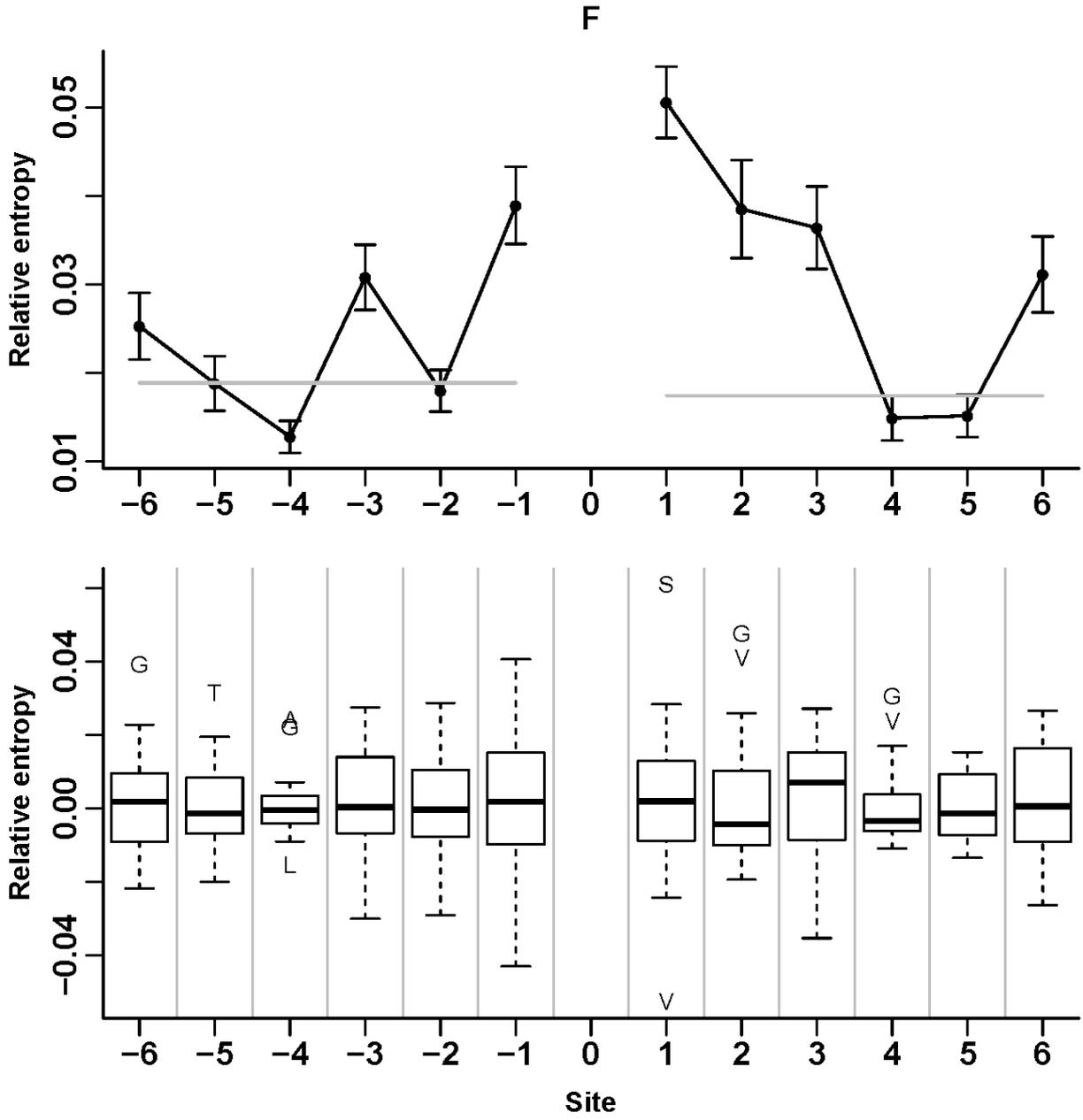


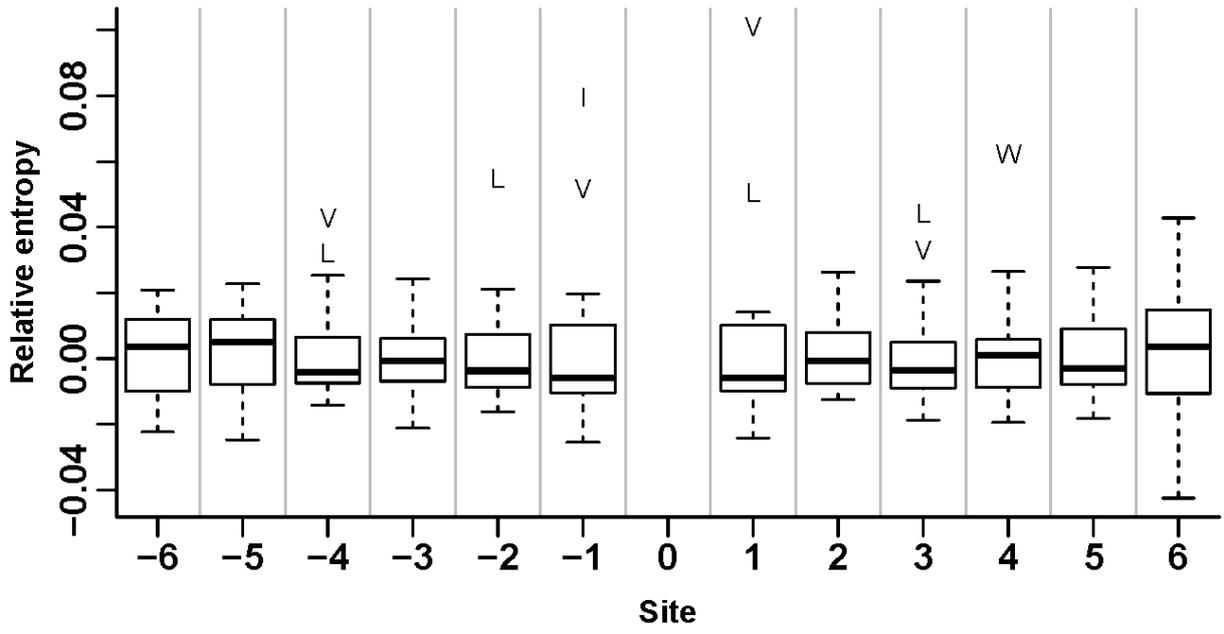
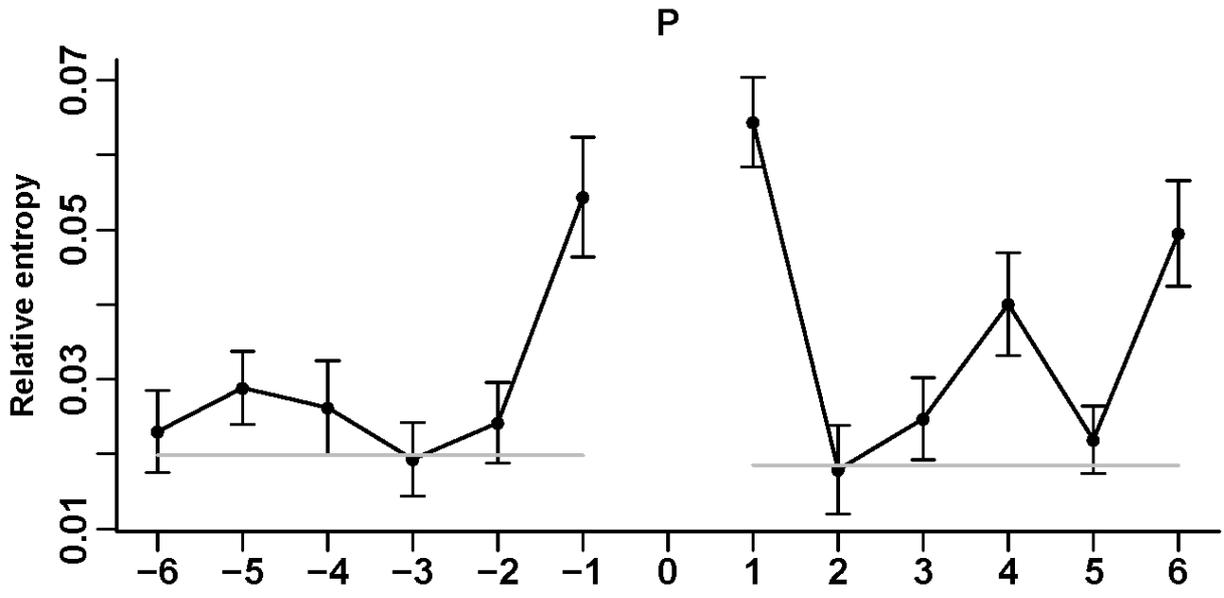


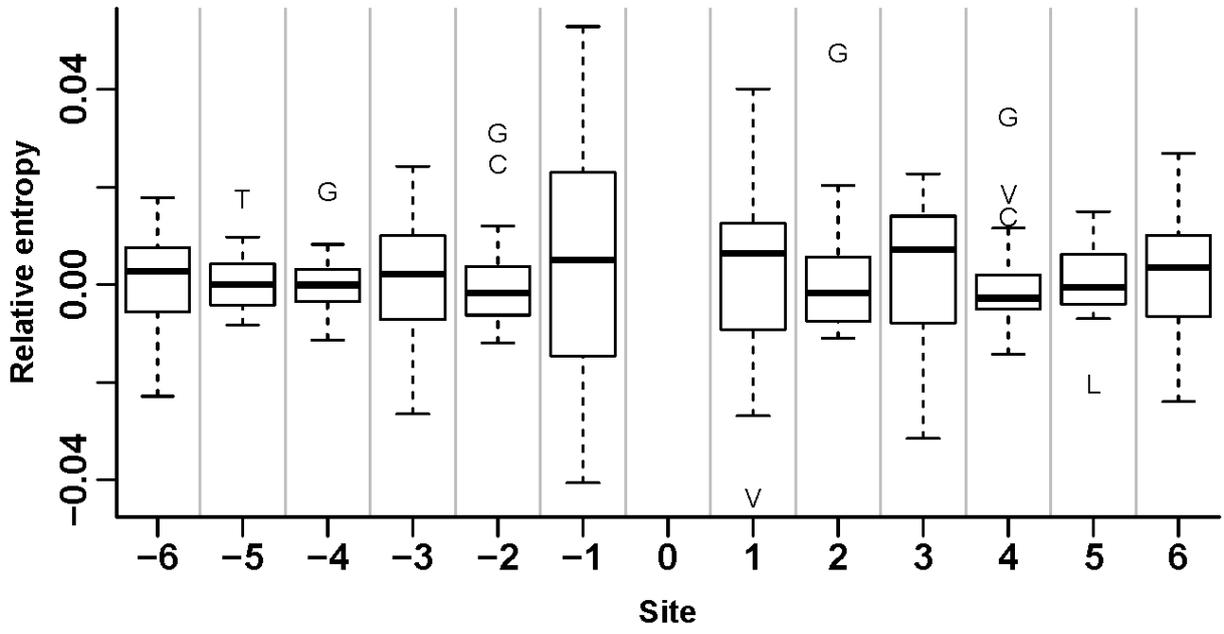
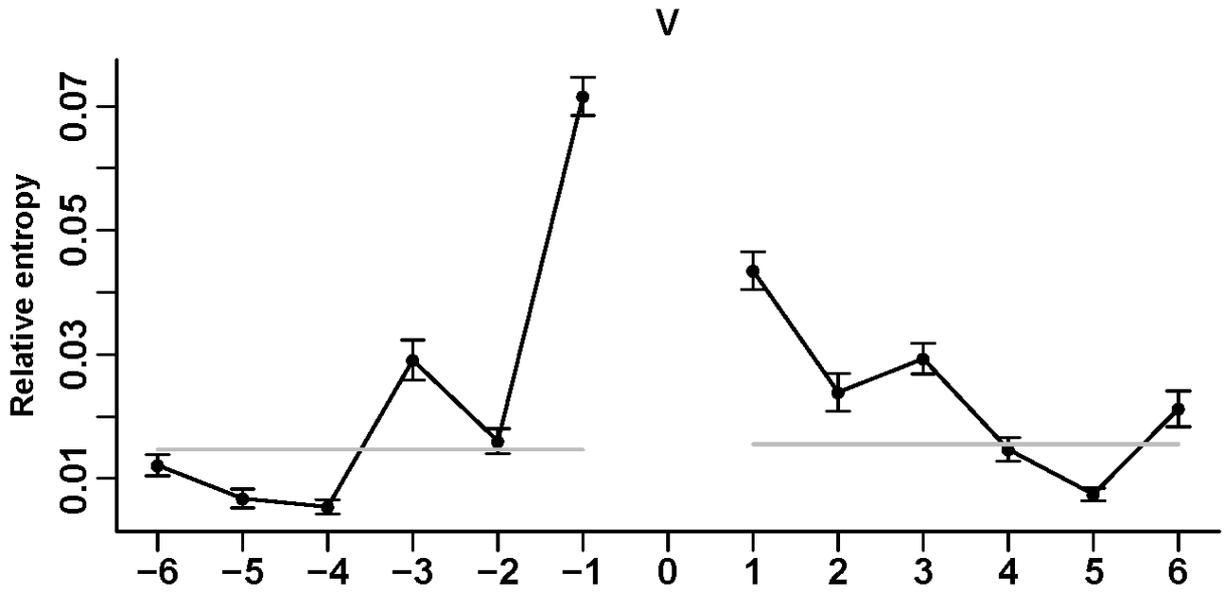


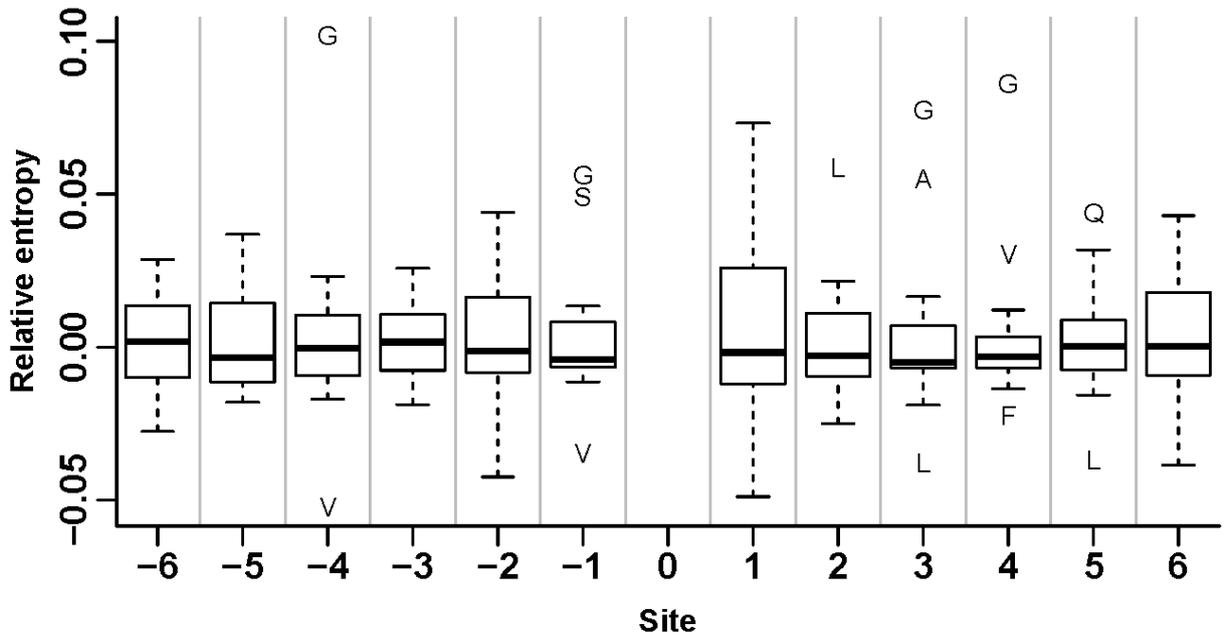
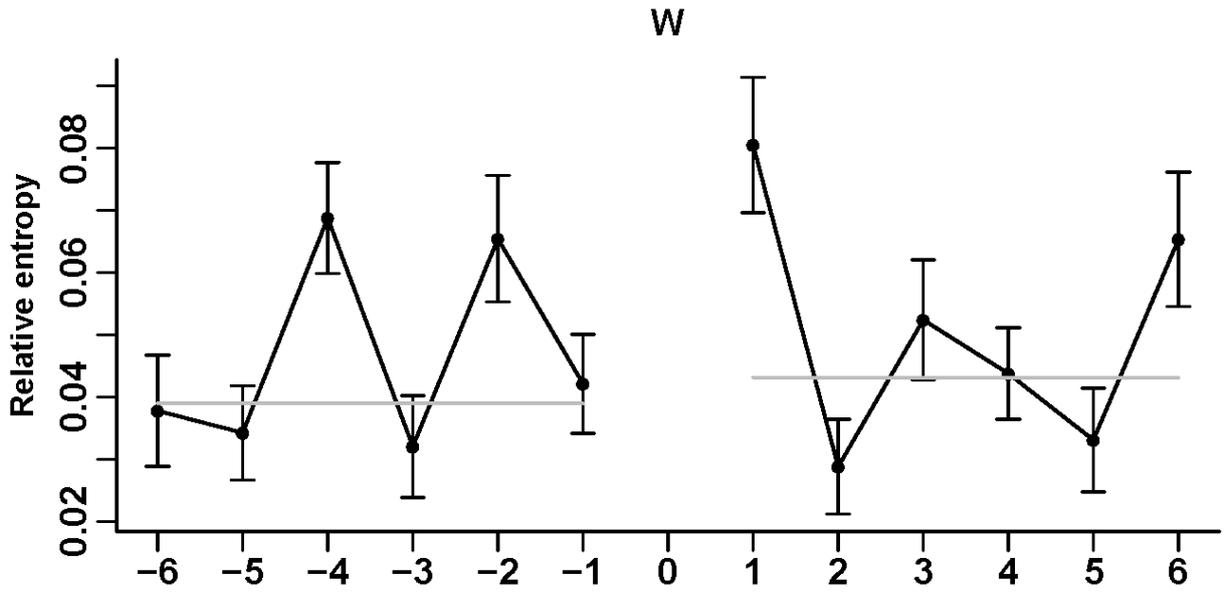


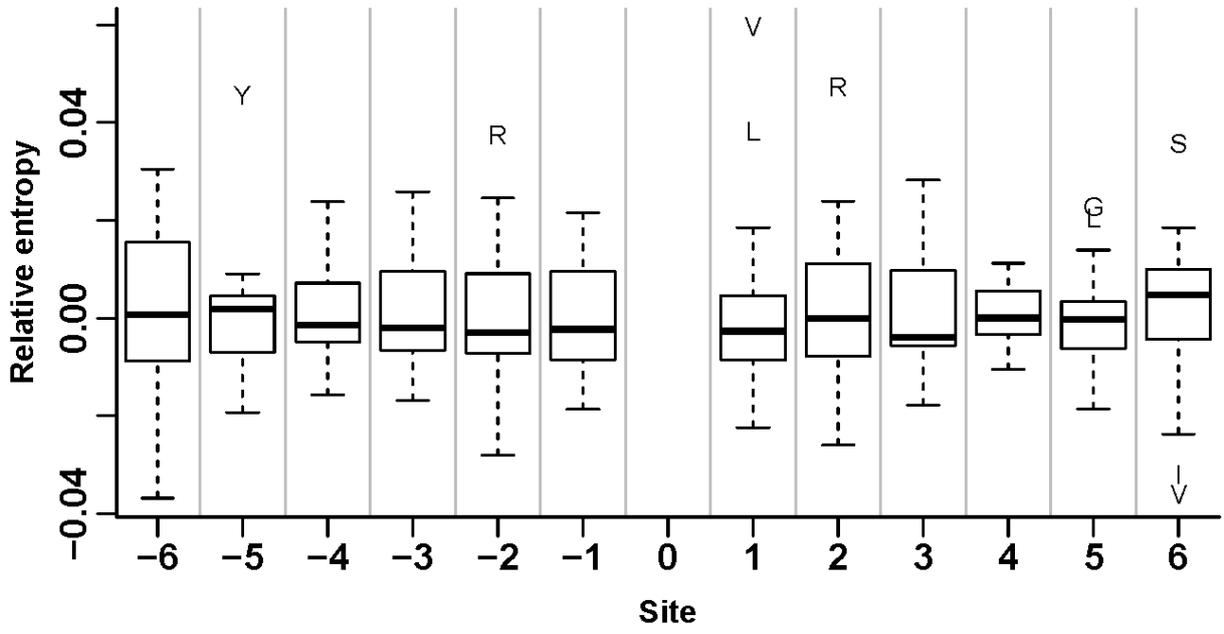
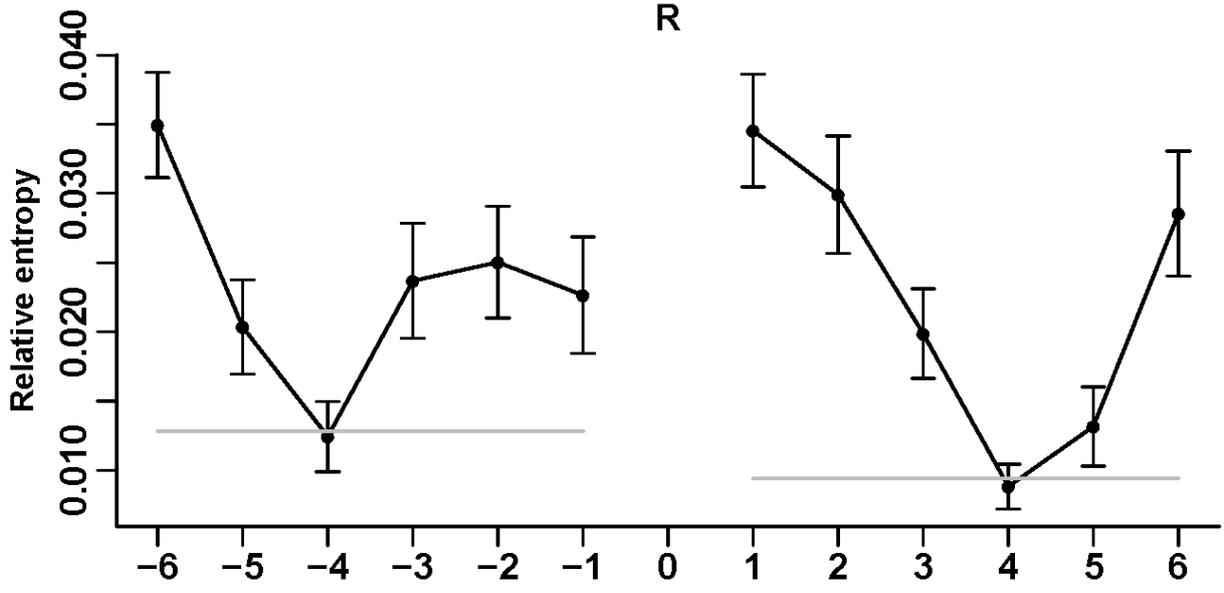


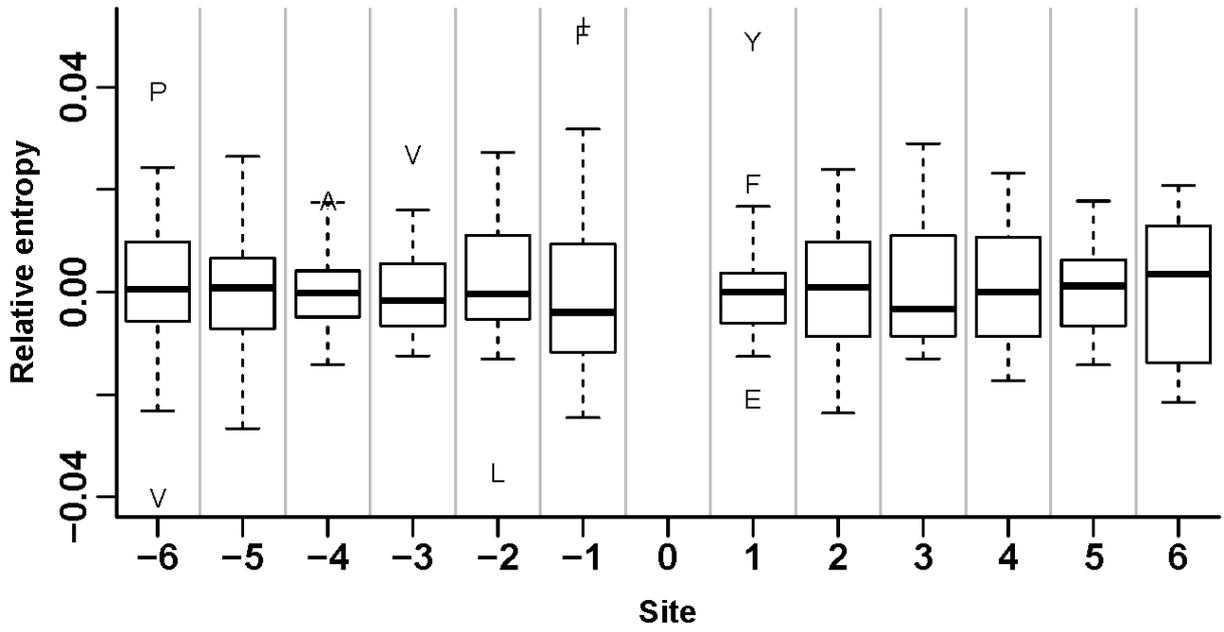
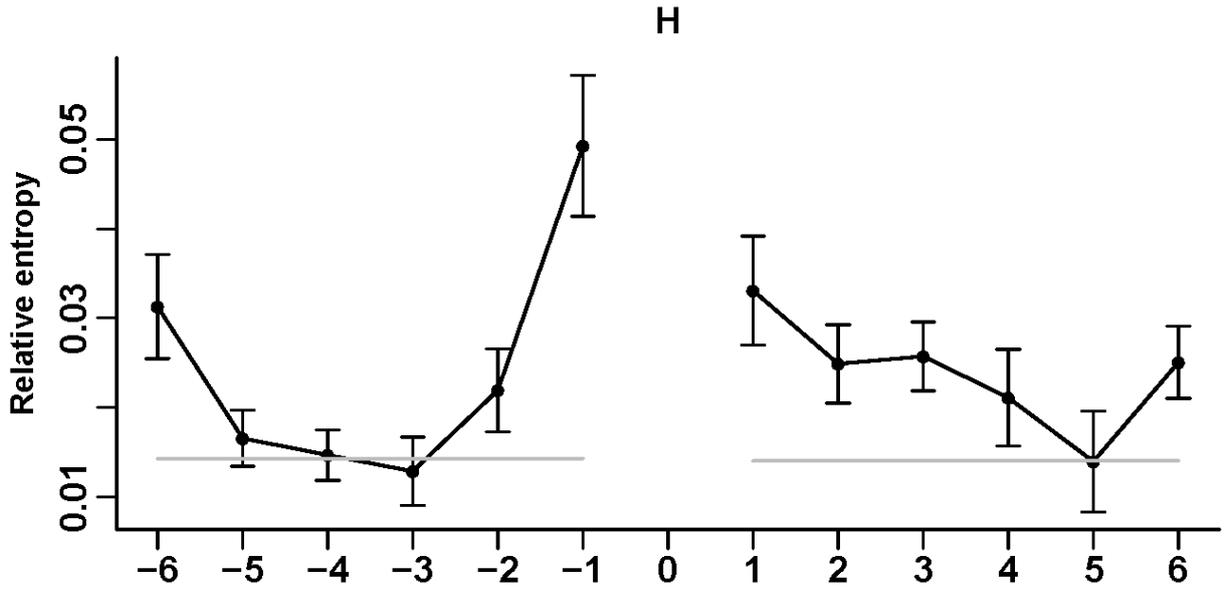




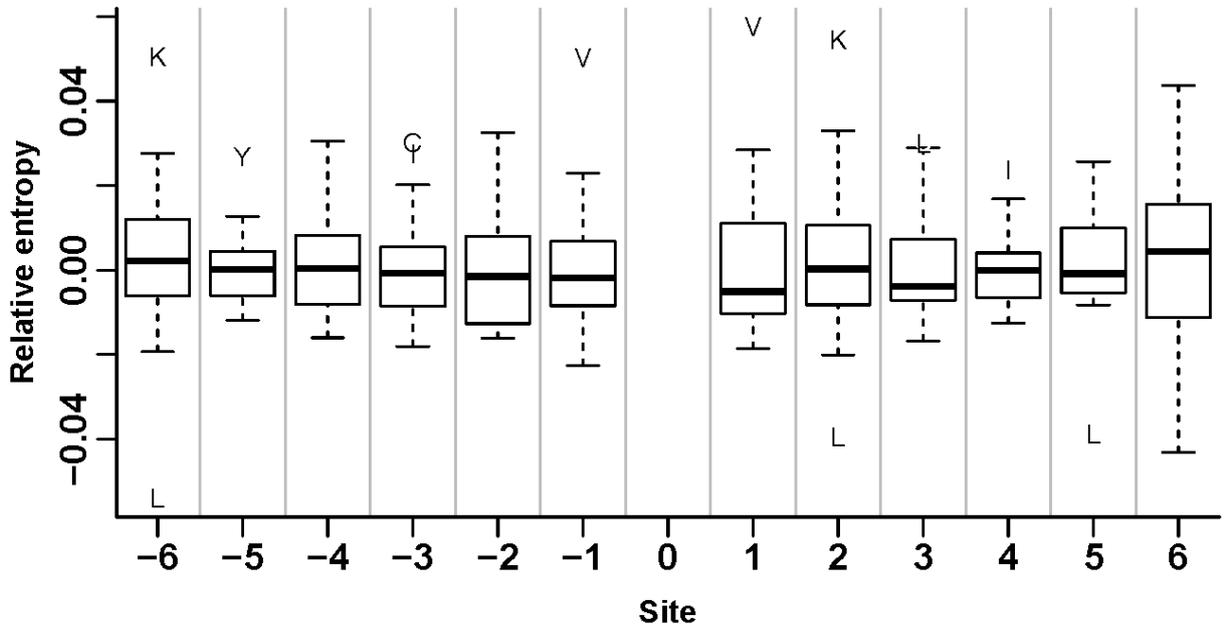
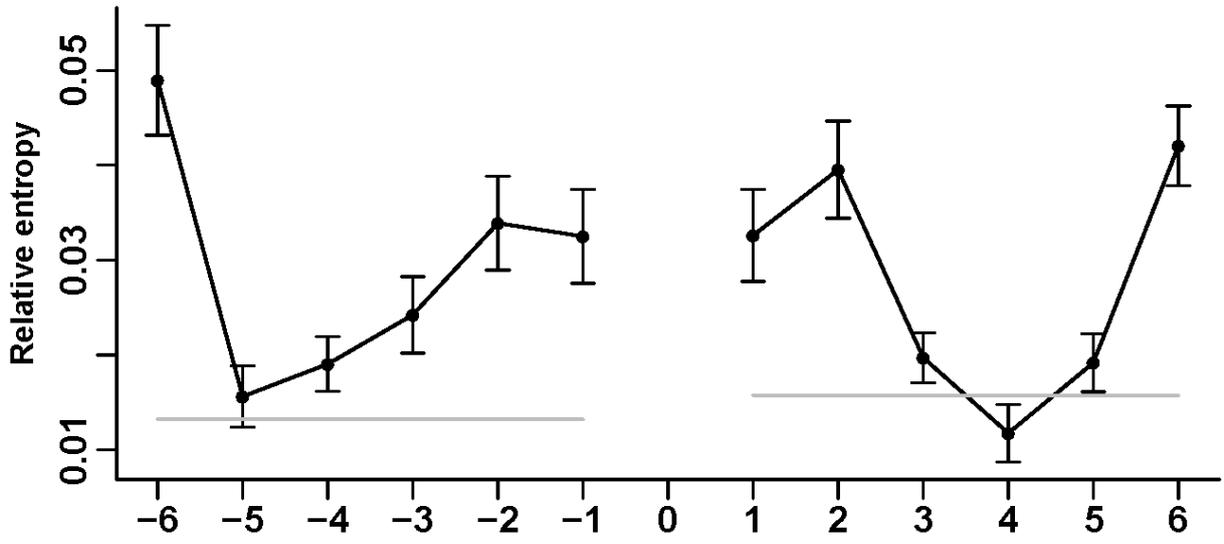


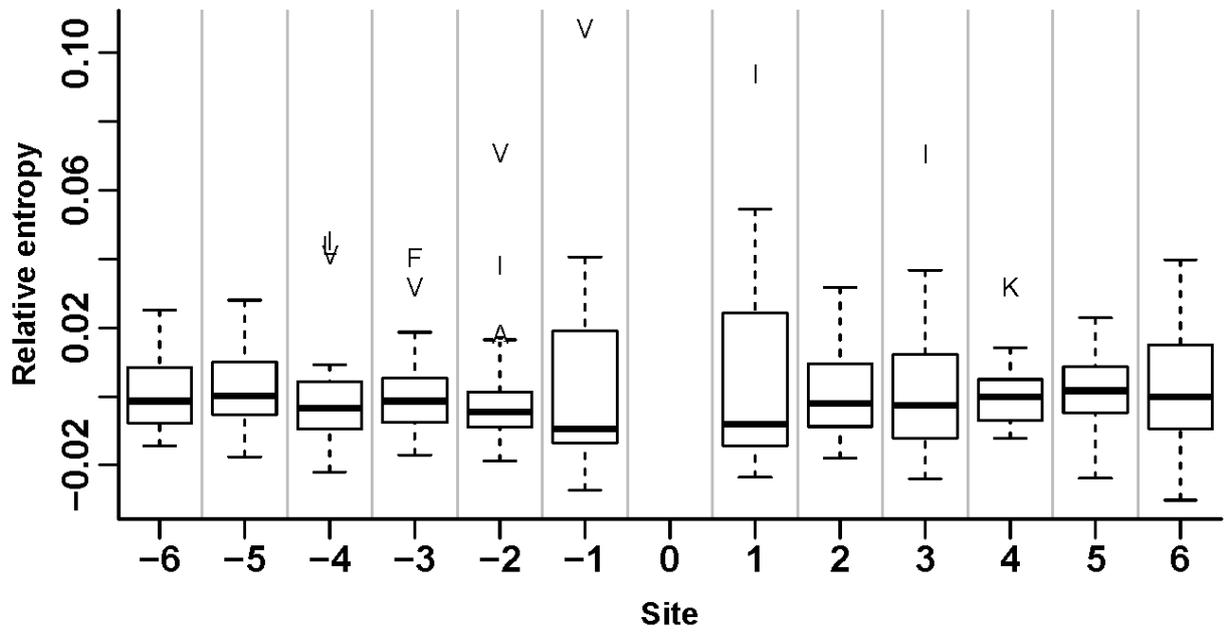
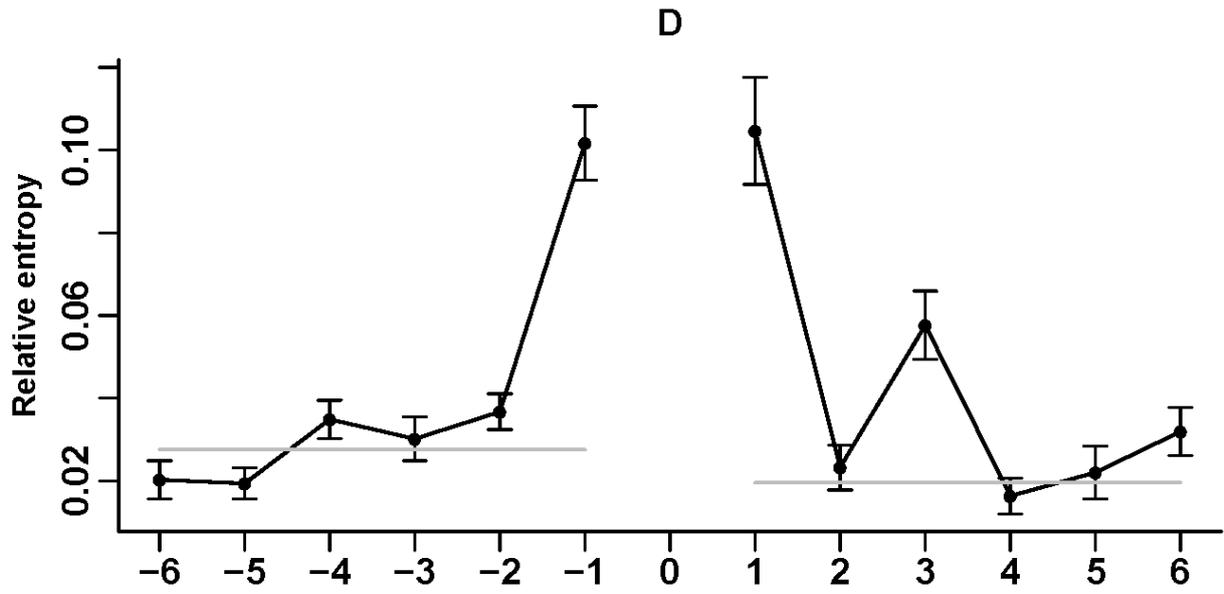


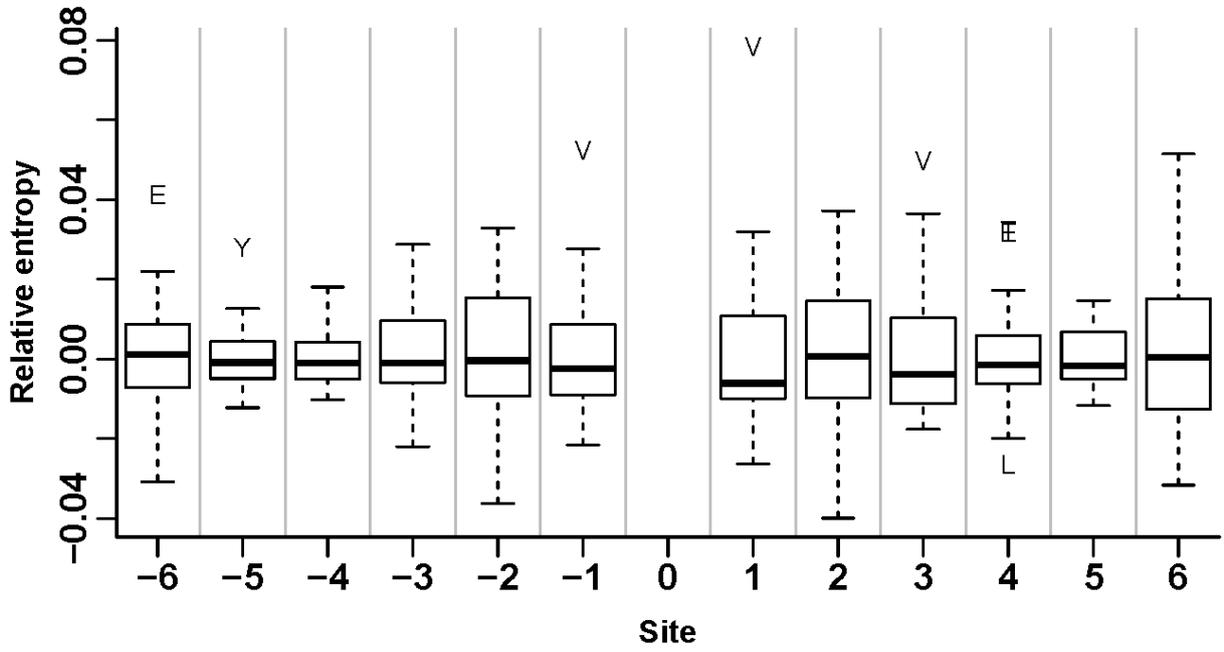
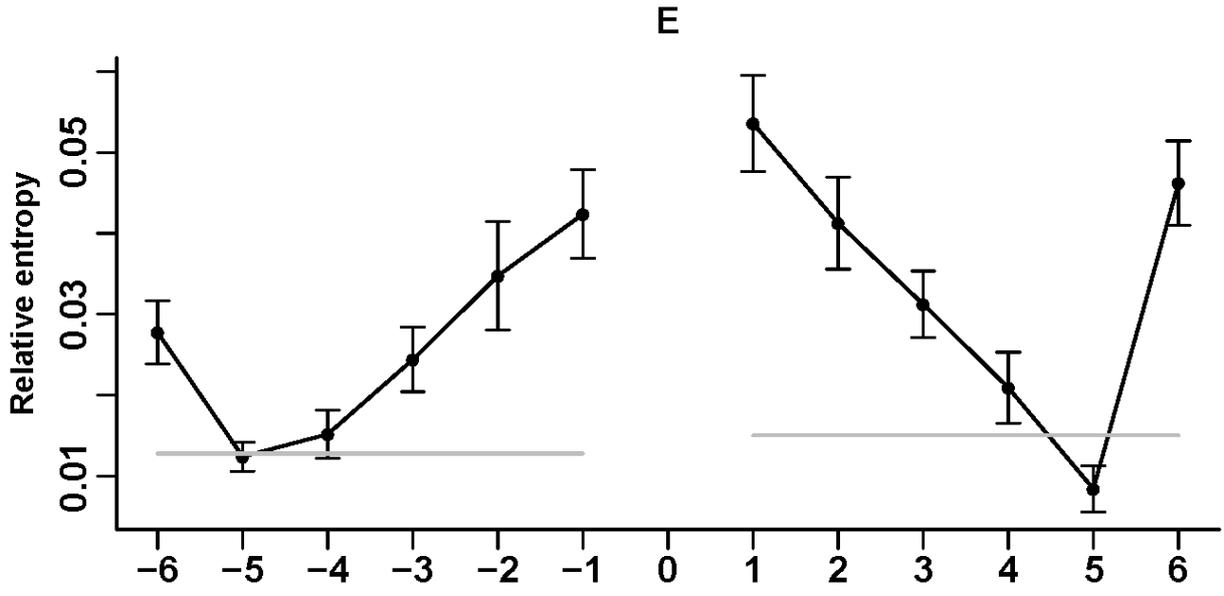


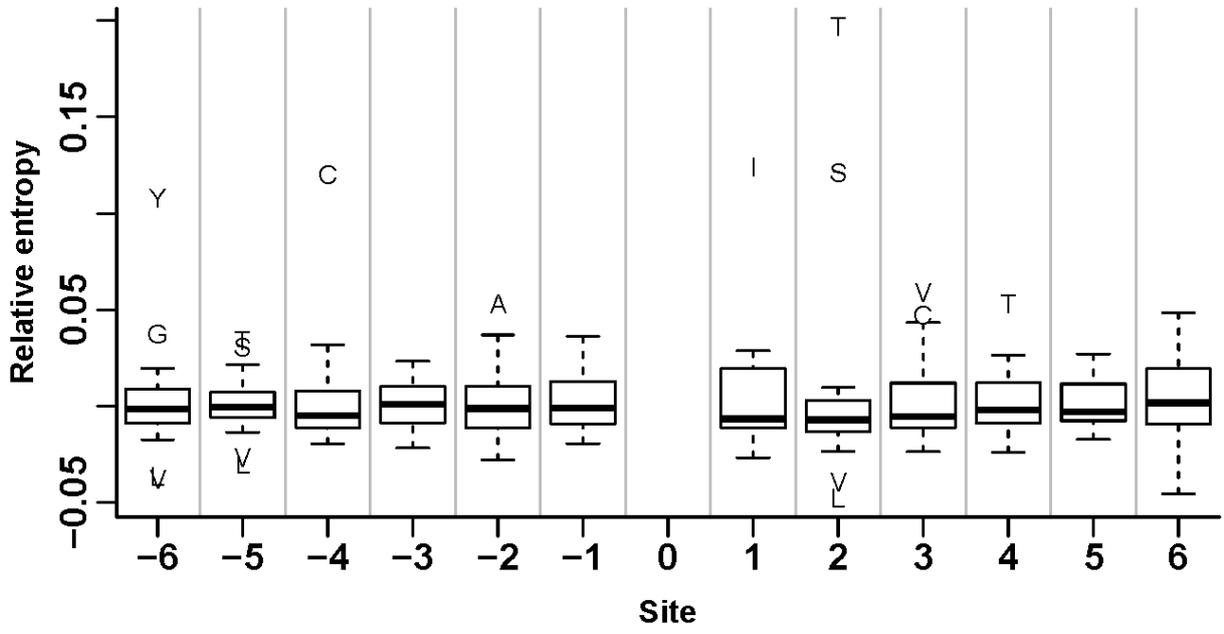
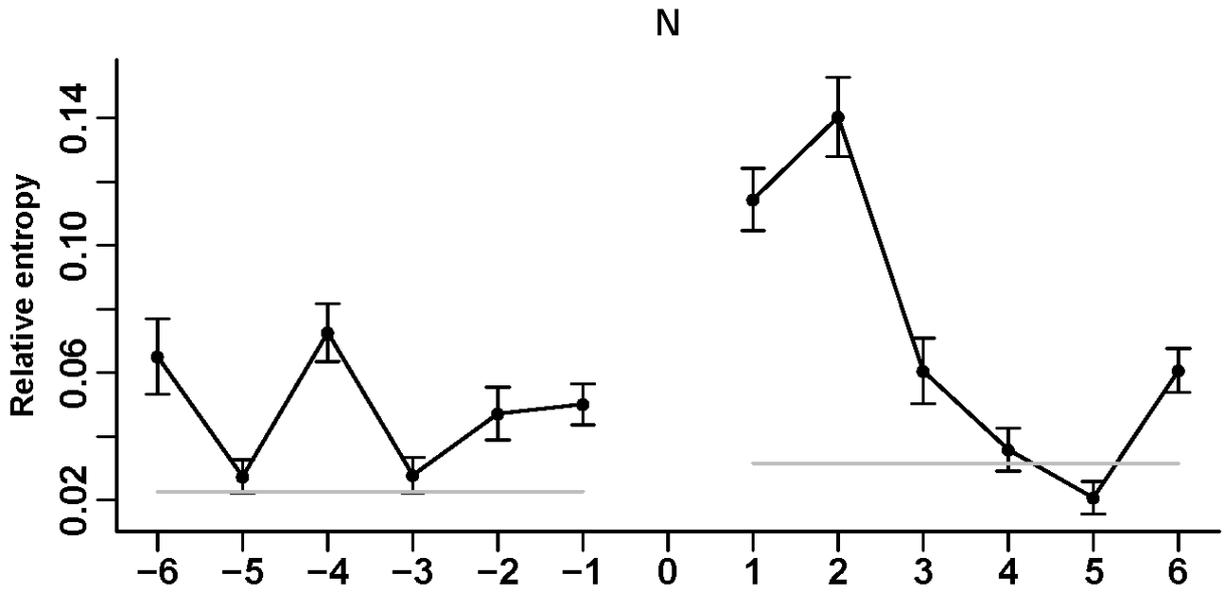


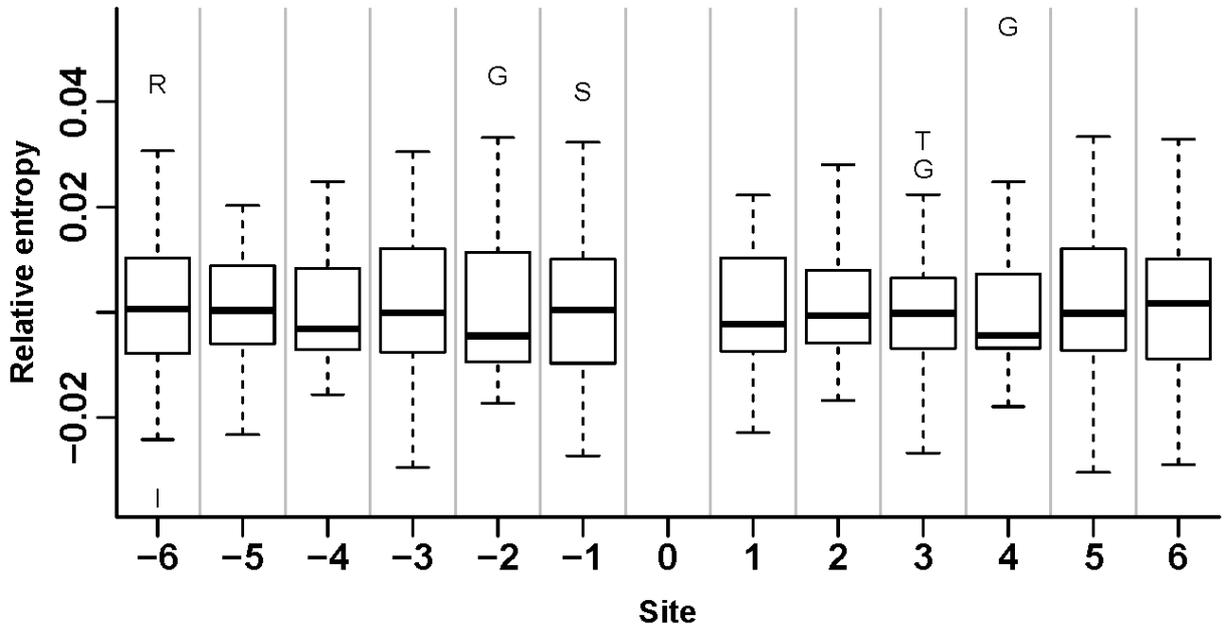
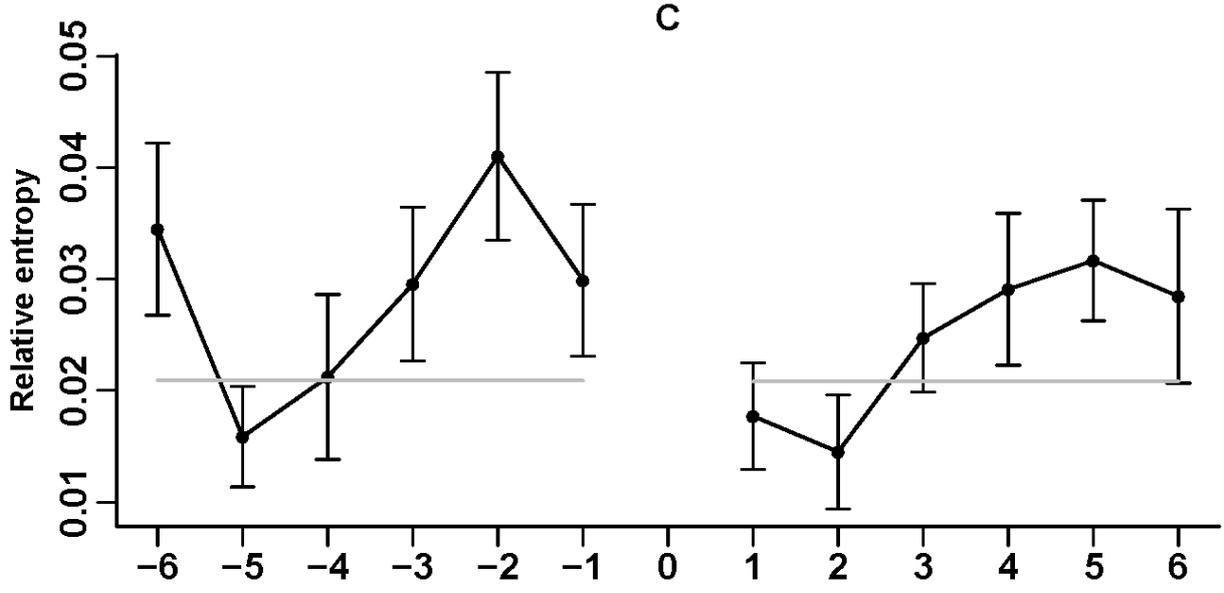
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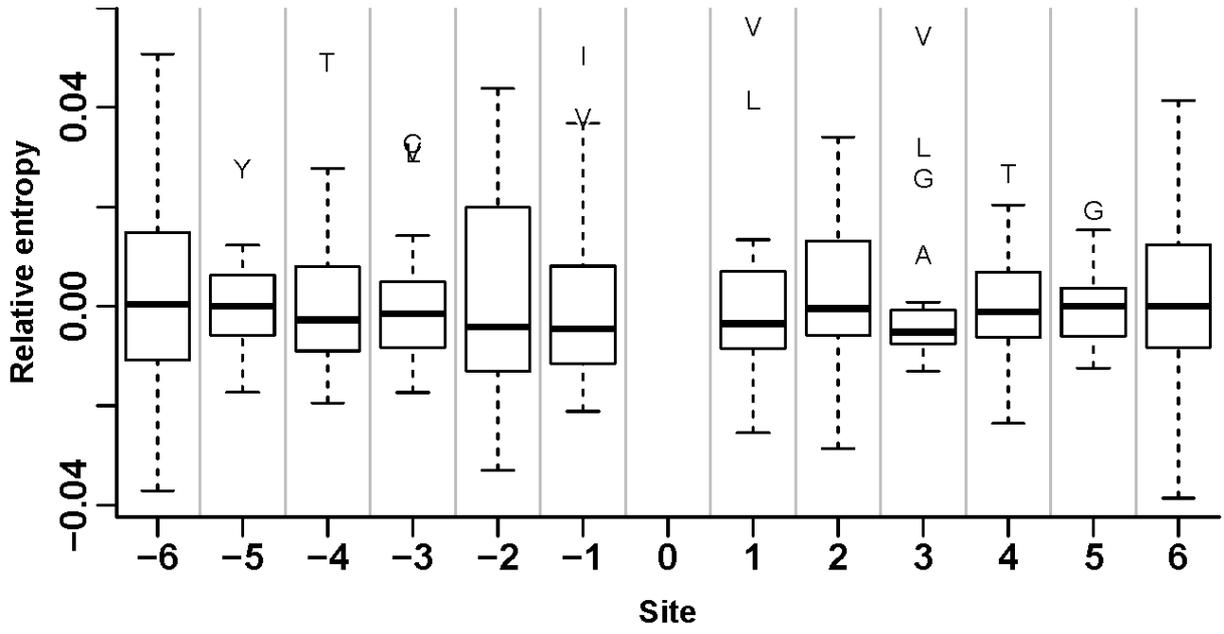
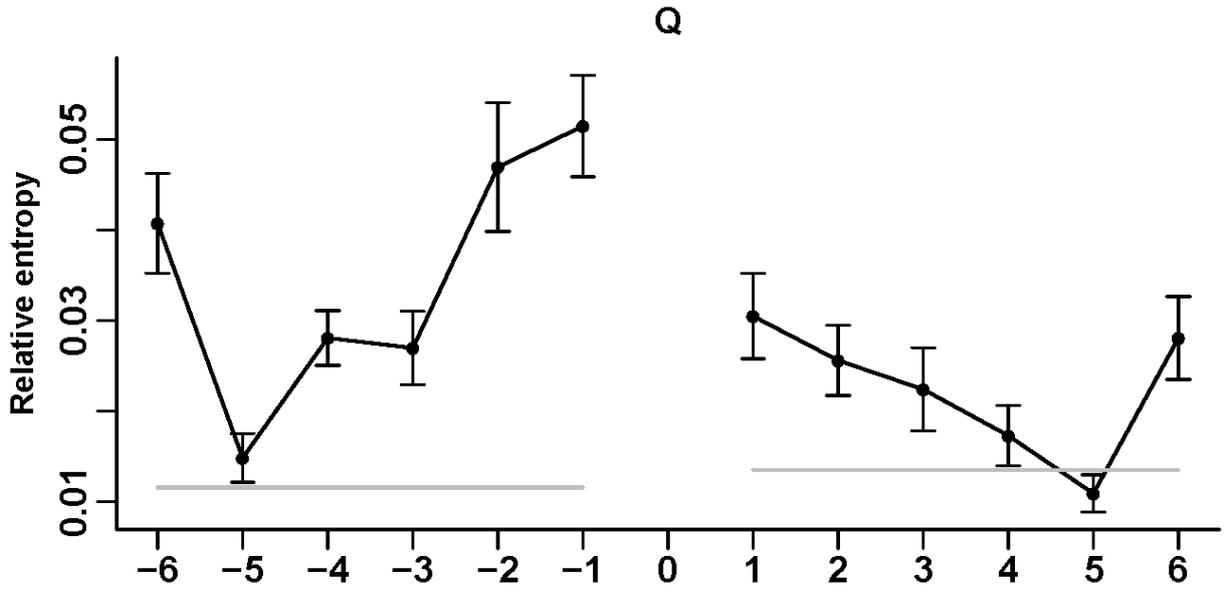


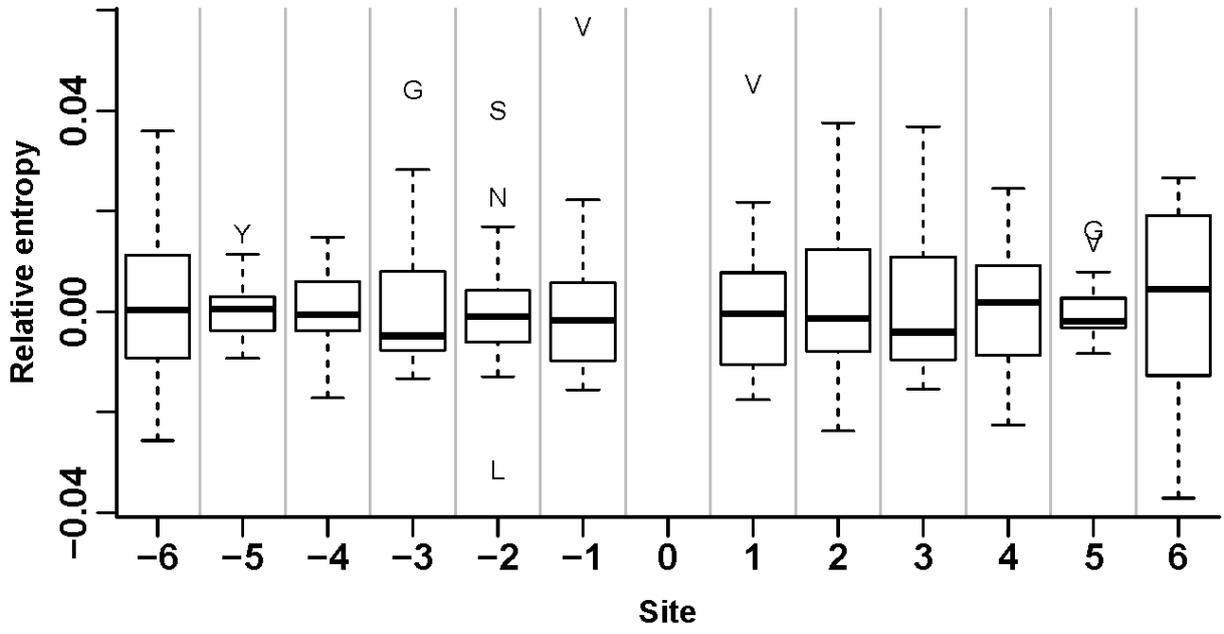
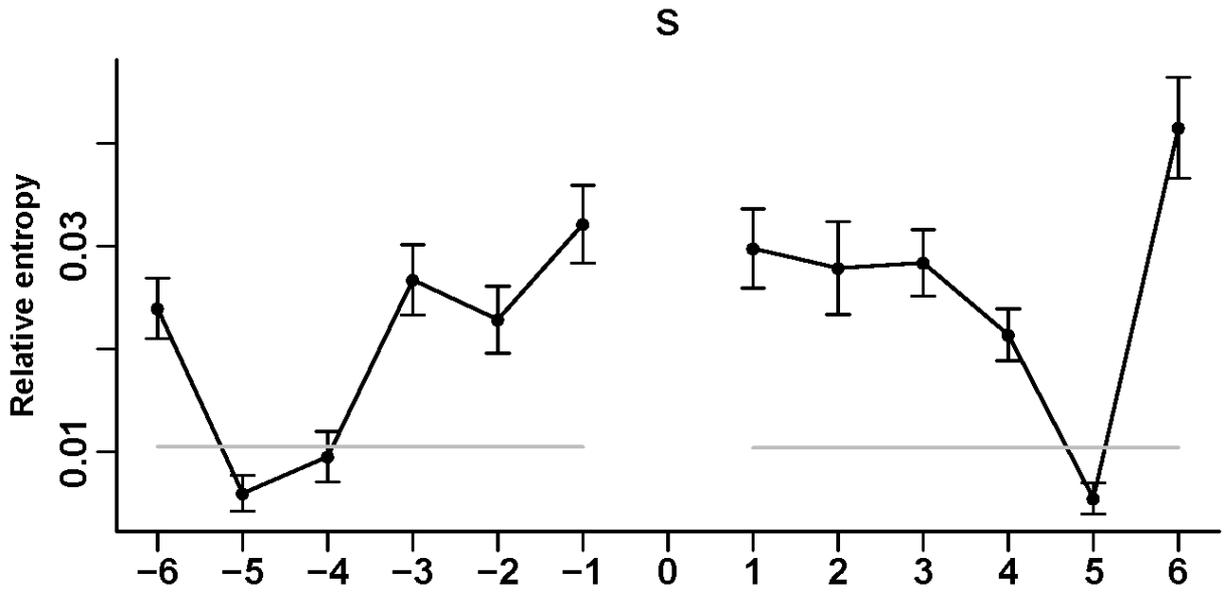


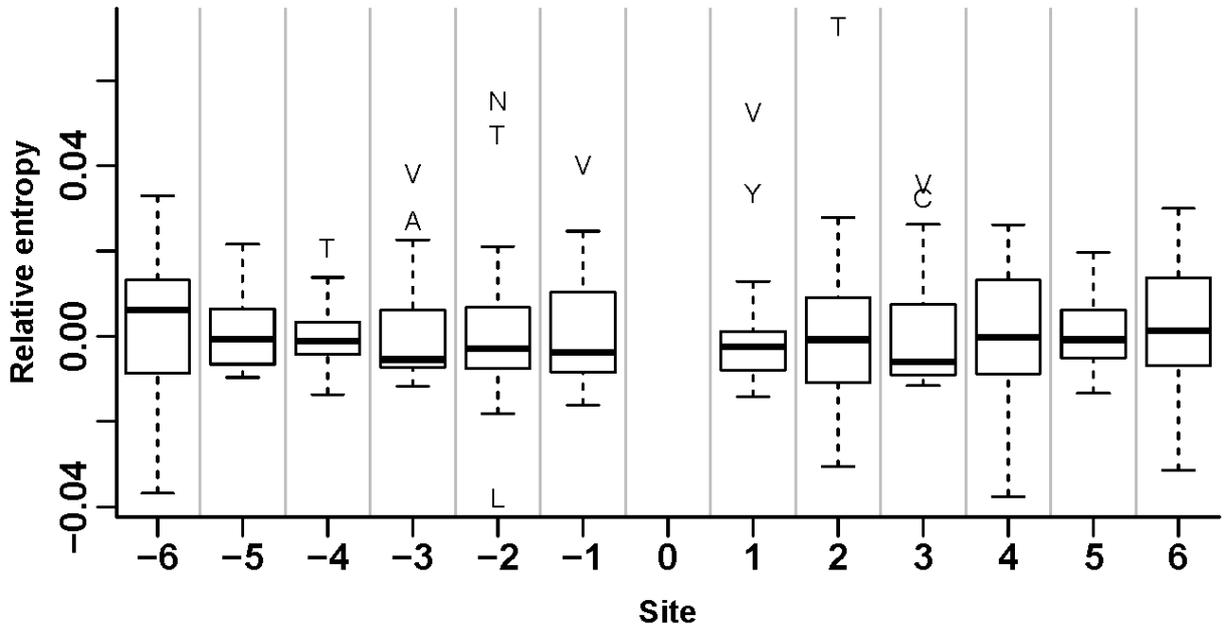
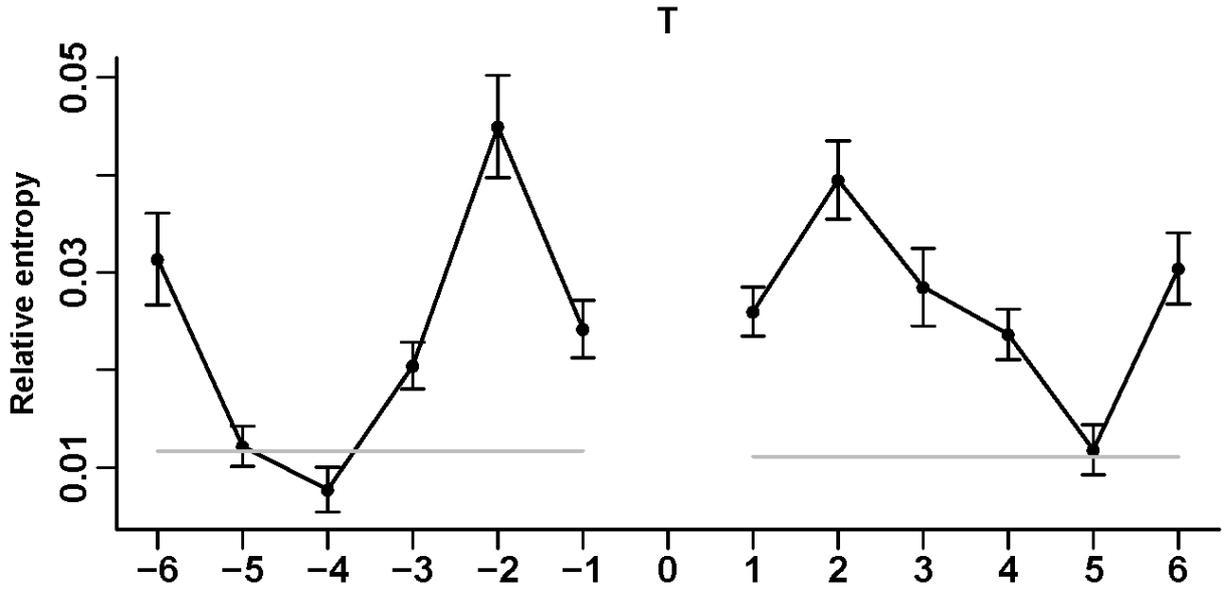












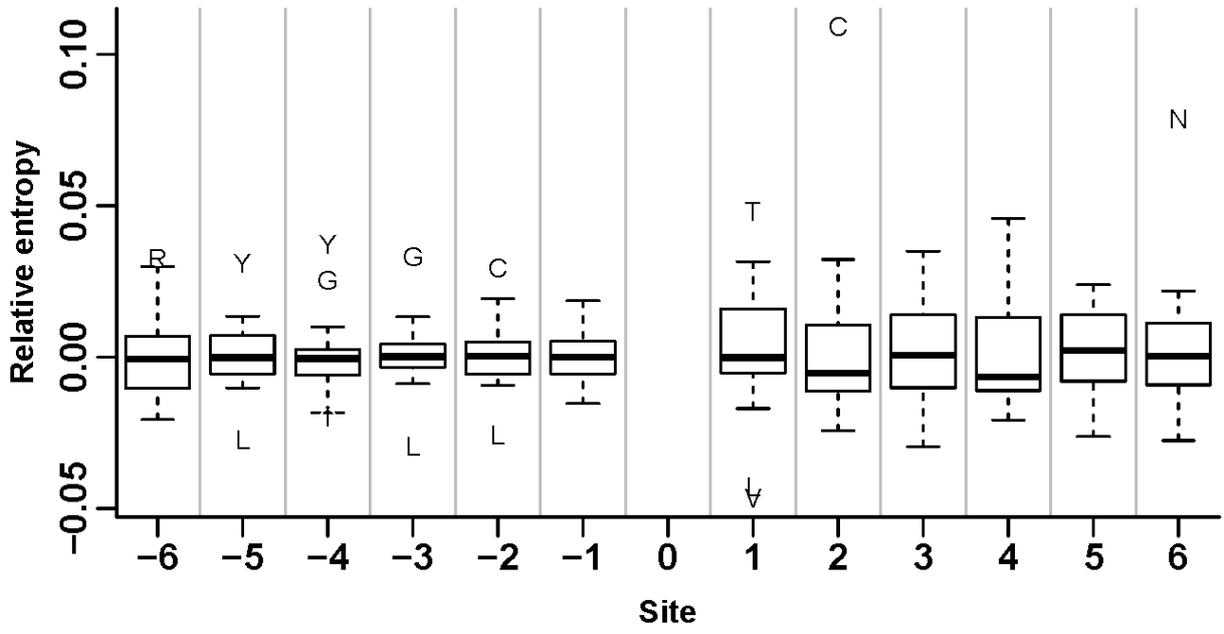
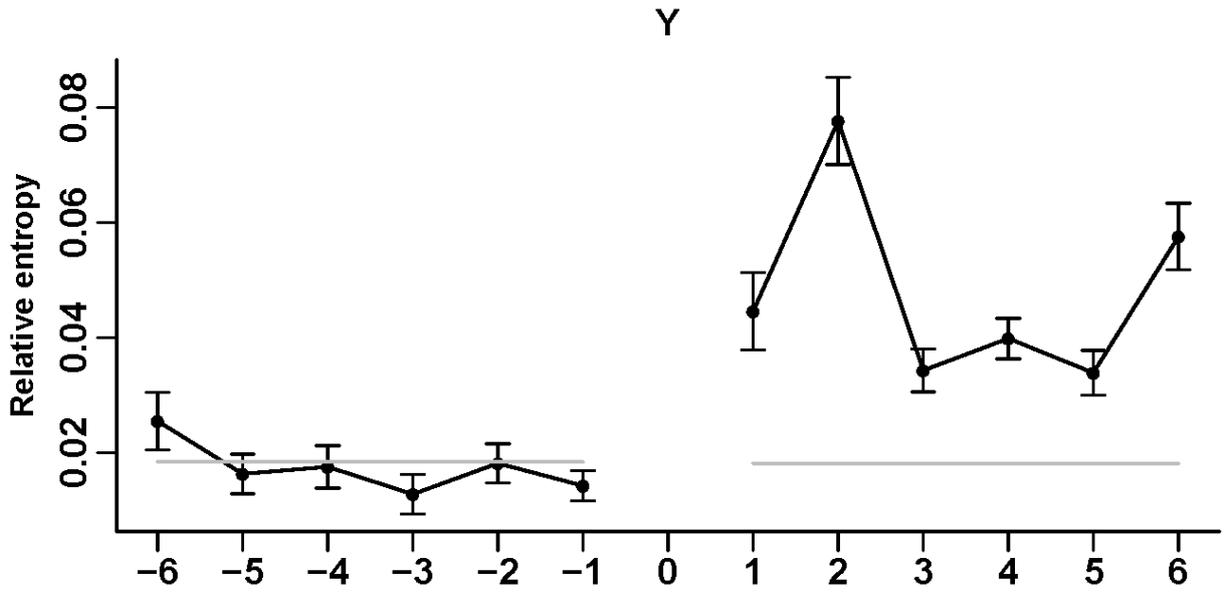
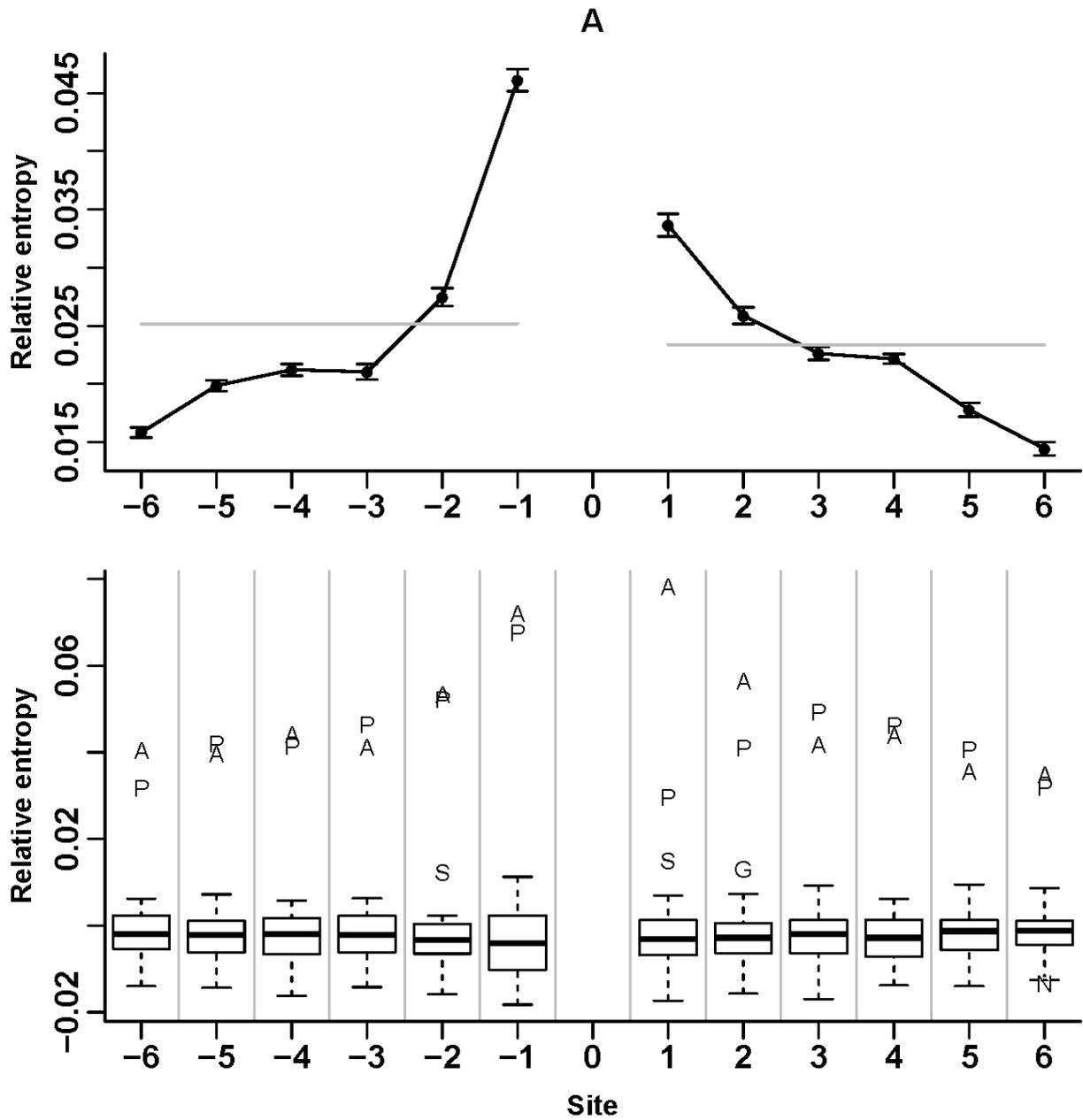
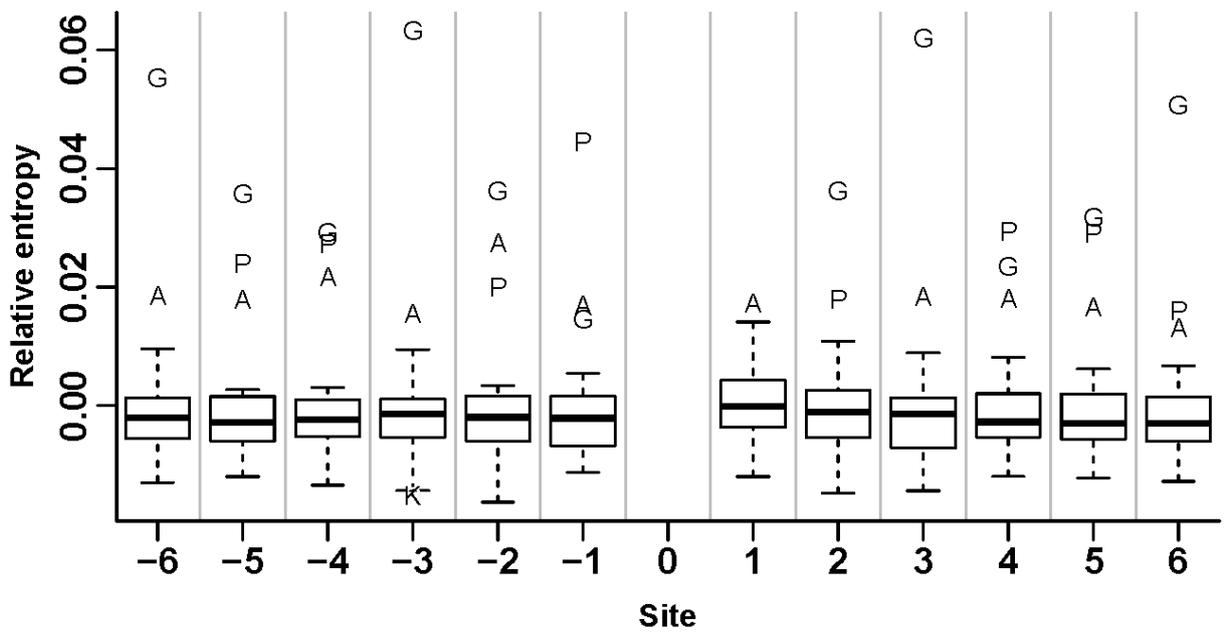
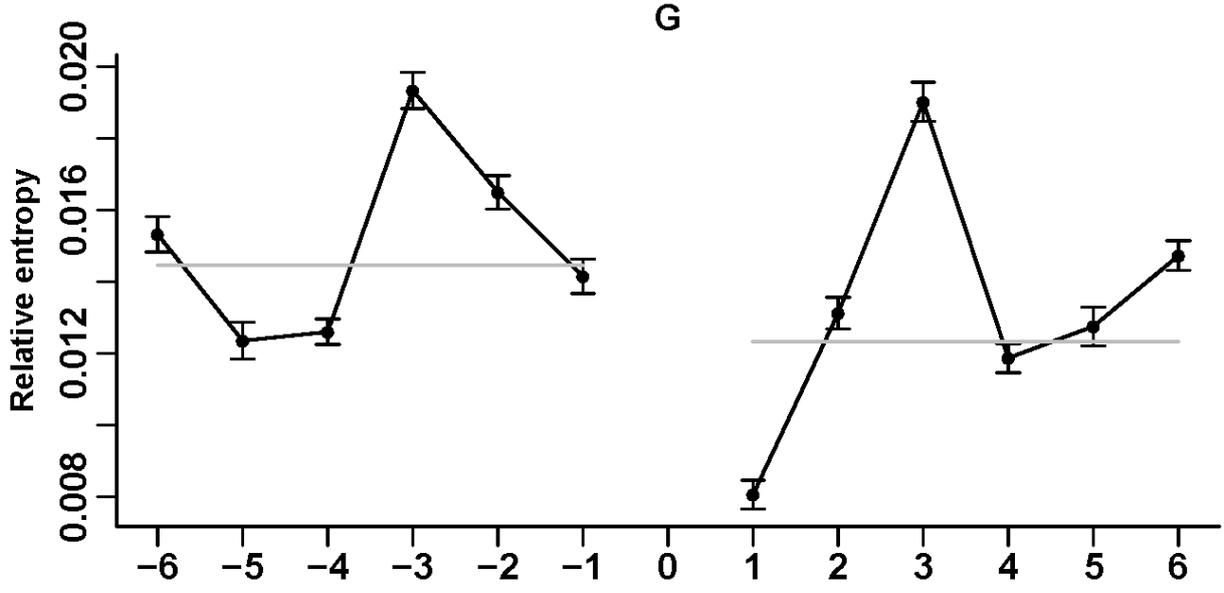
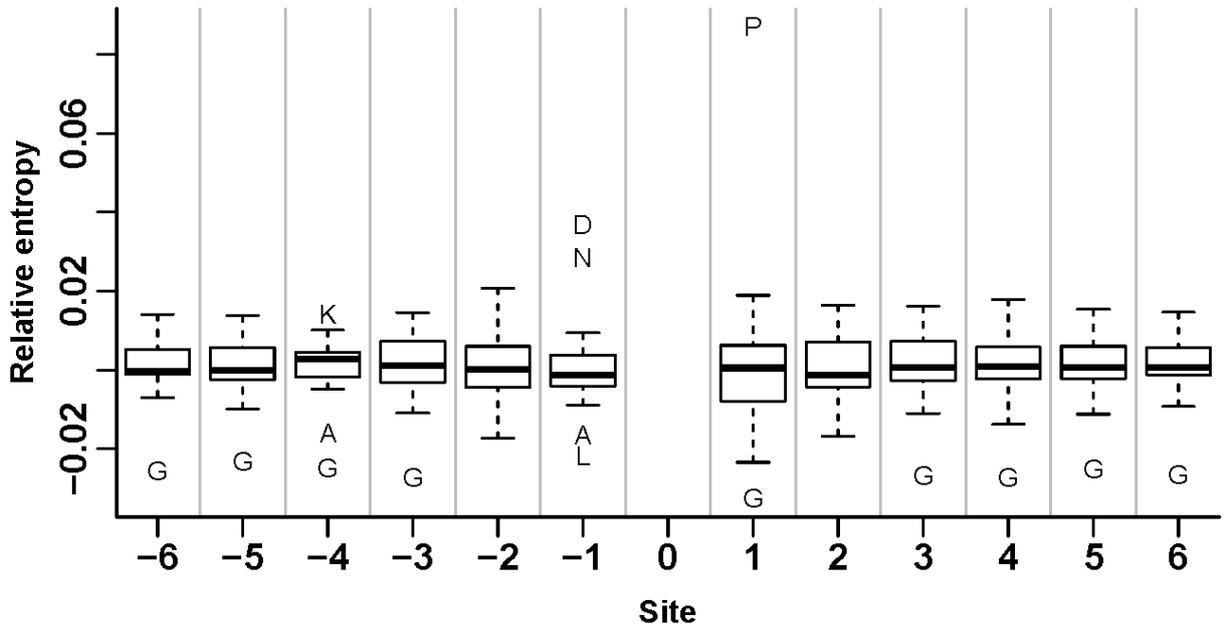
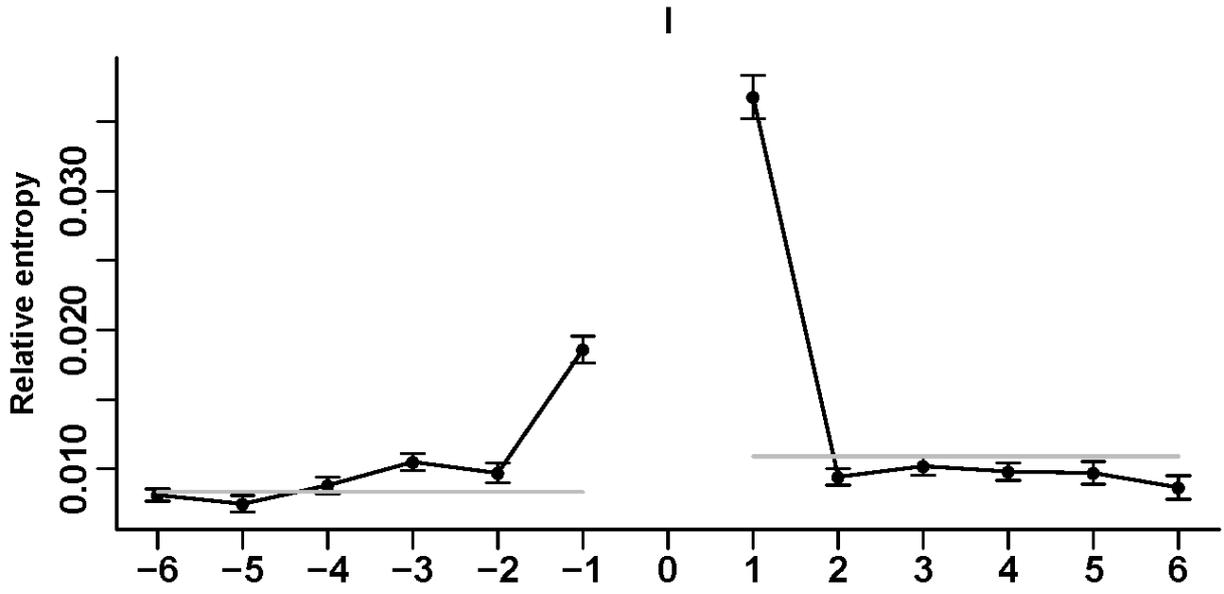
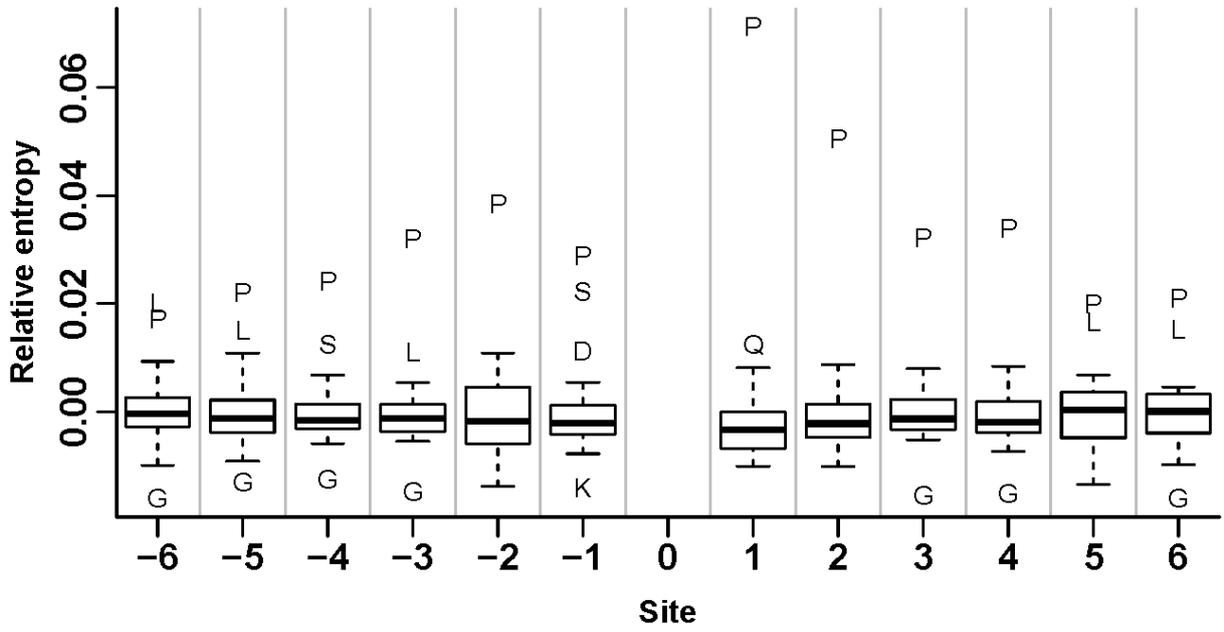
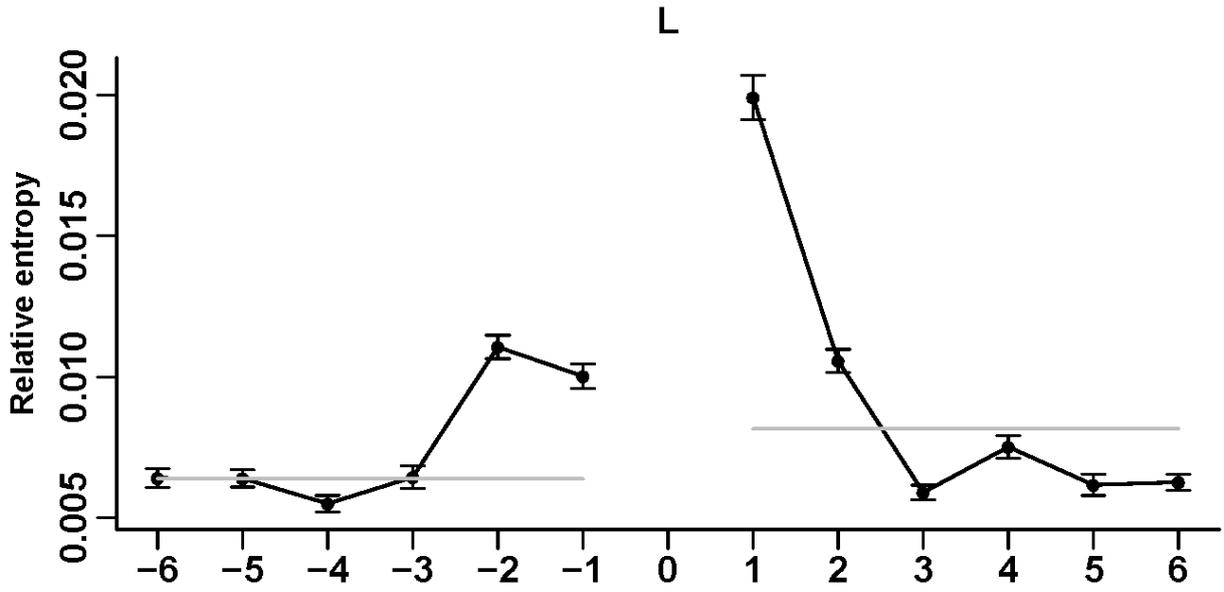


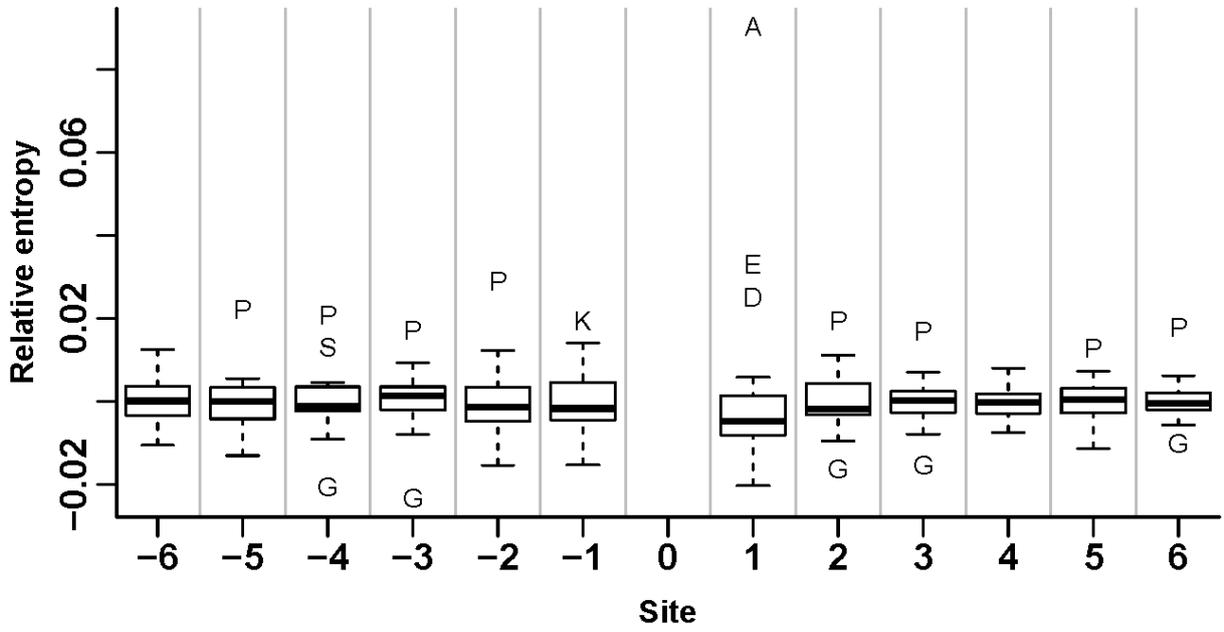
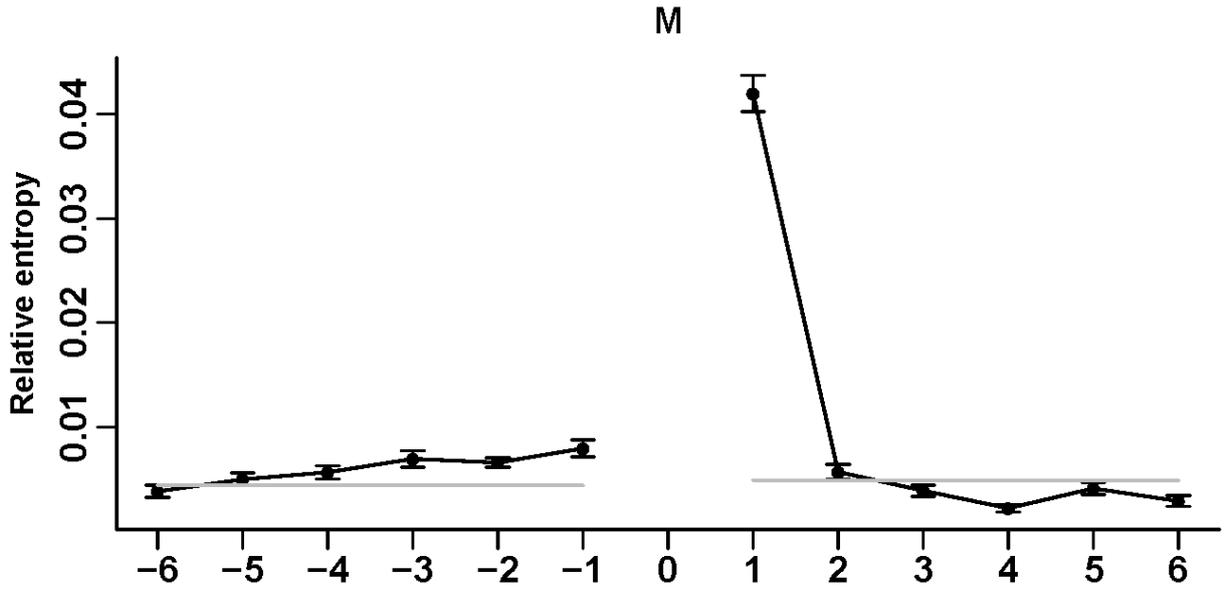
Figure S4. Neighbor preference patterns of the 20 amino acids in coil.

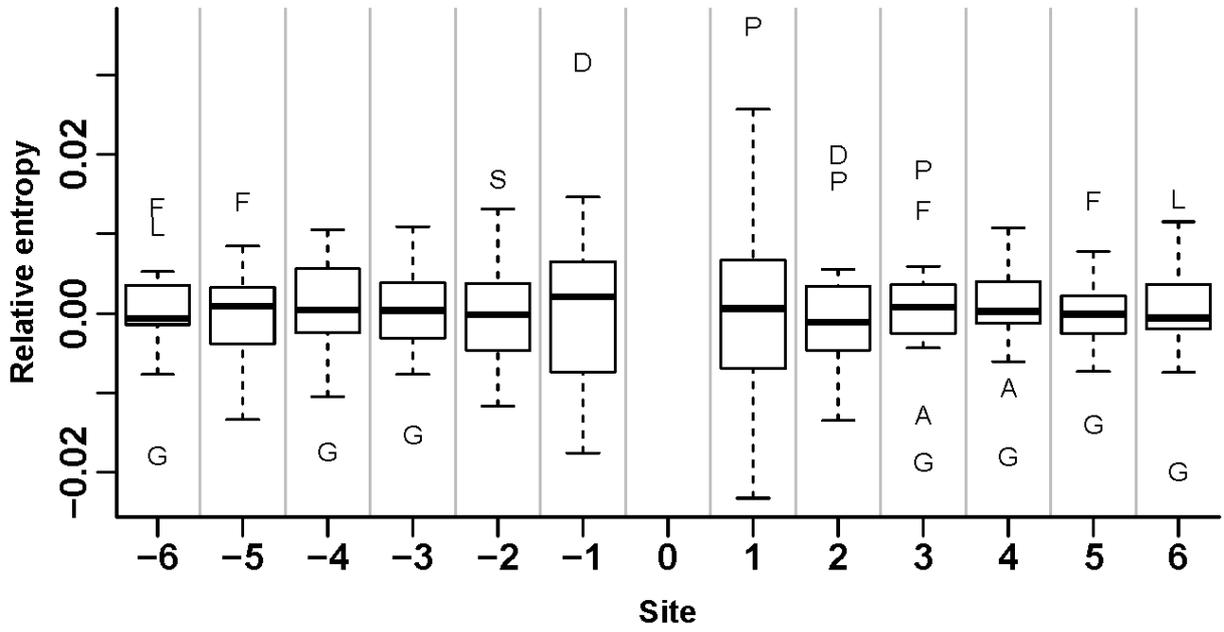
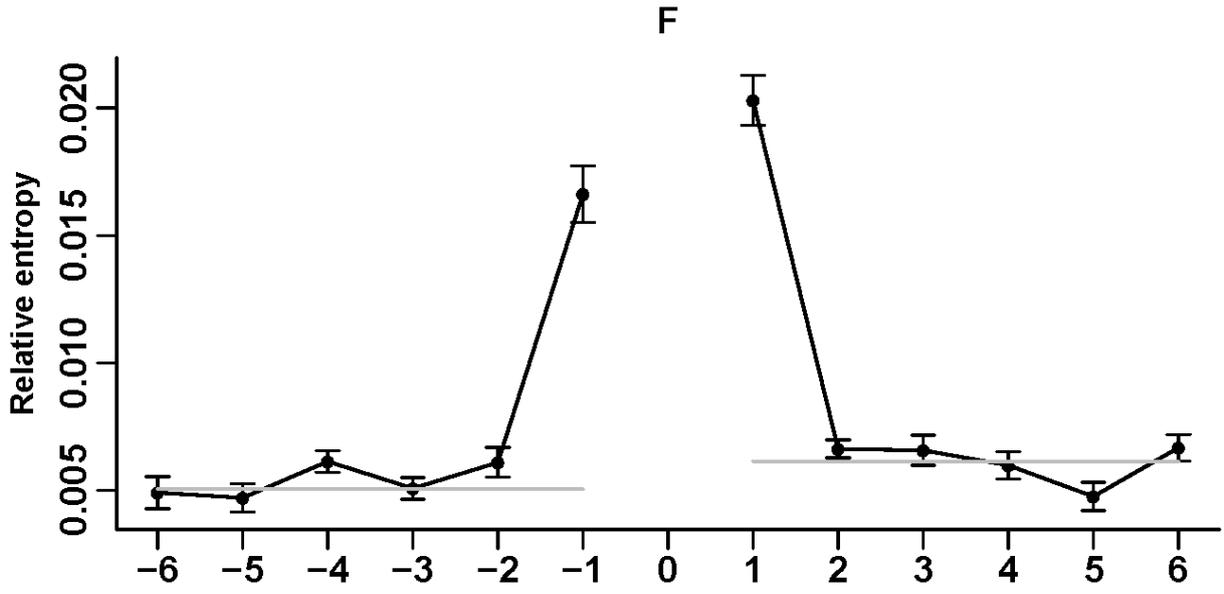


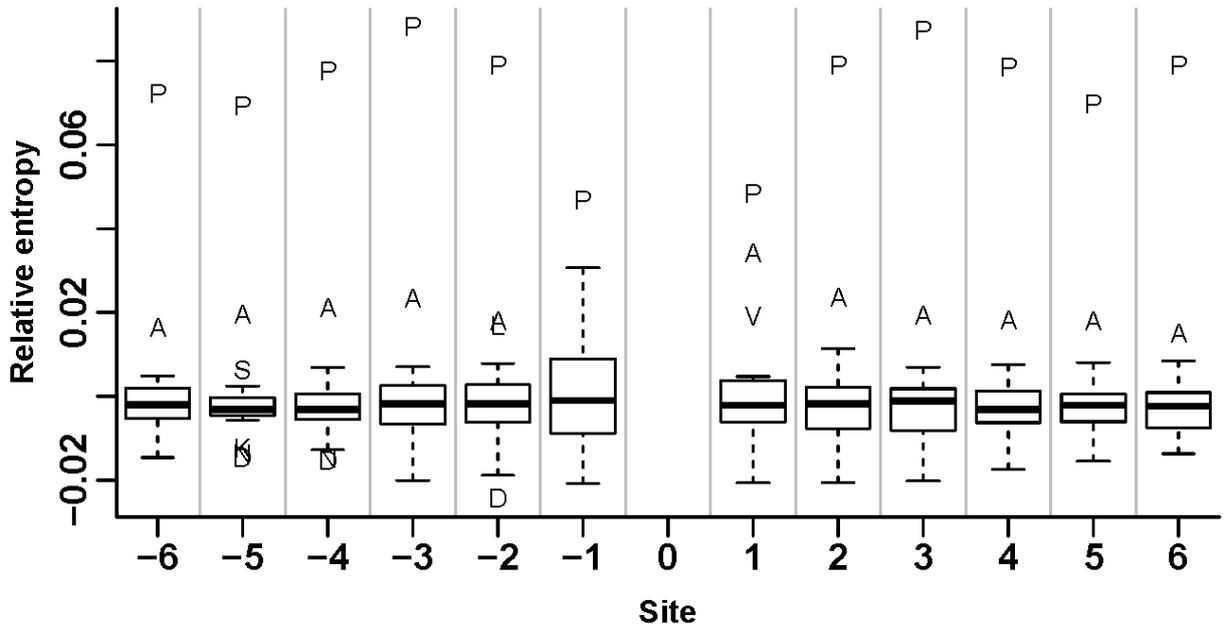
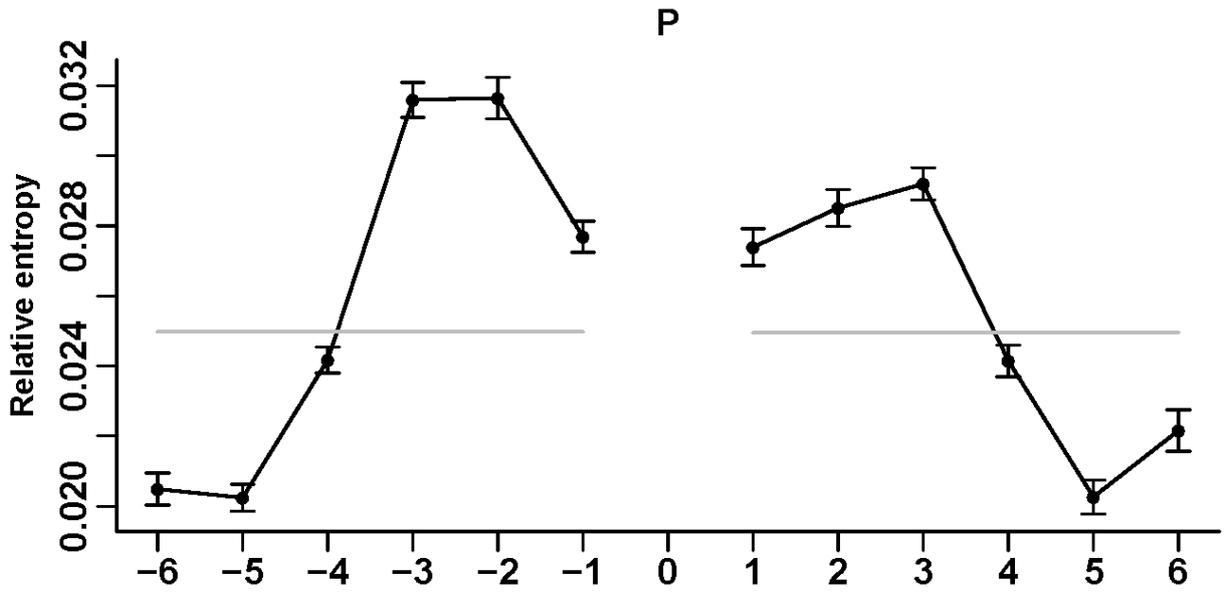


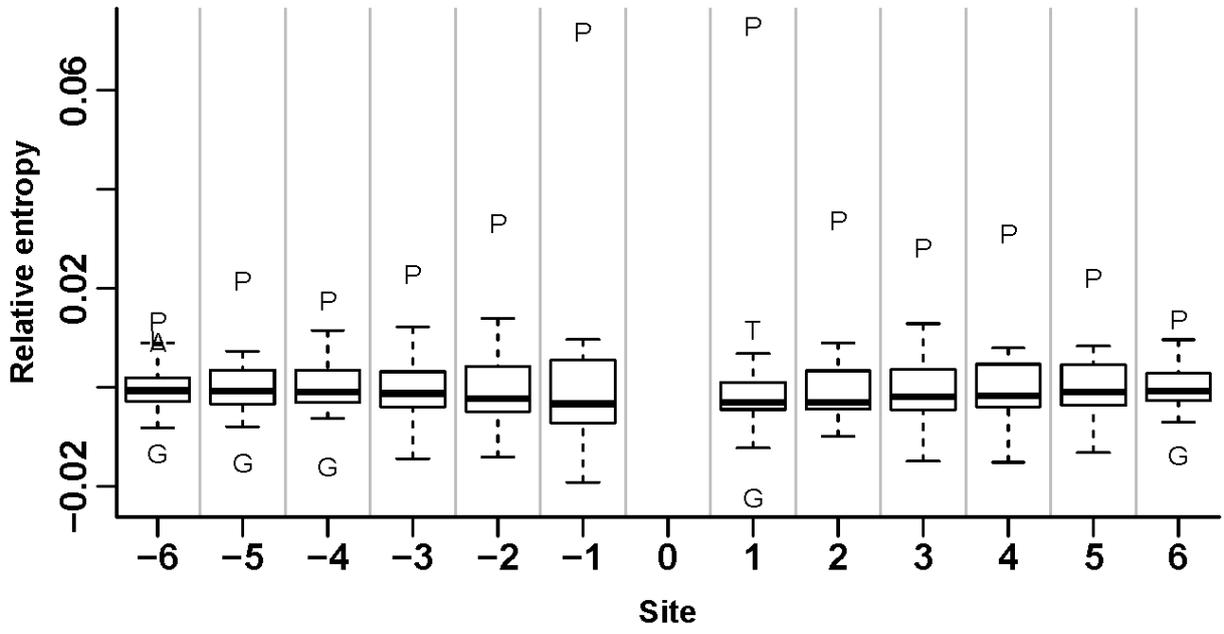
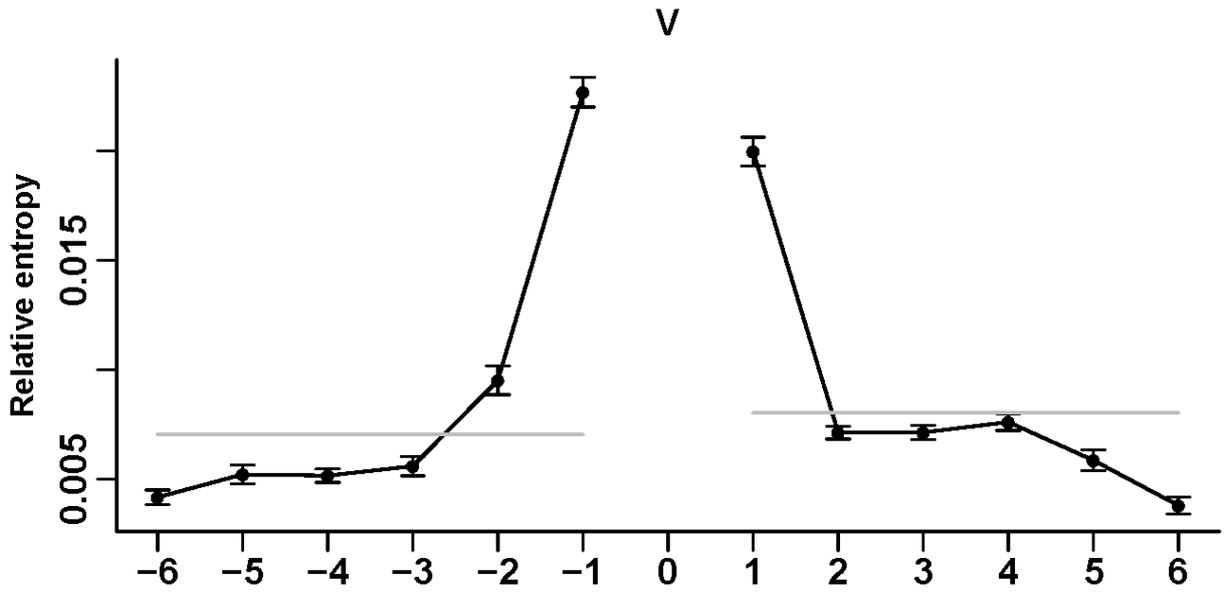


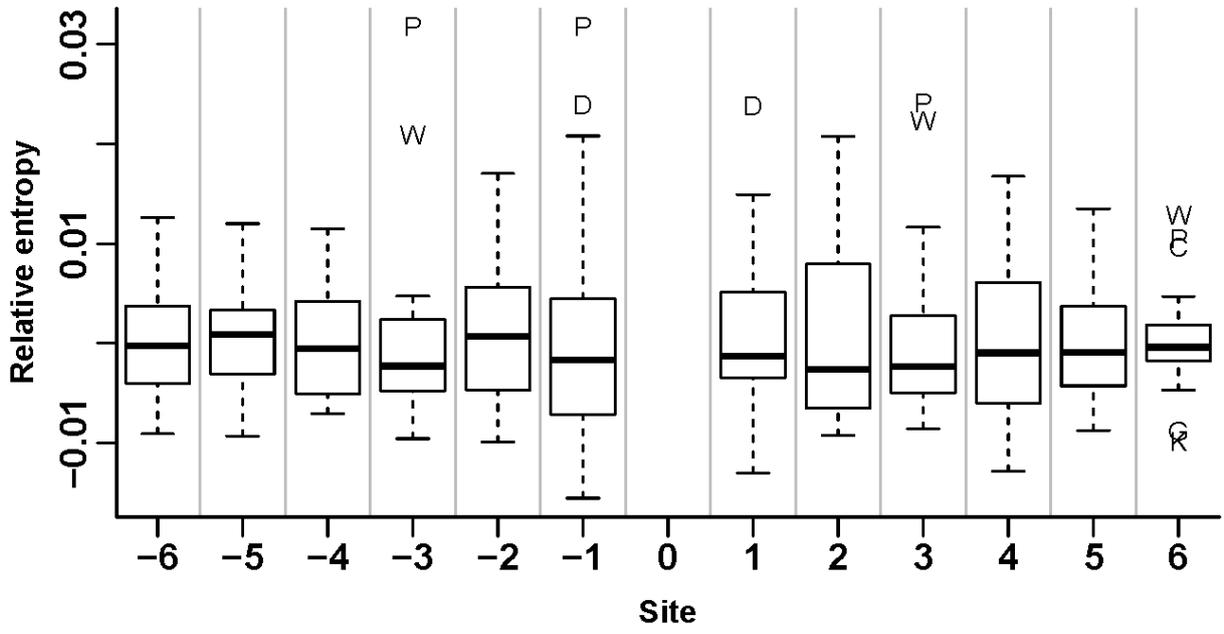
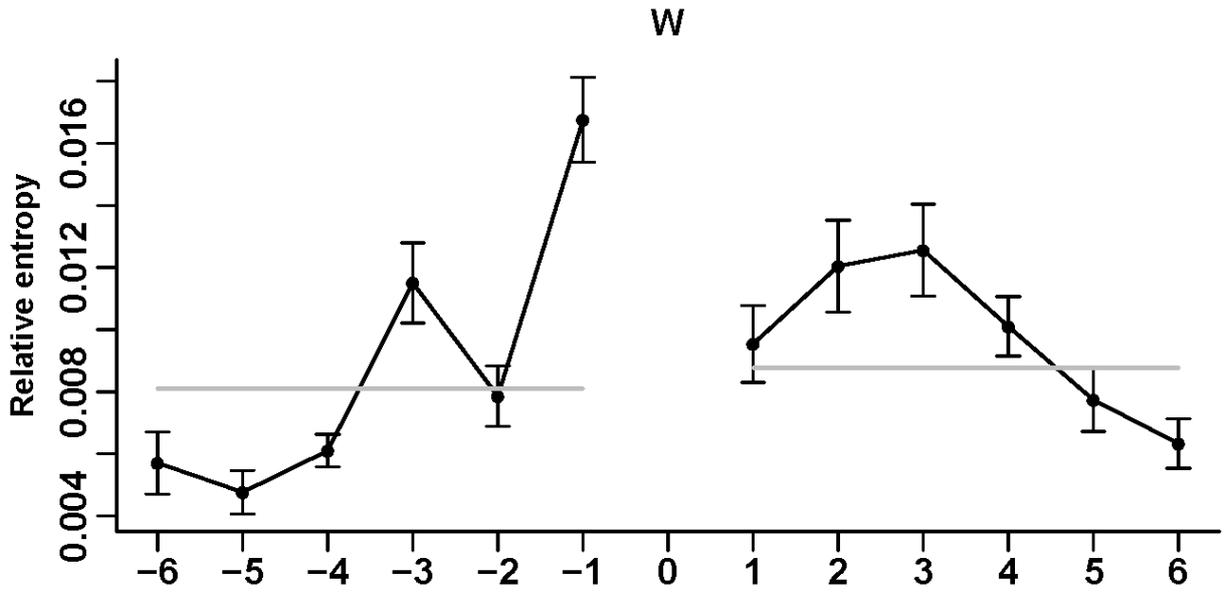


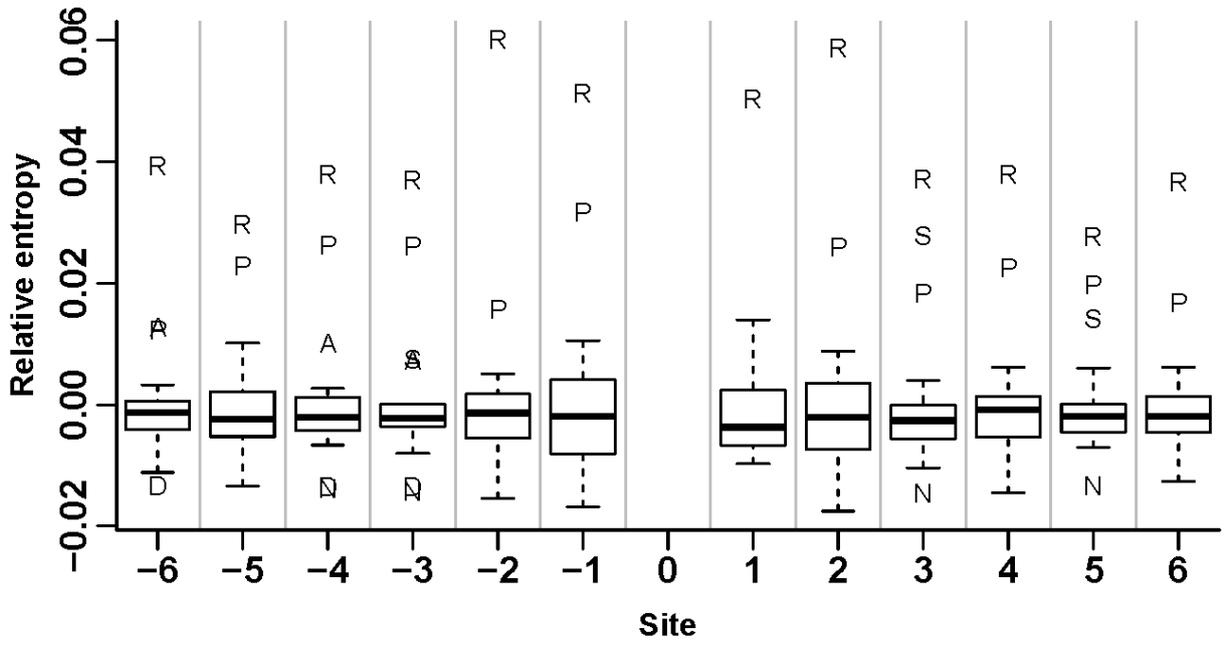
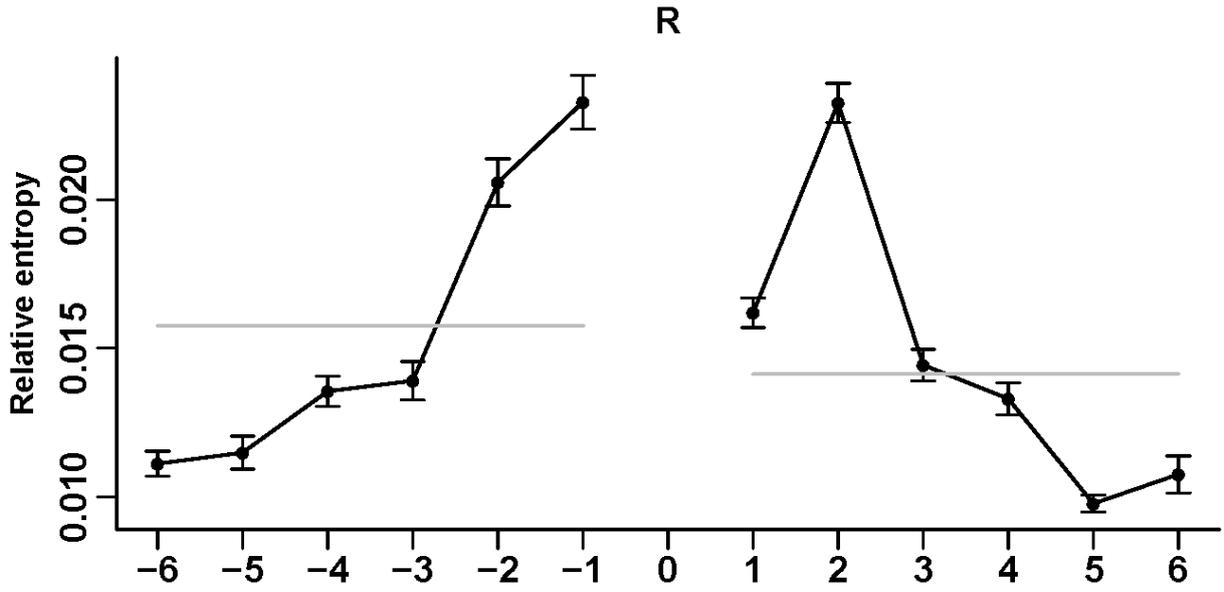


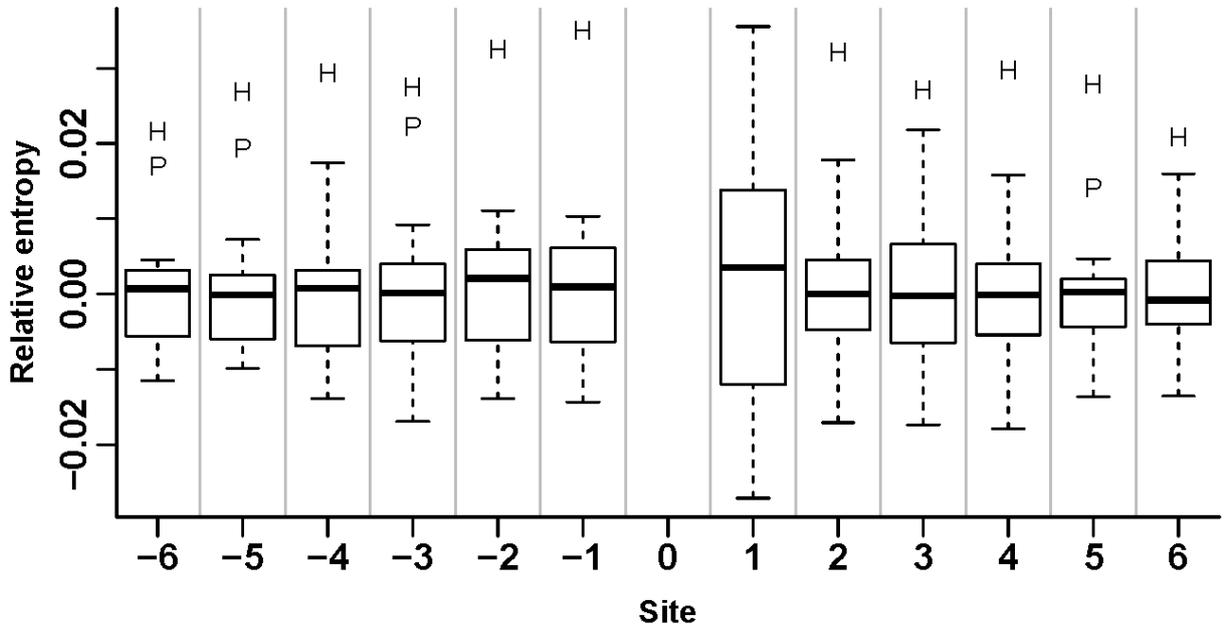
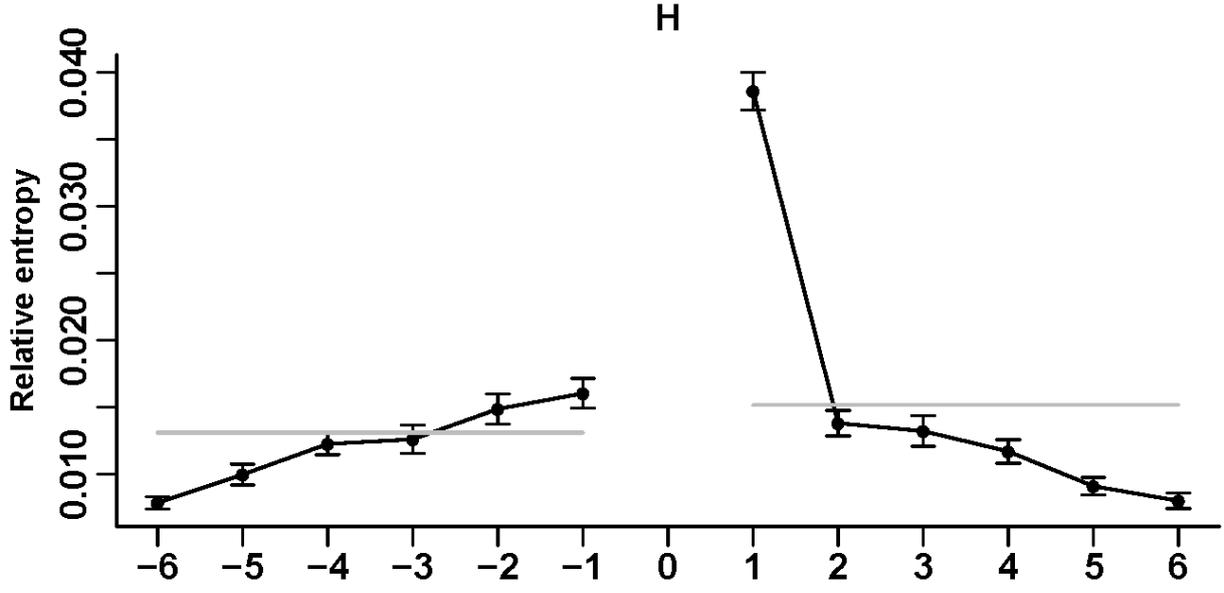


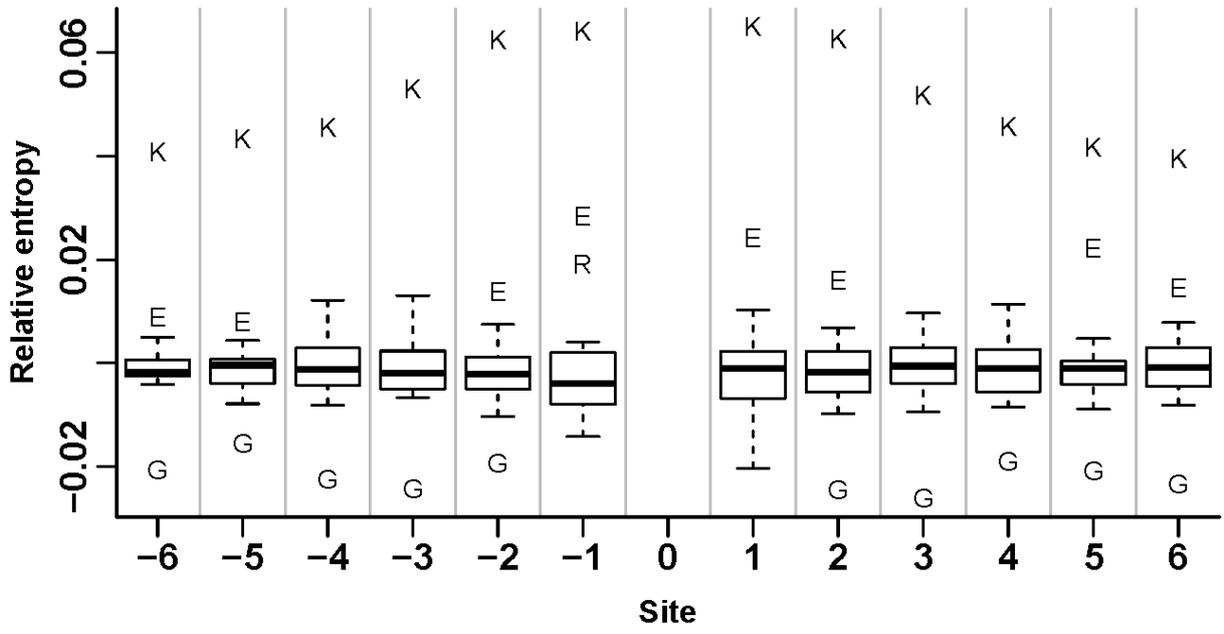
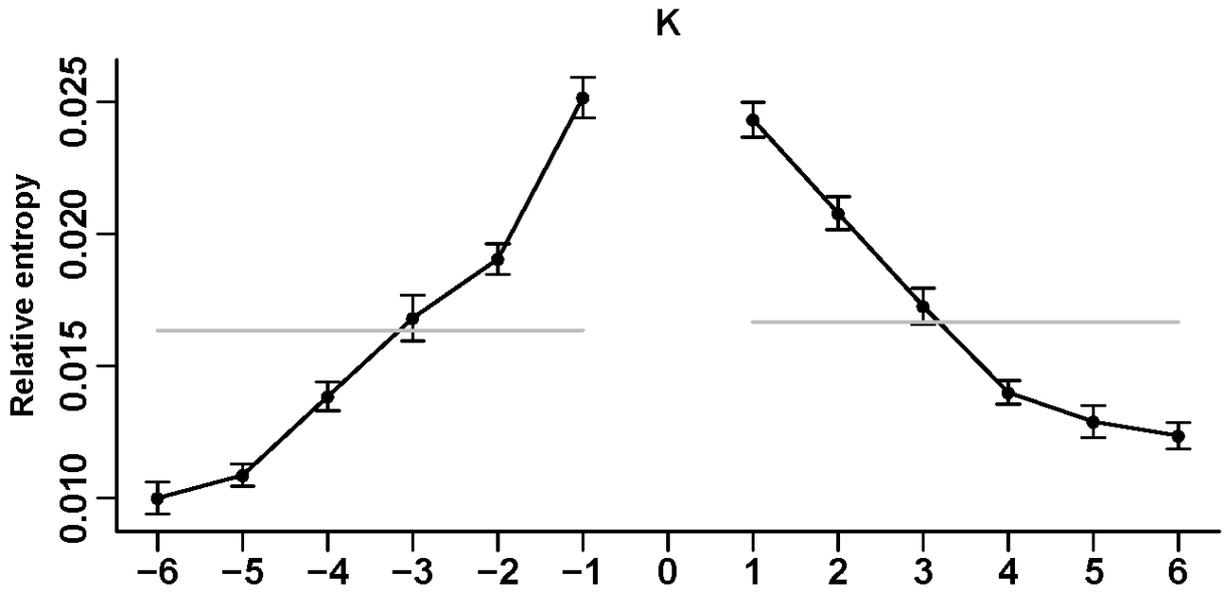


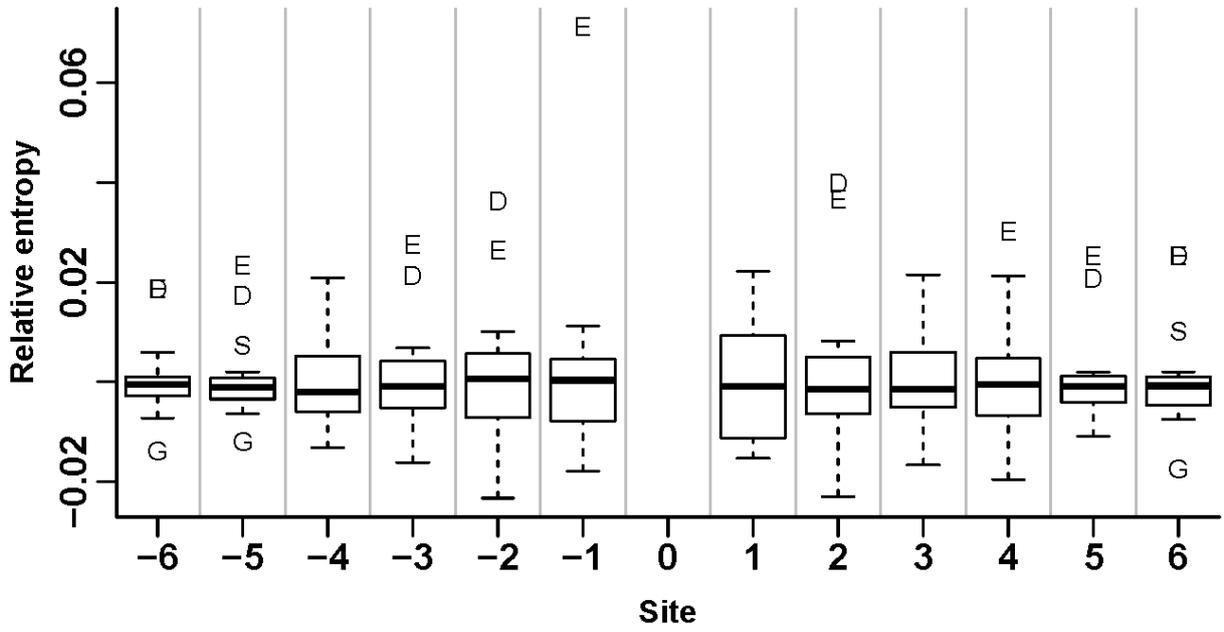
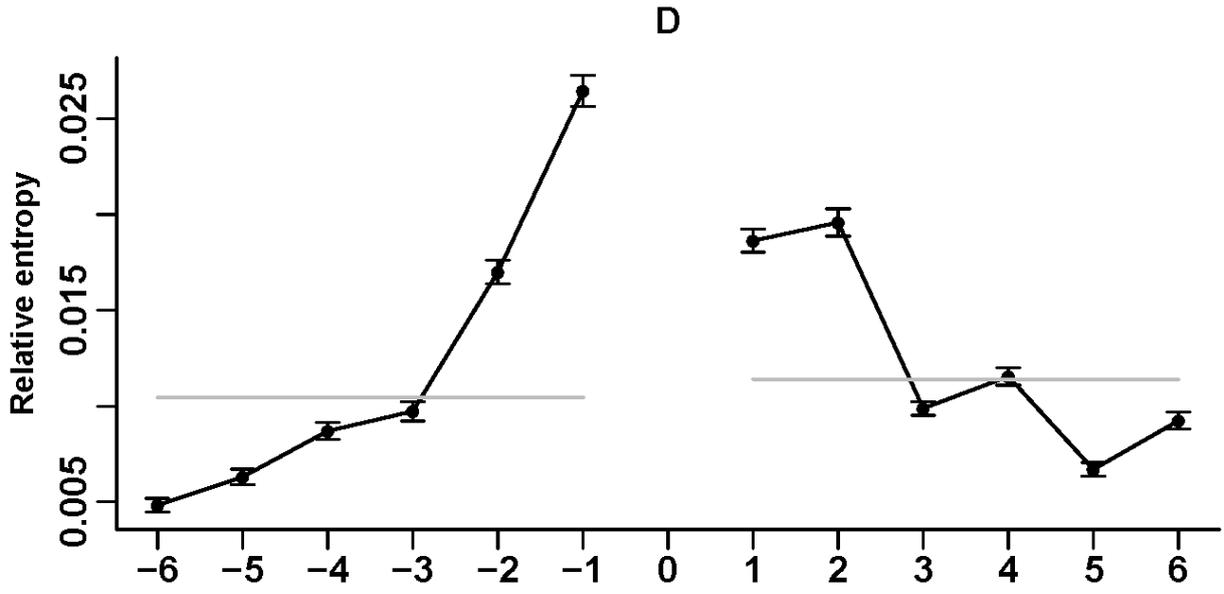


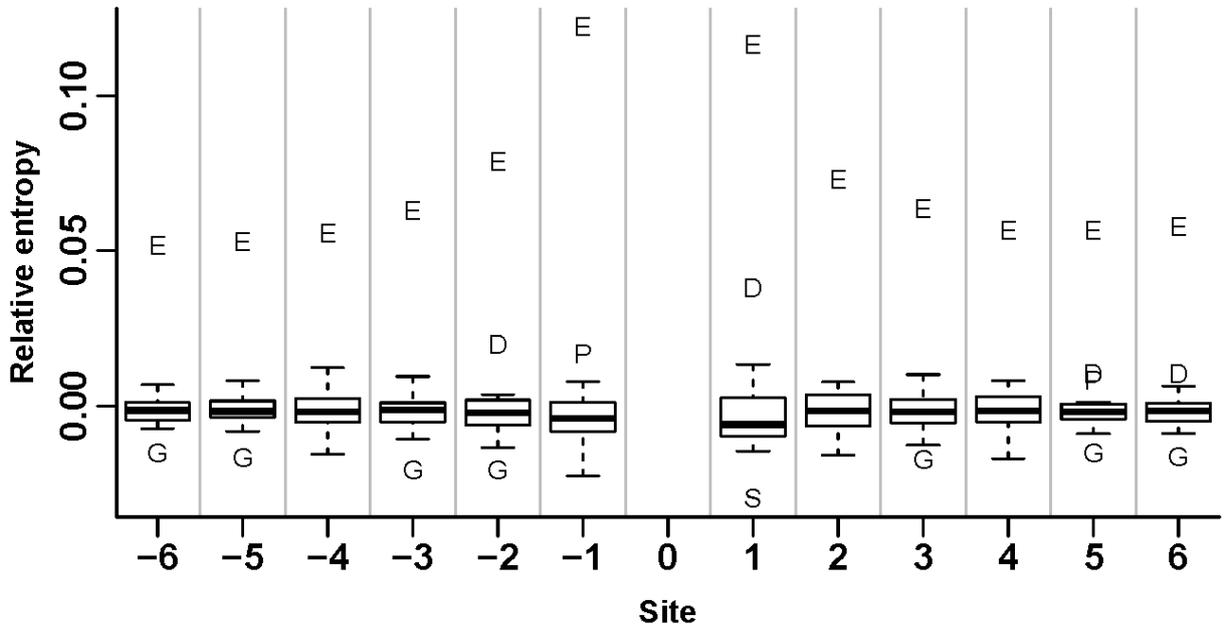
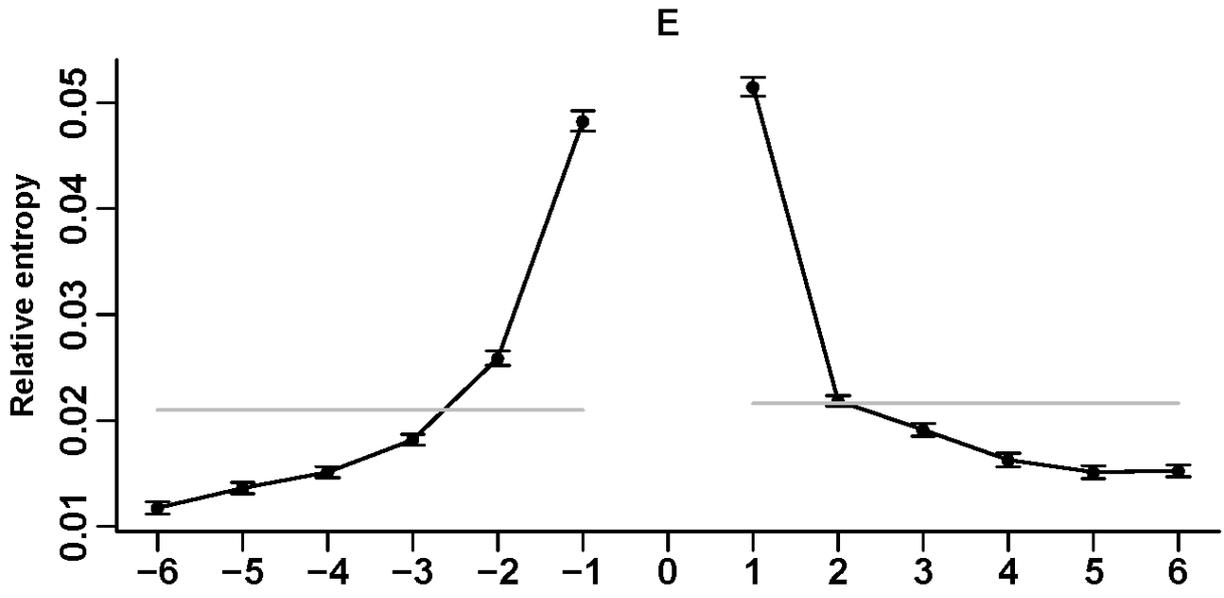


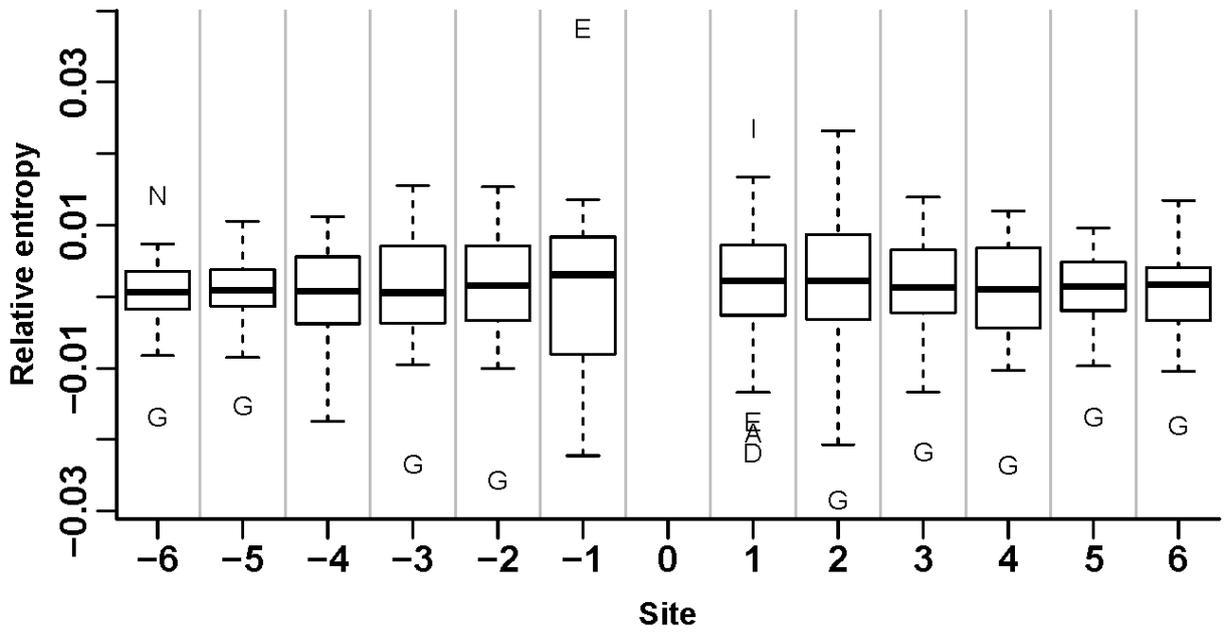
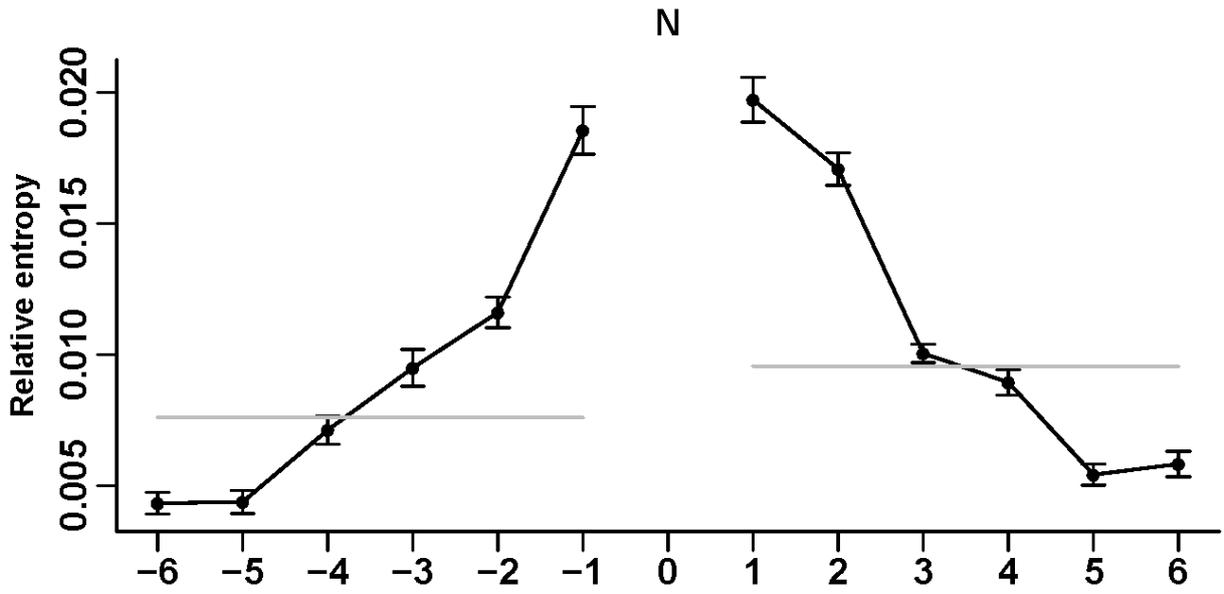




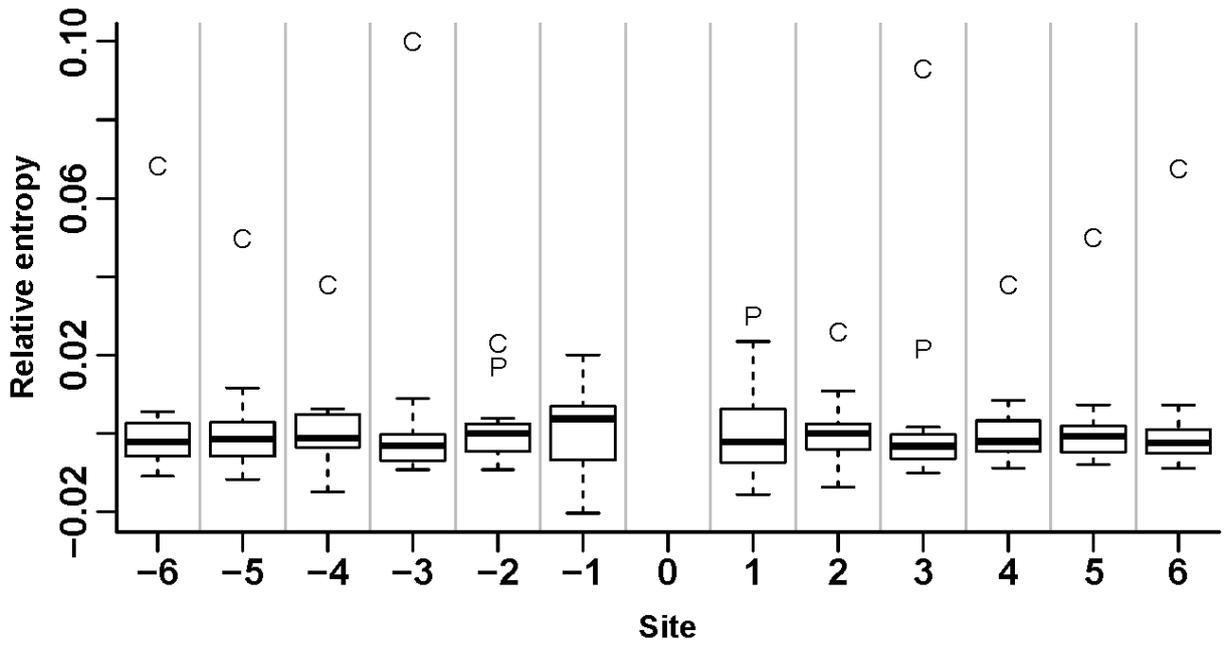
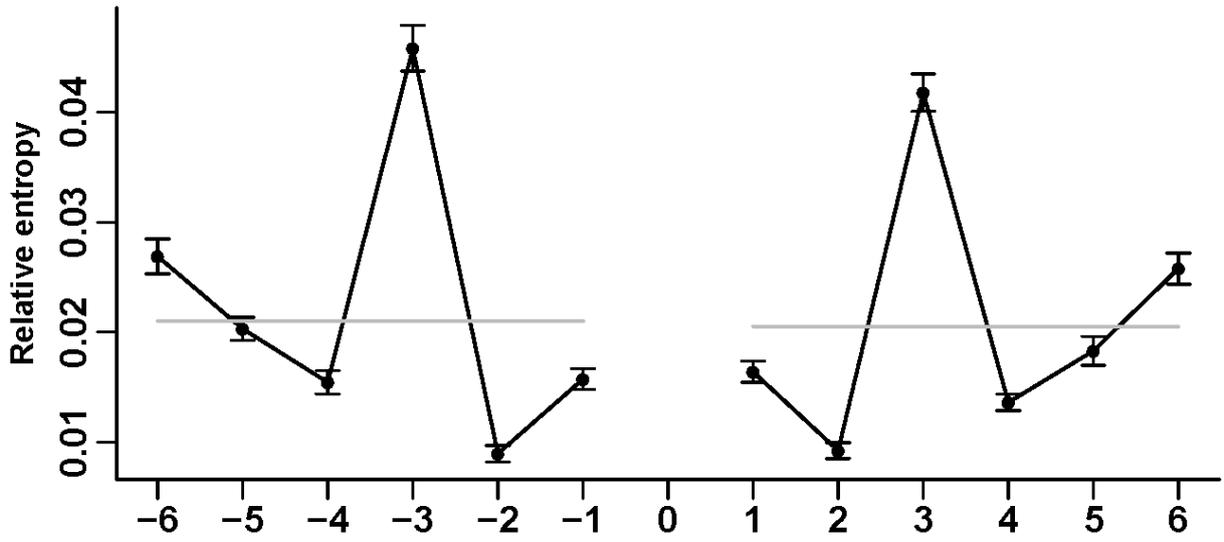


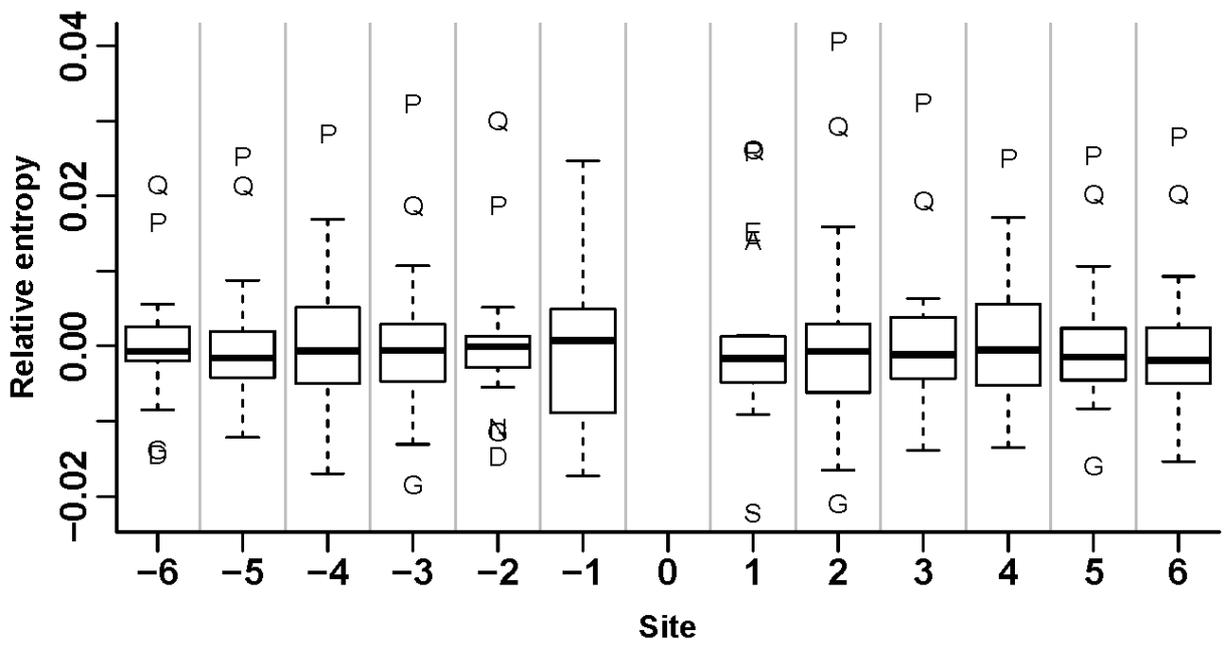
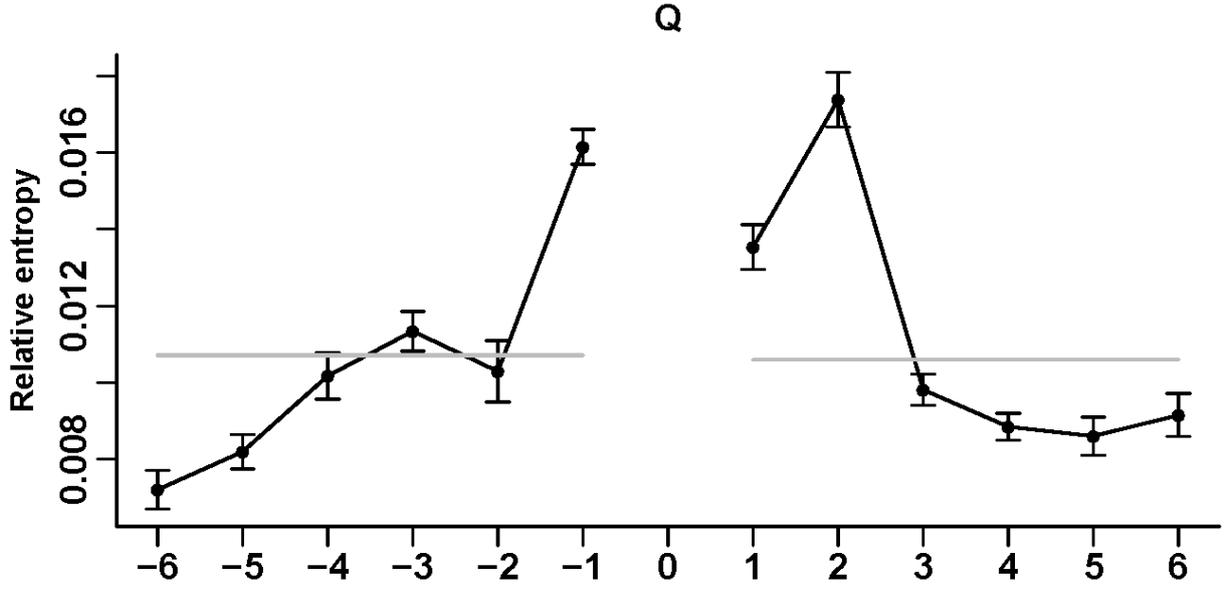


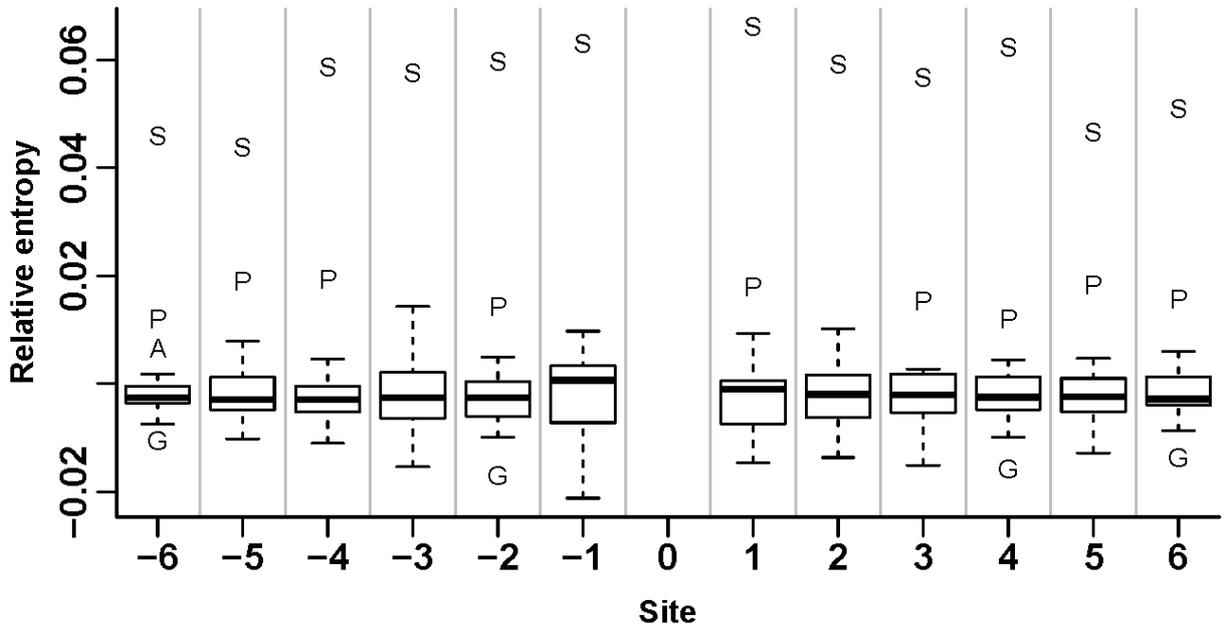
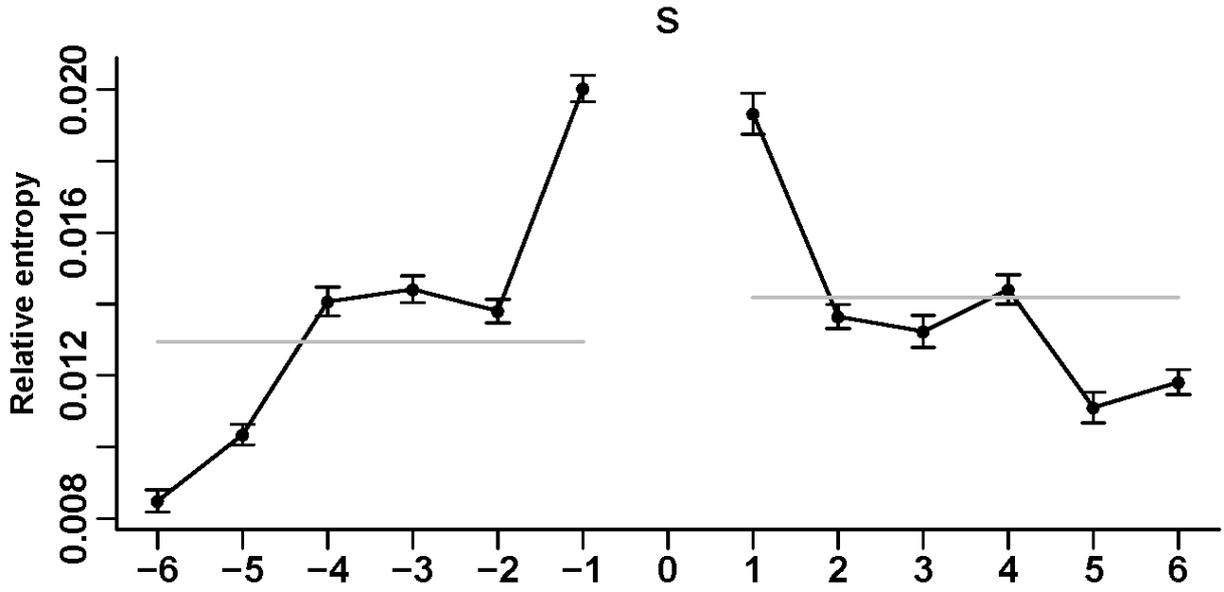


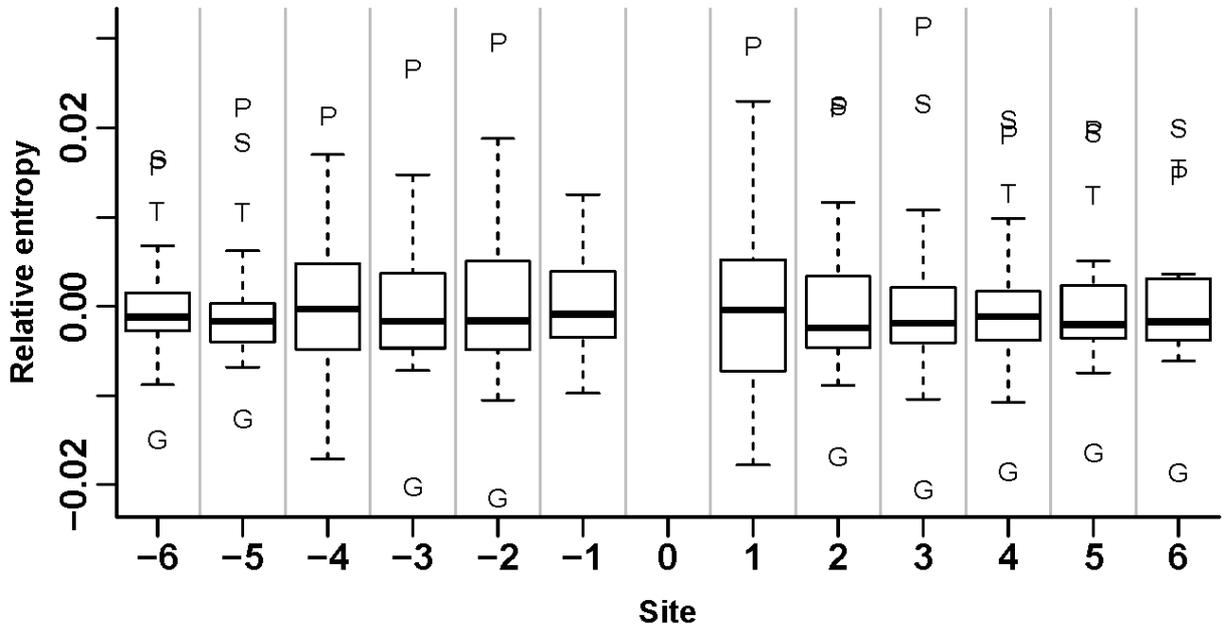
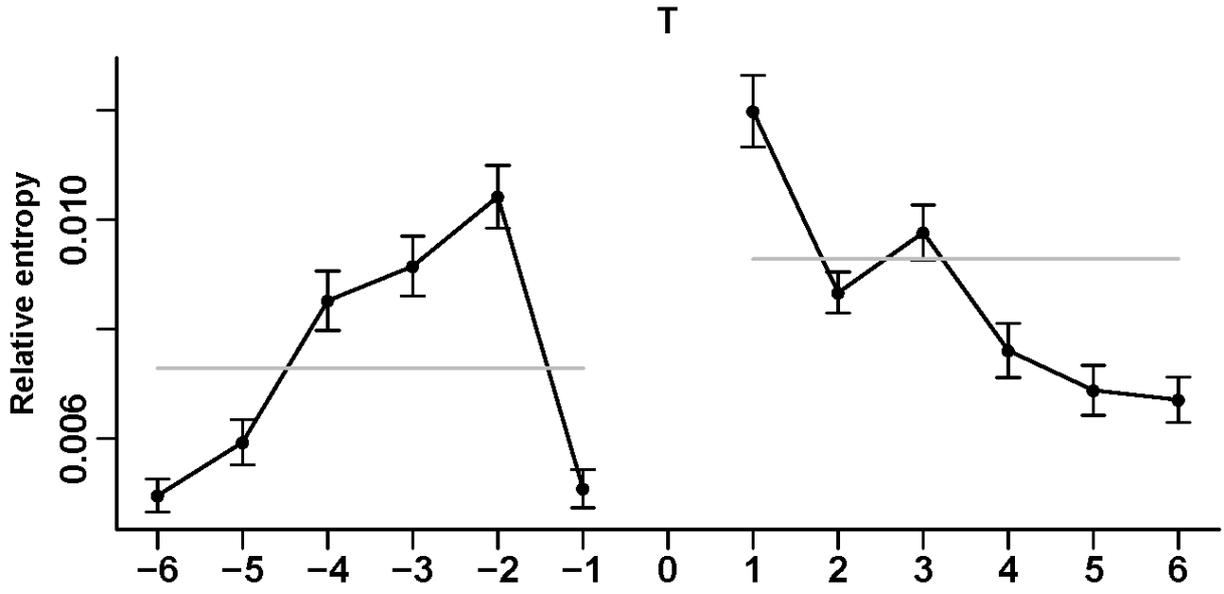


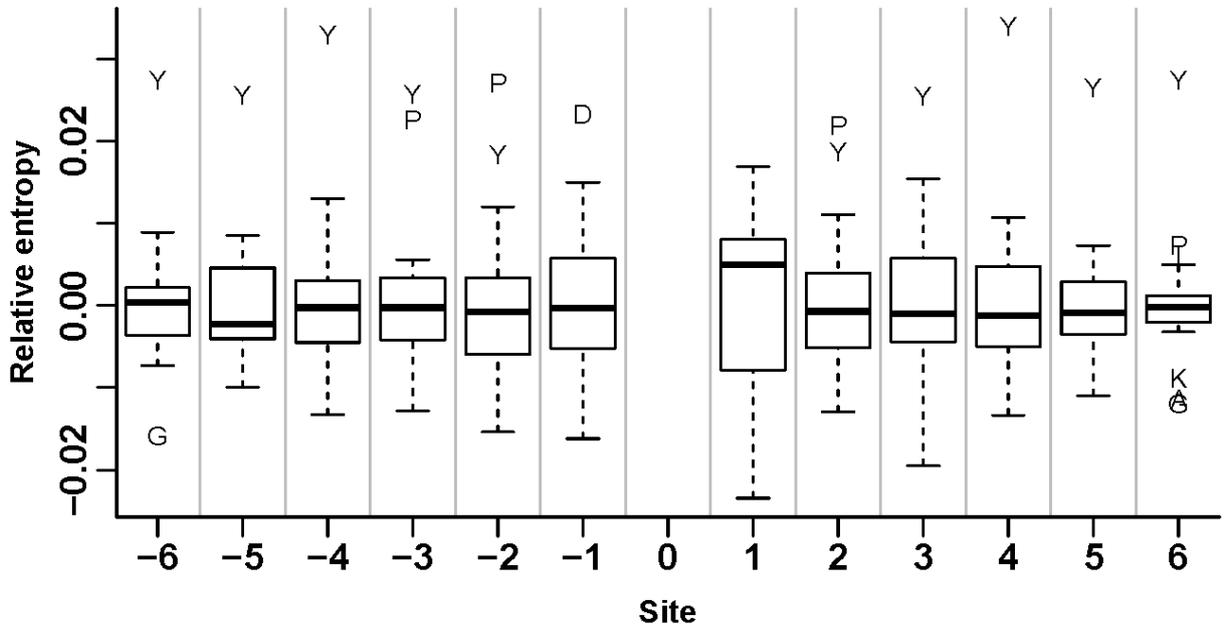
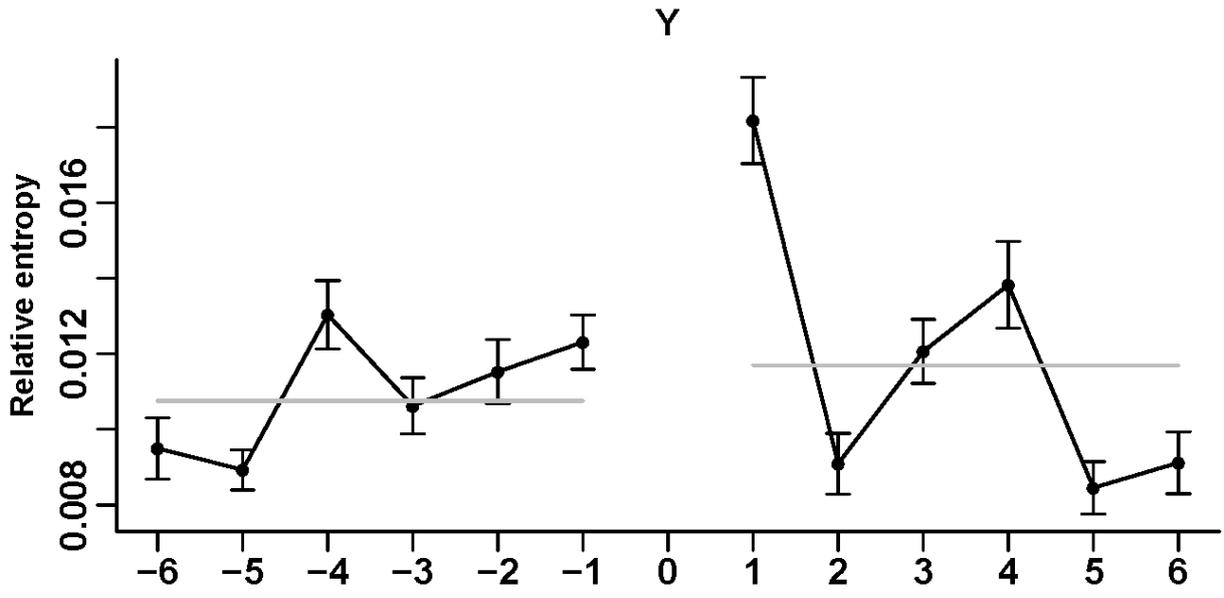
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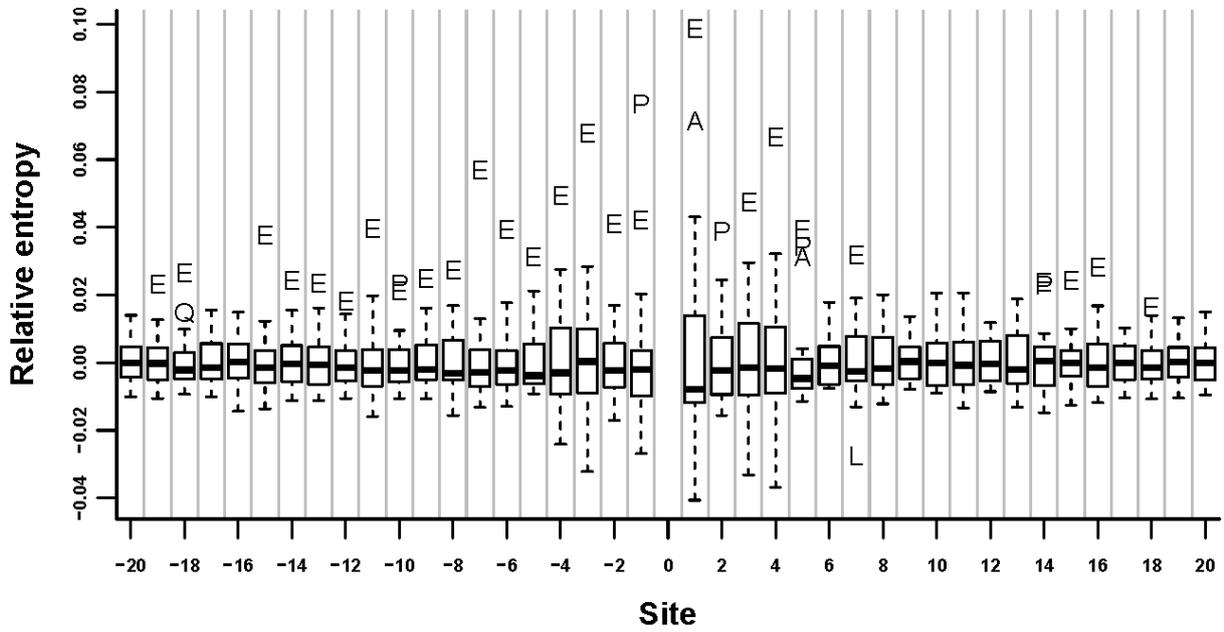
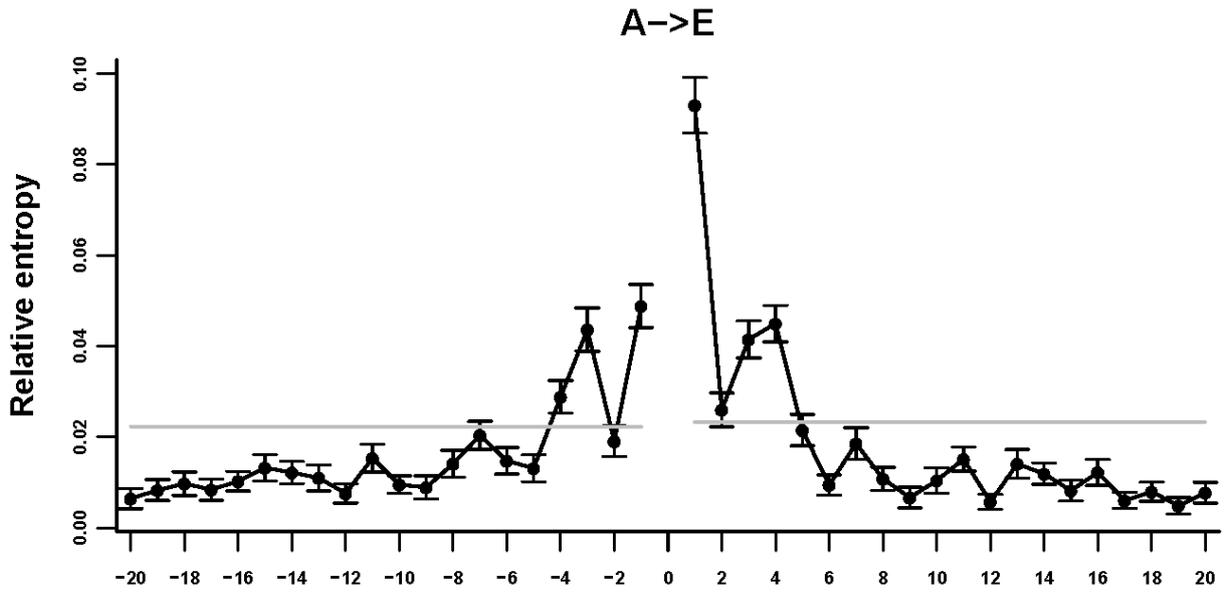


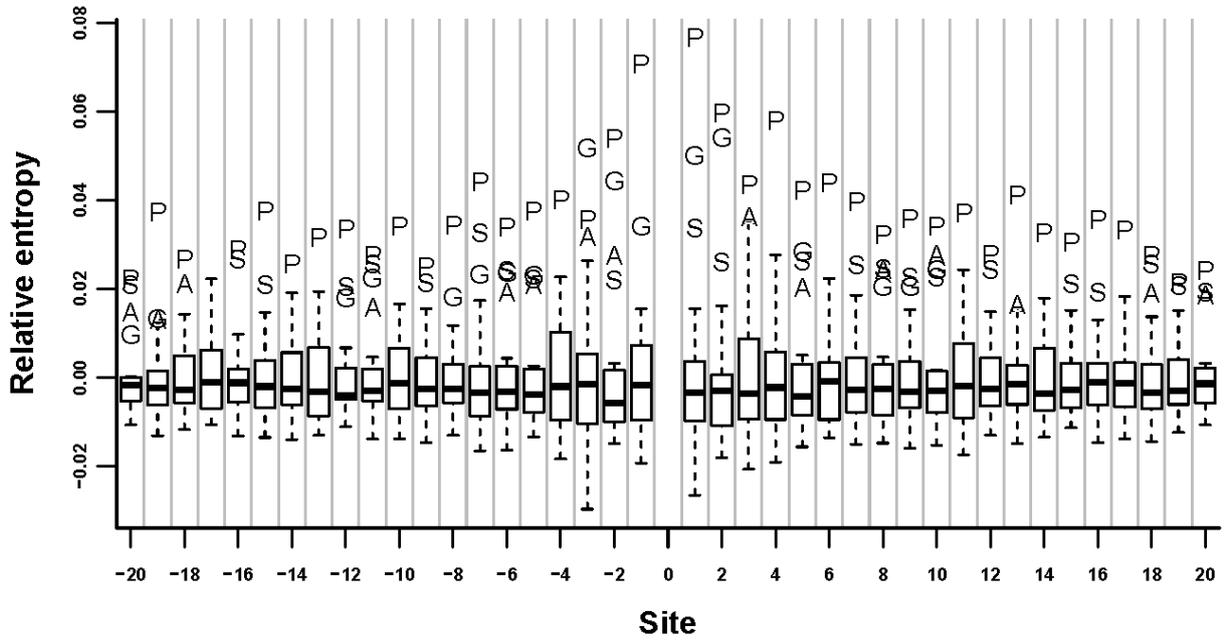
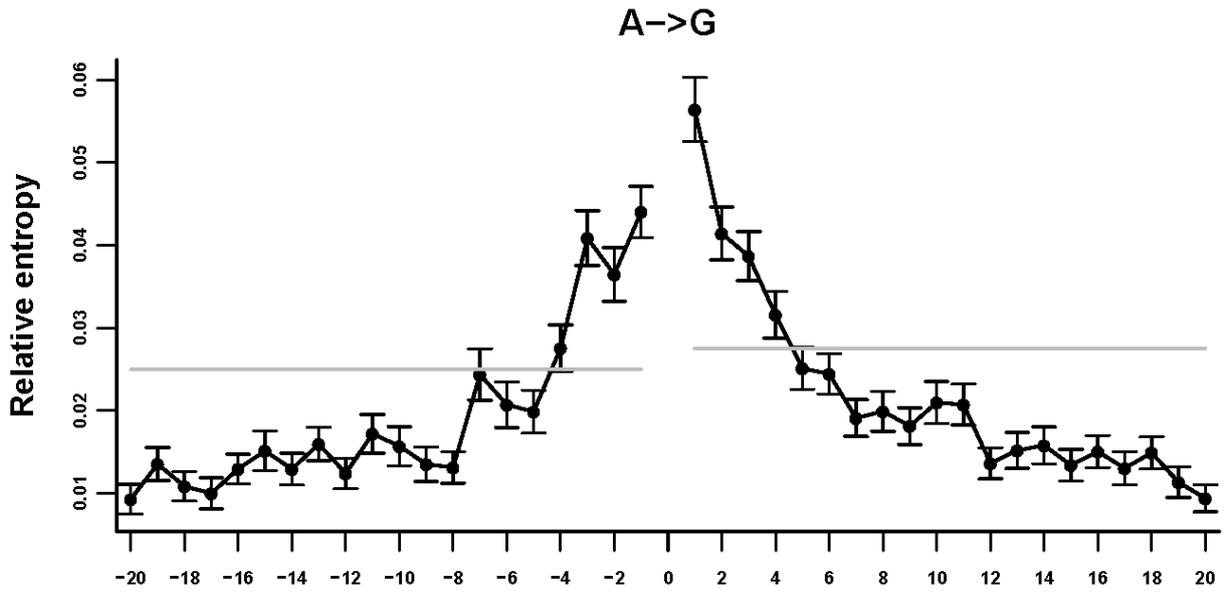


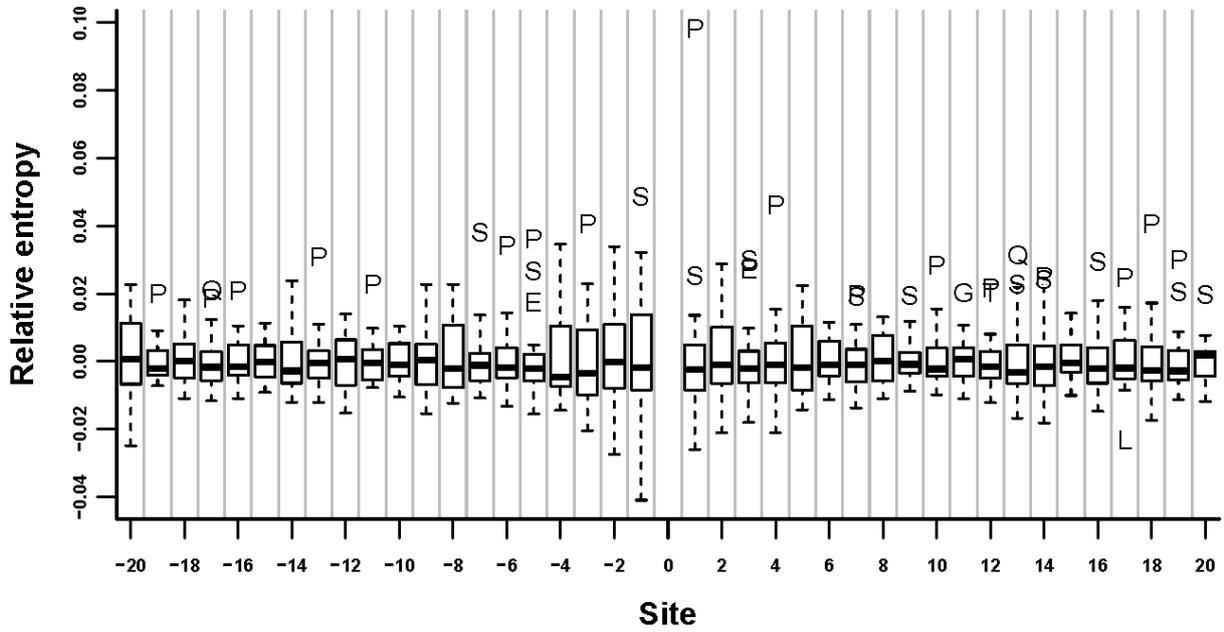
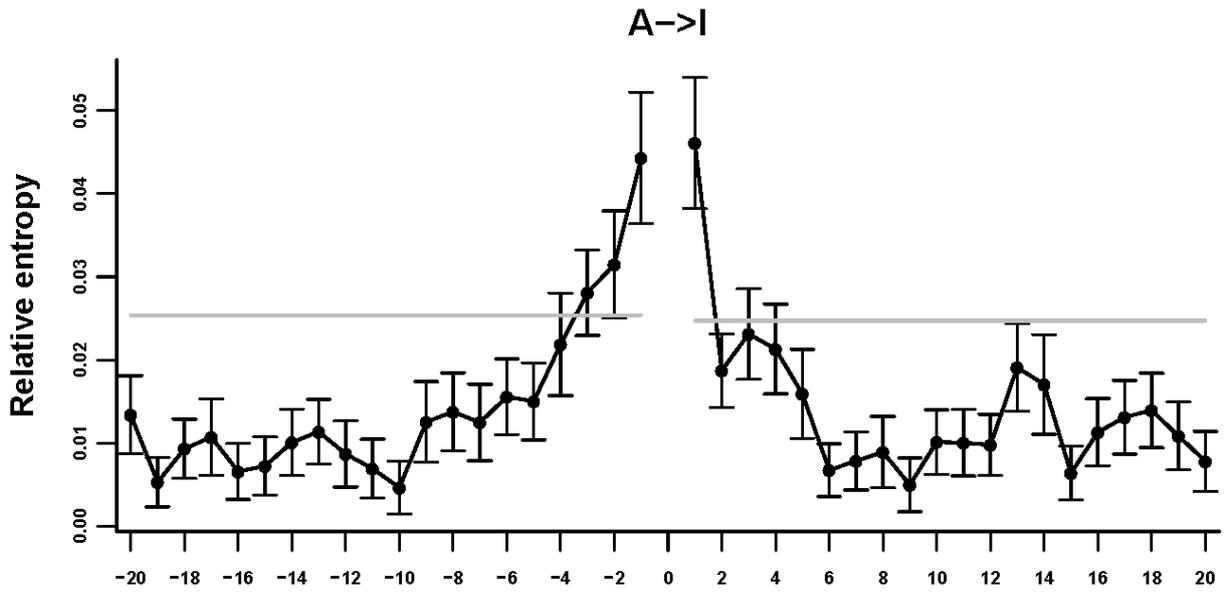


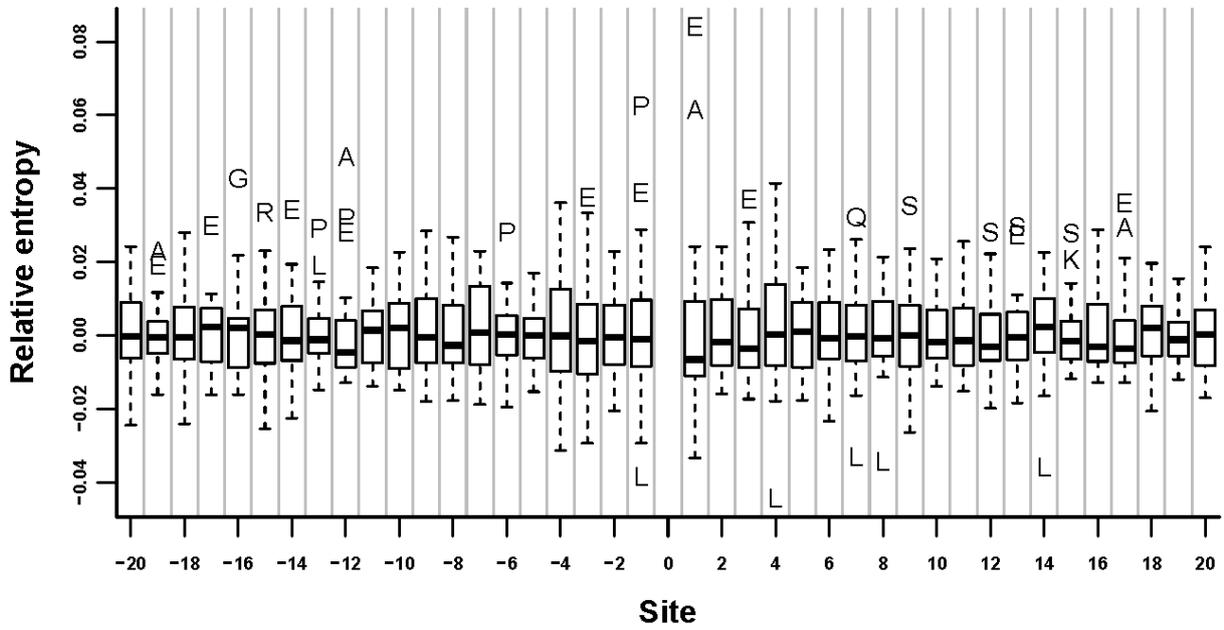
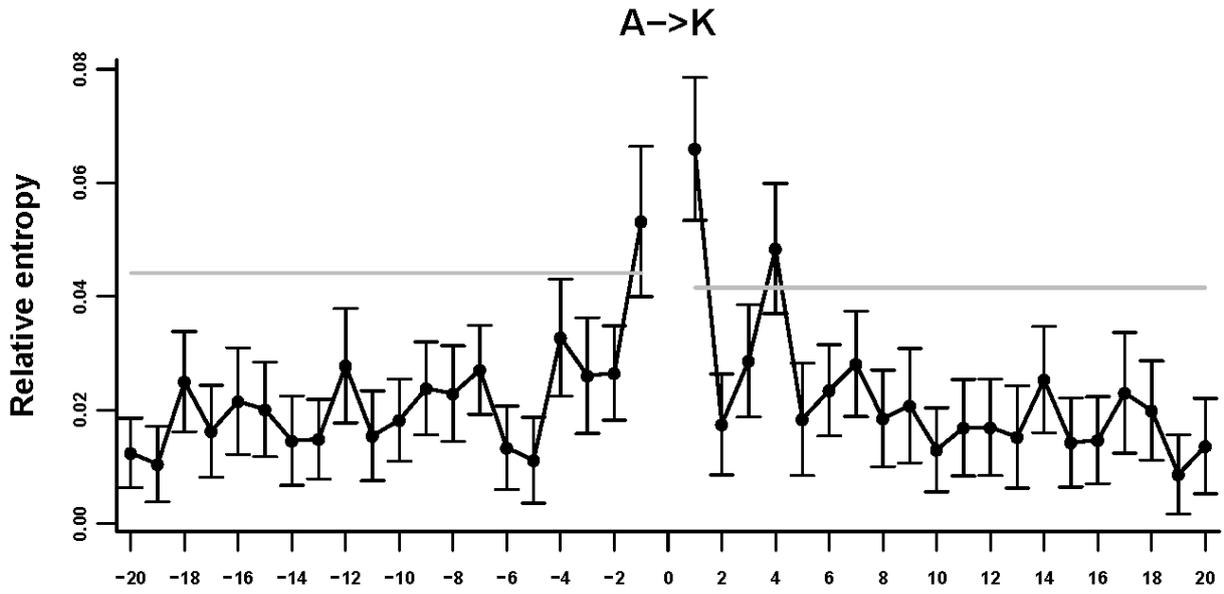


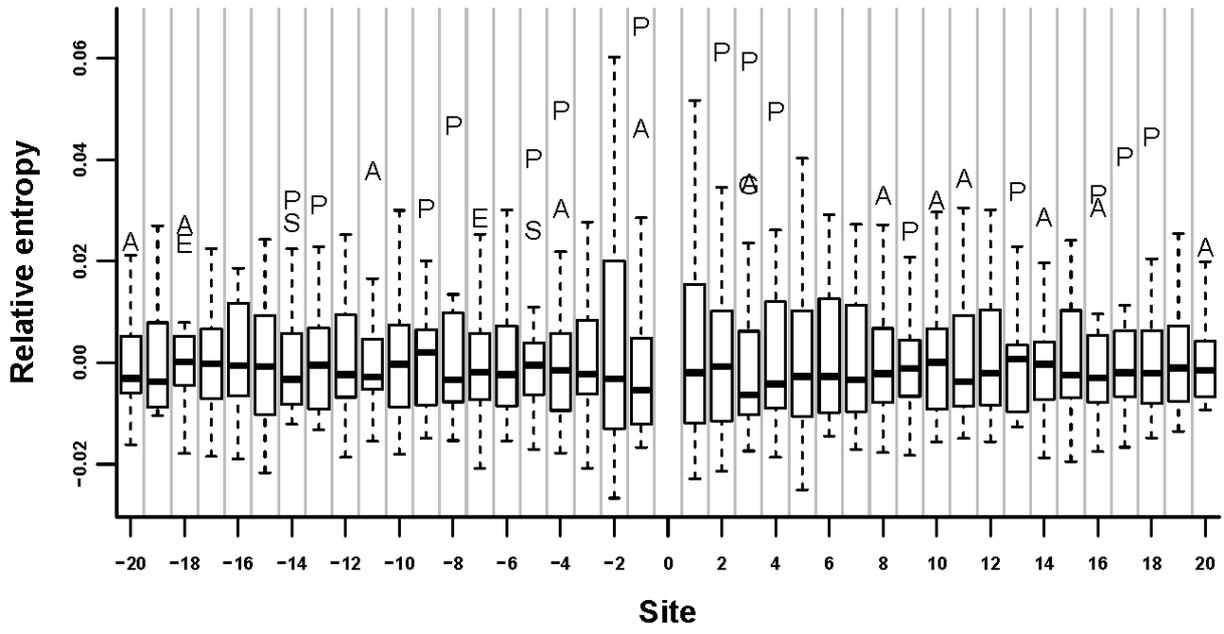
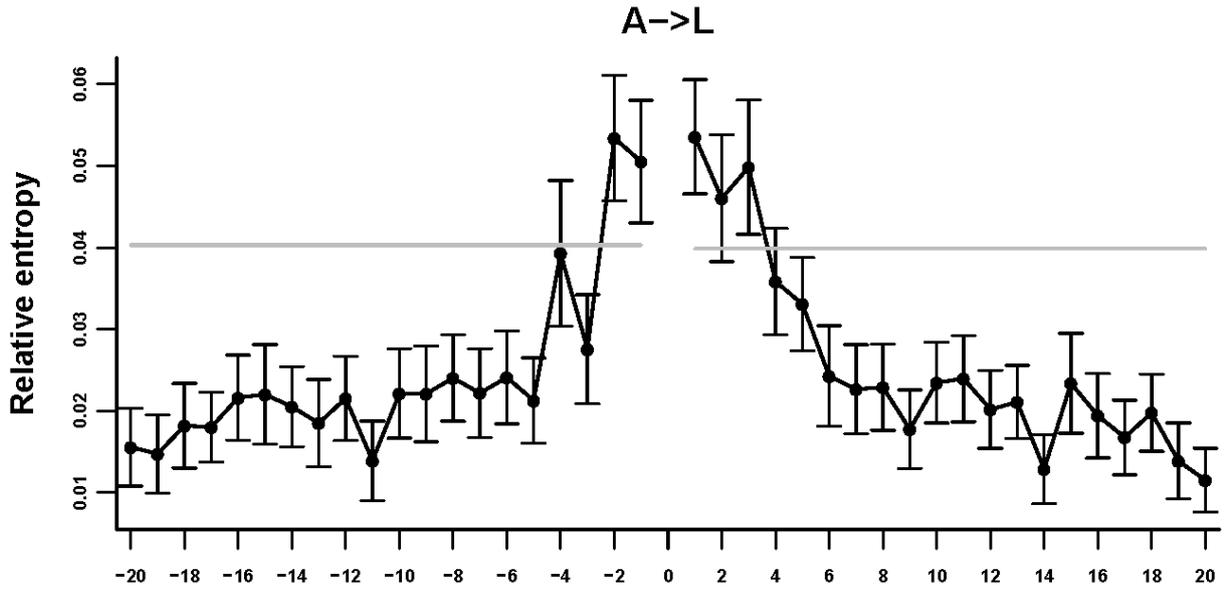


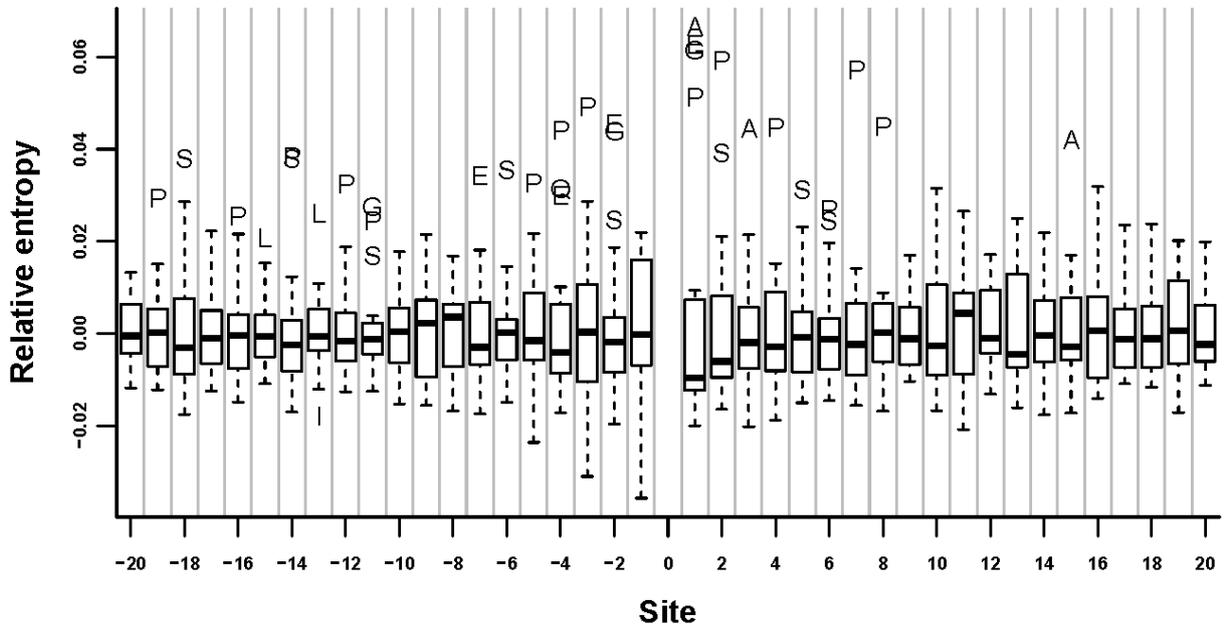
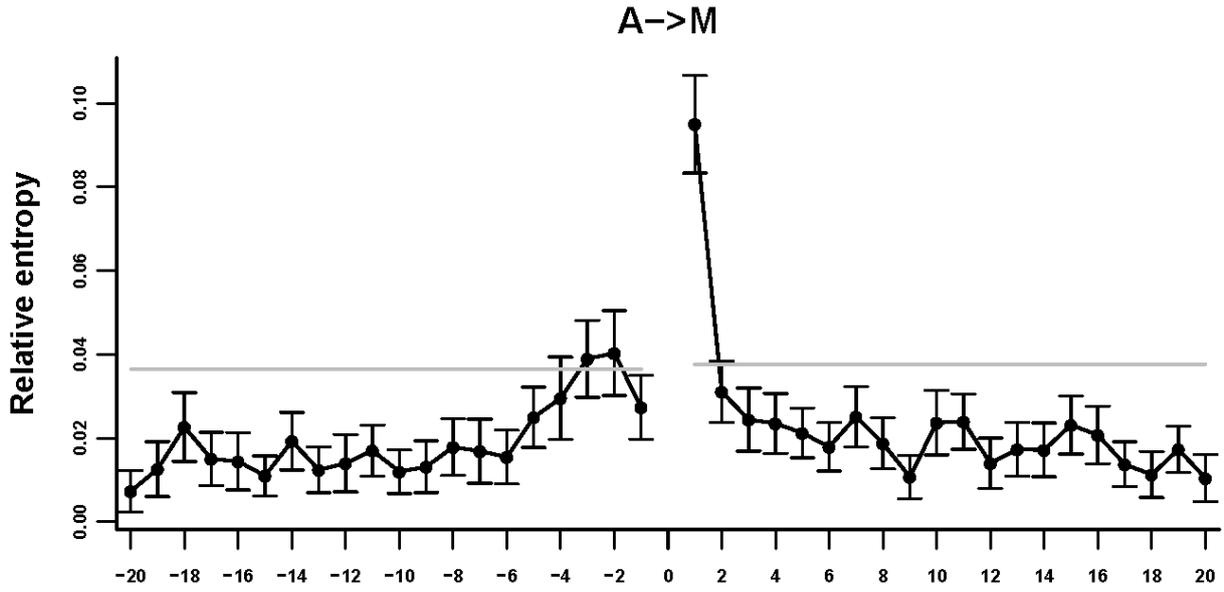


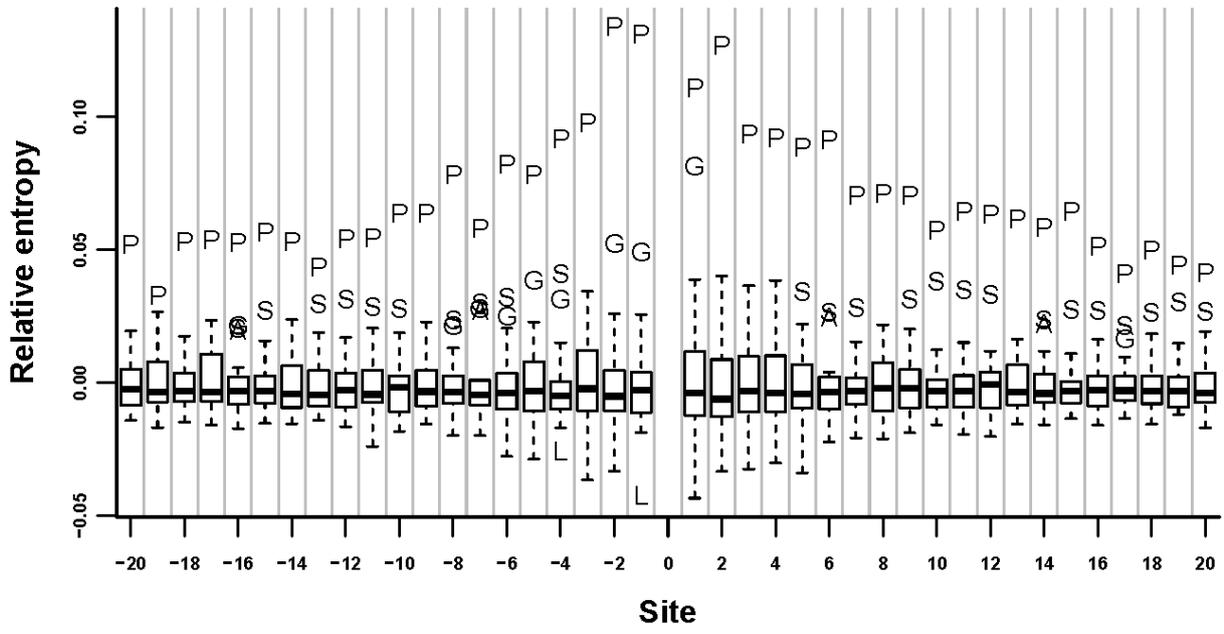
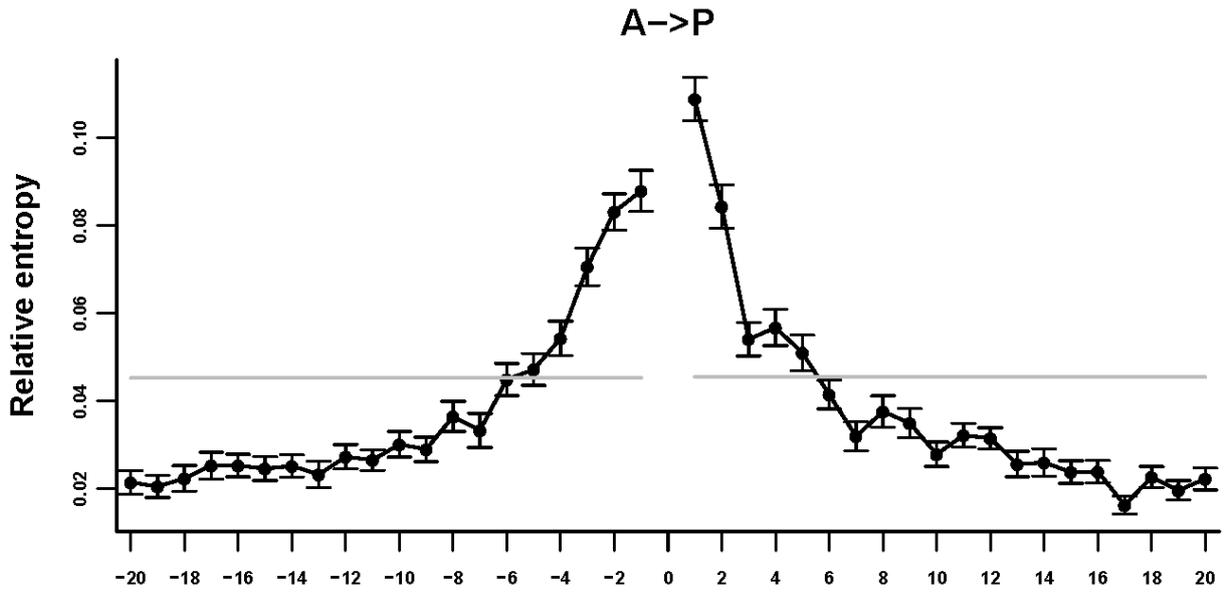


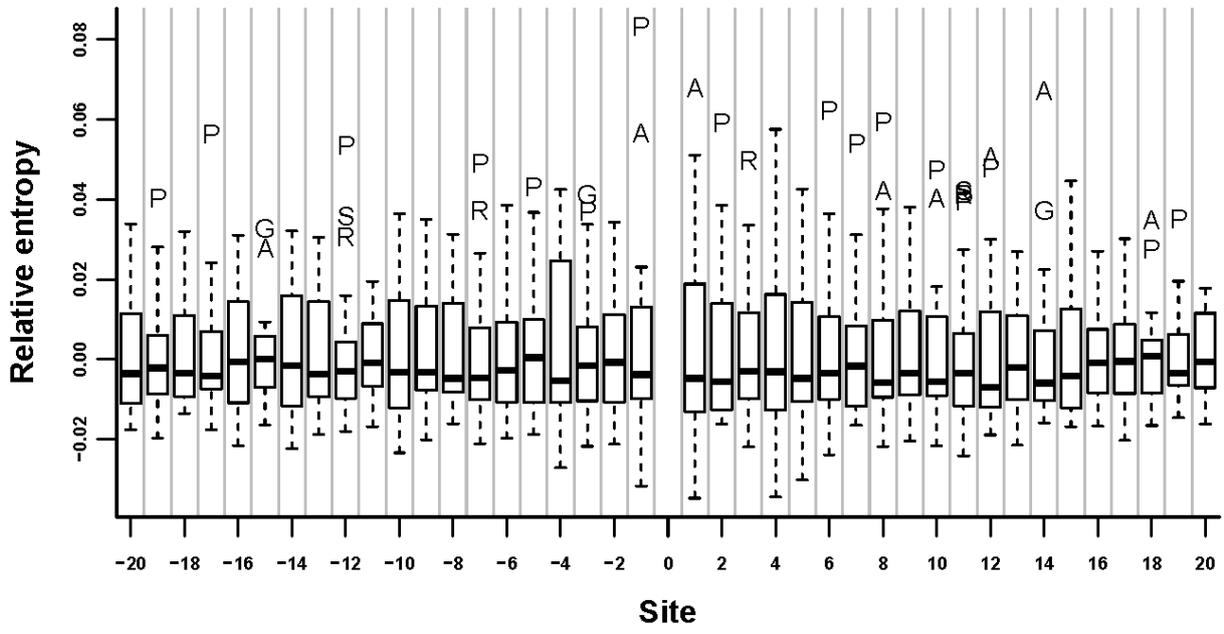
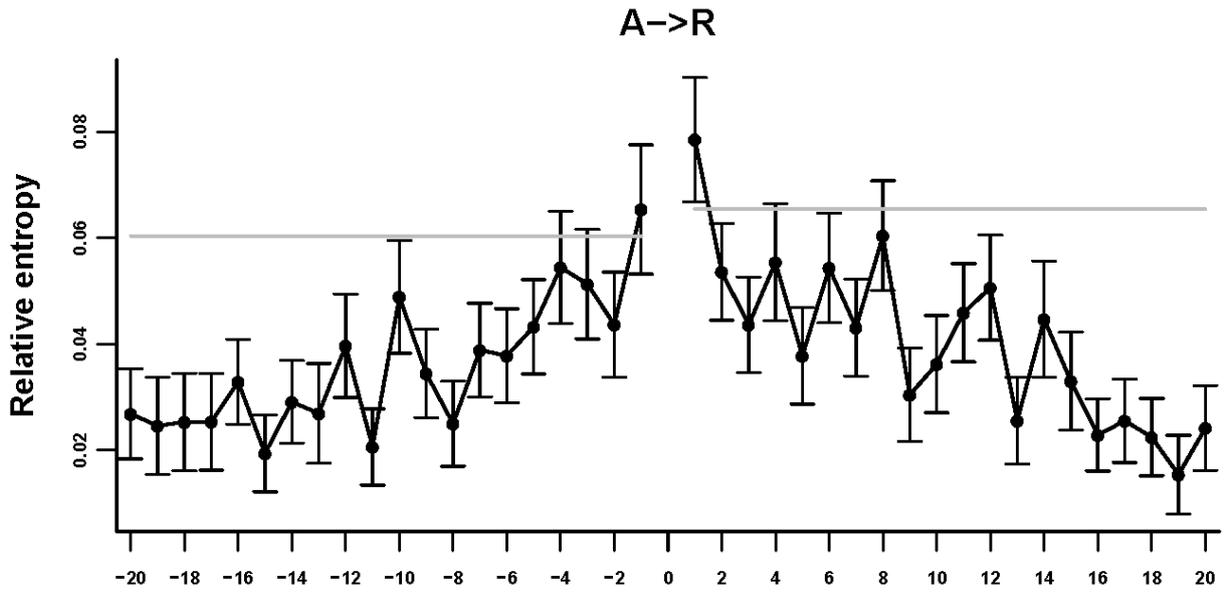




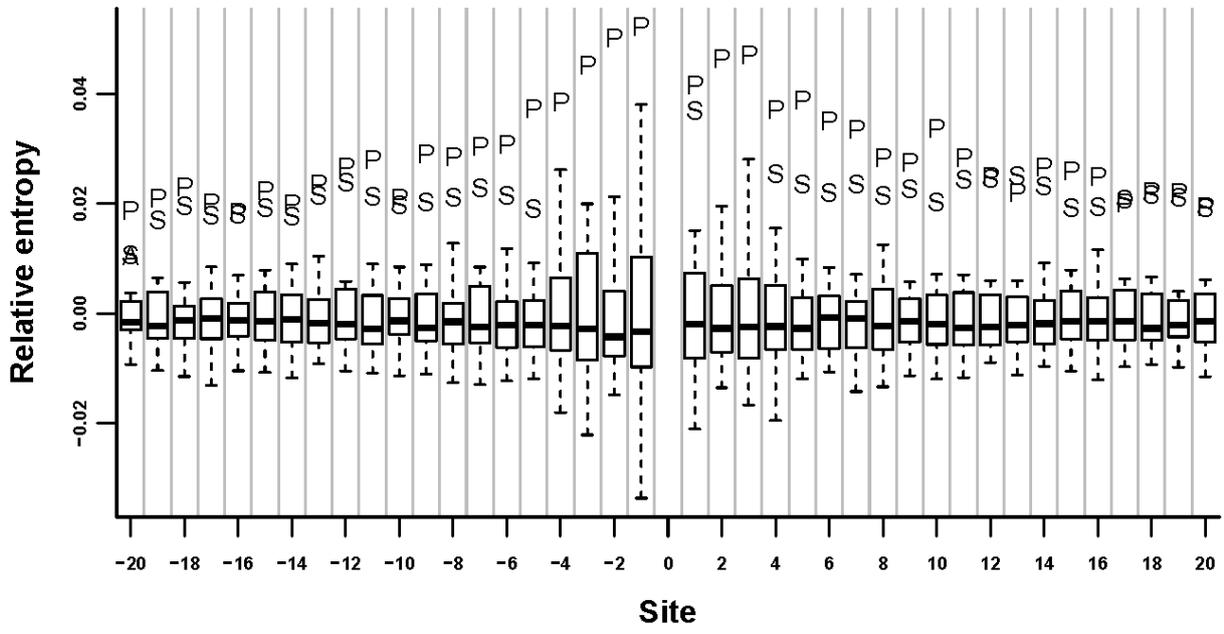
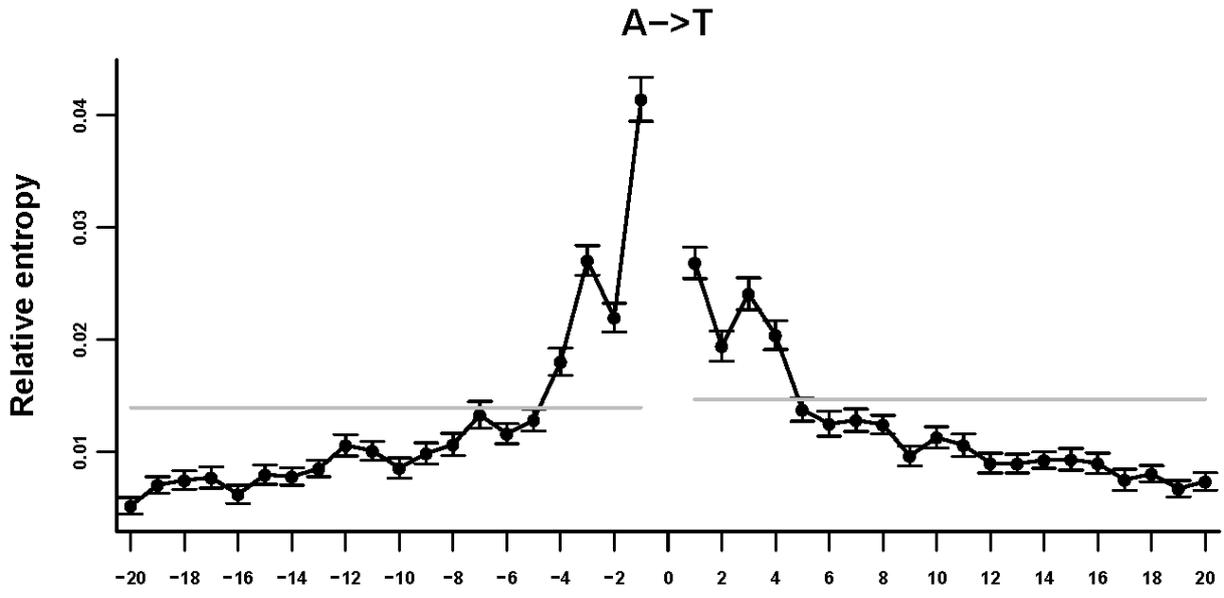


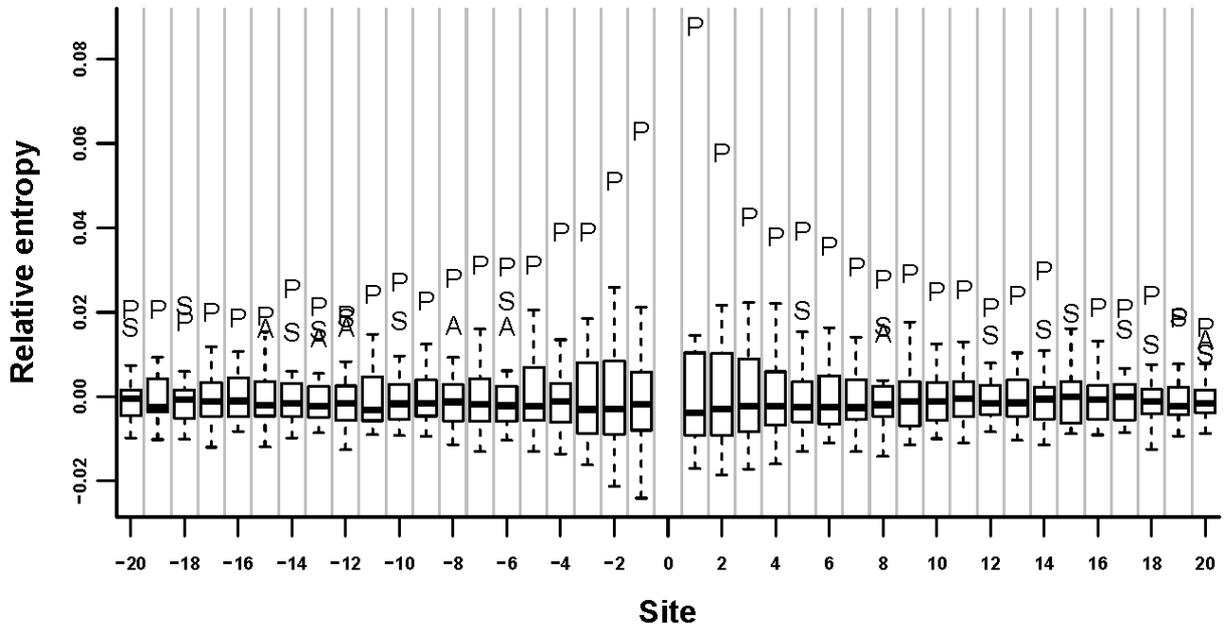
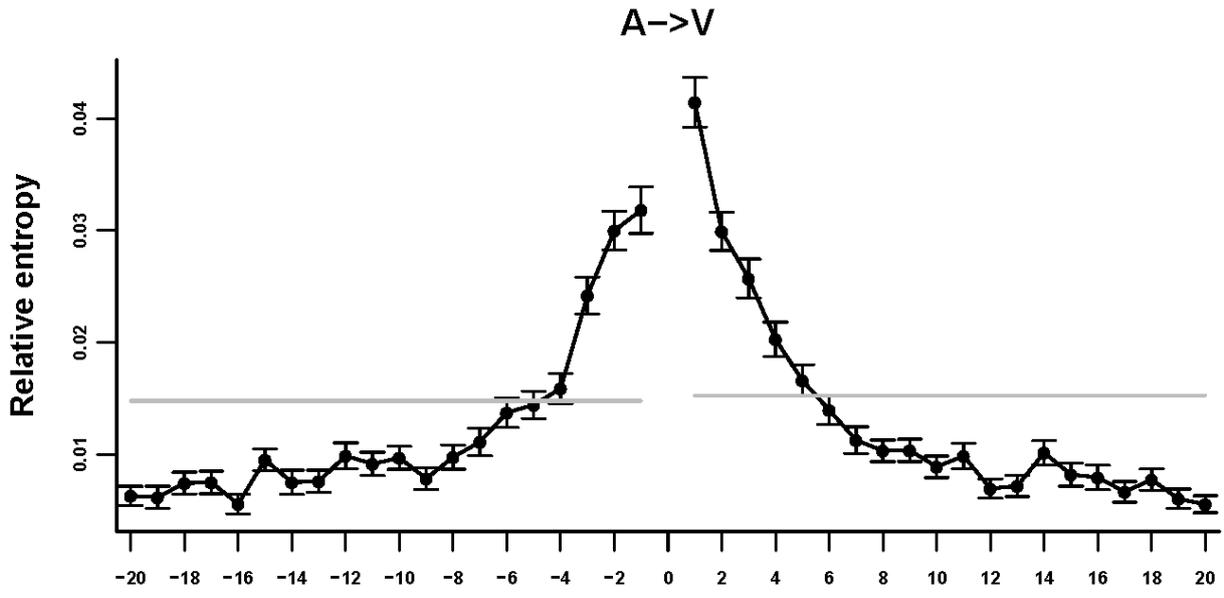


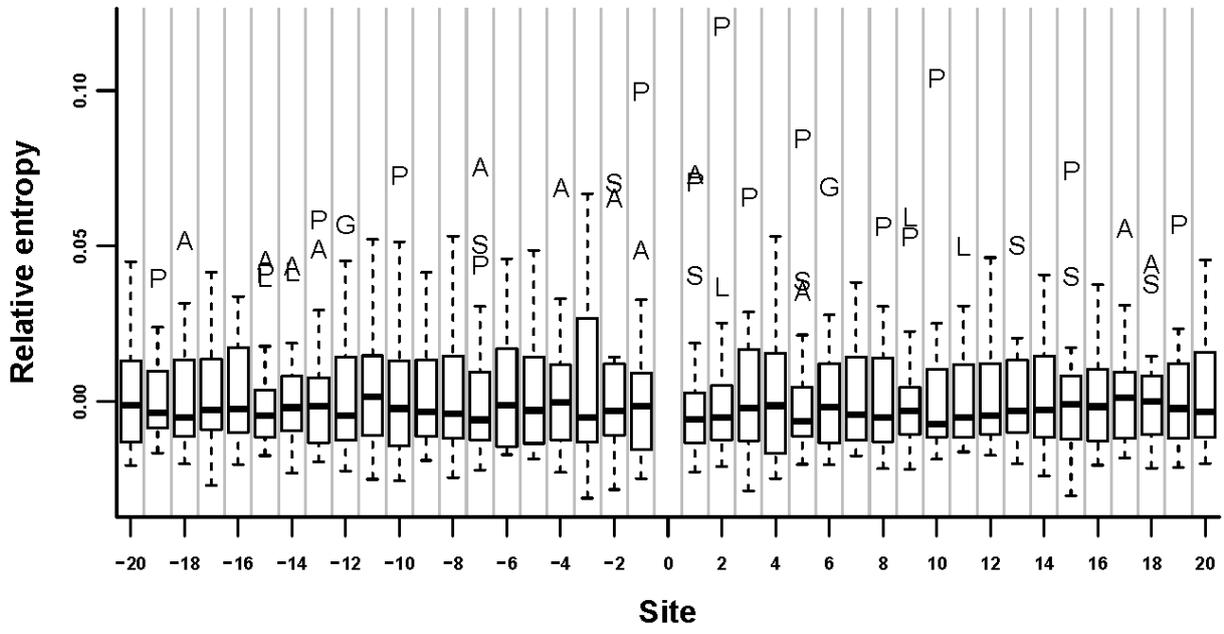
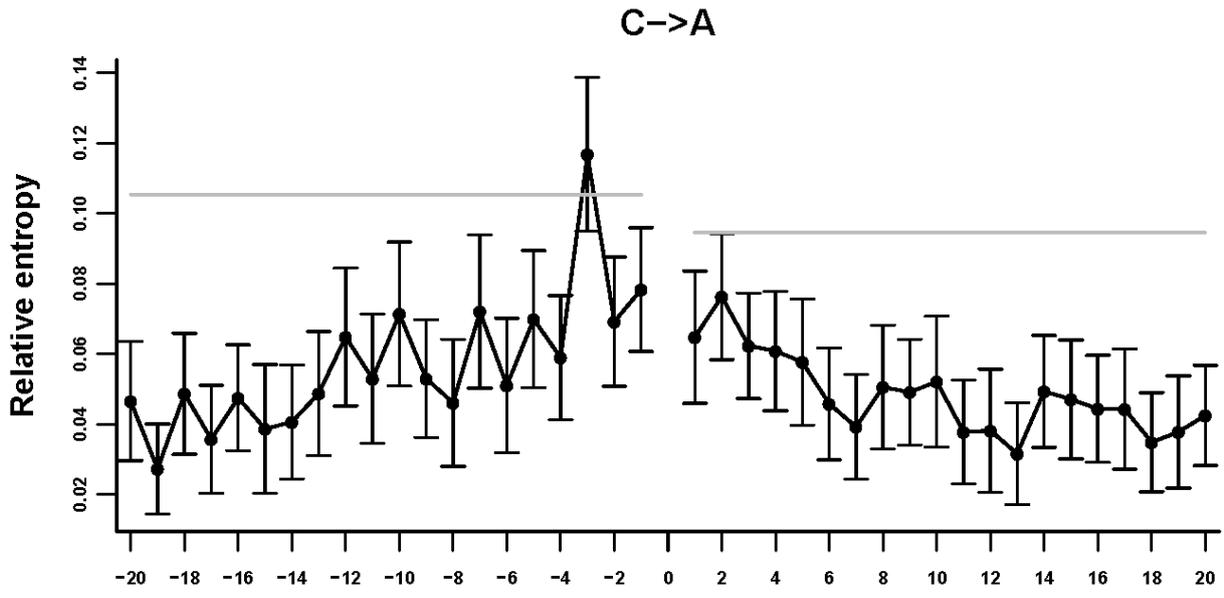


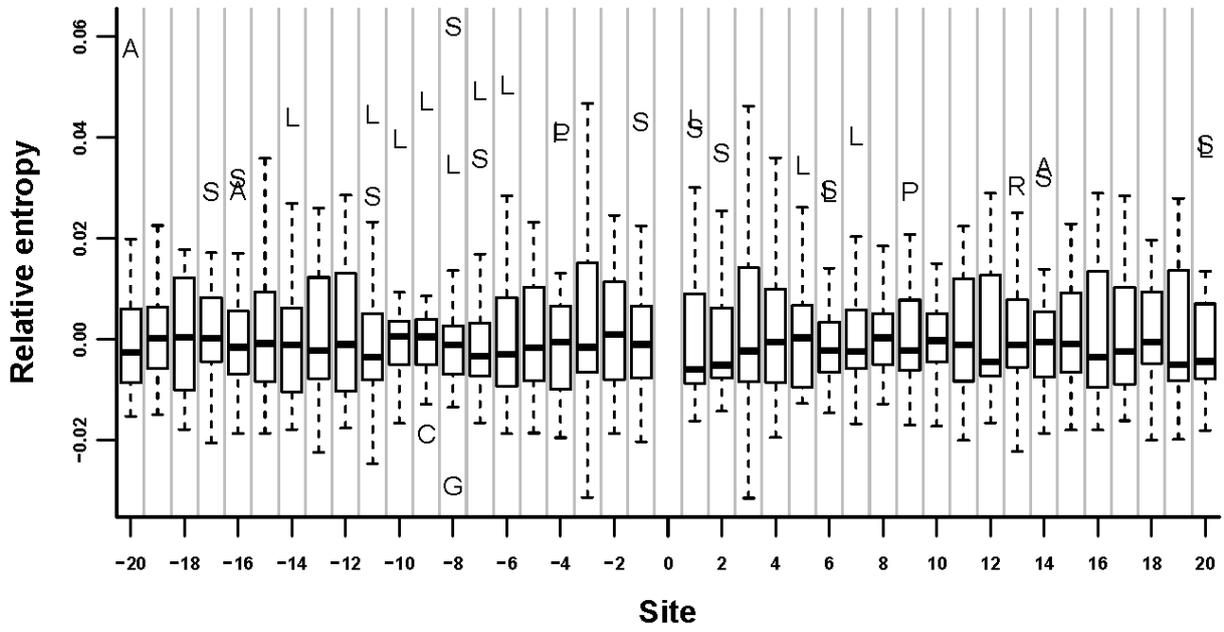
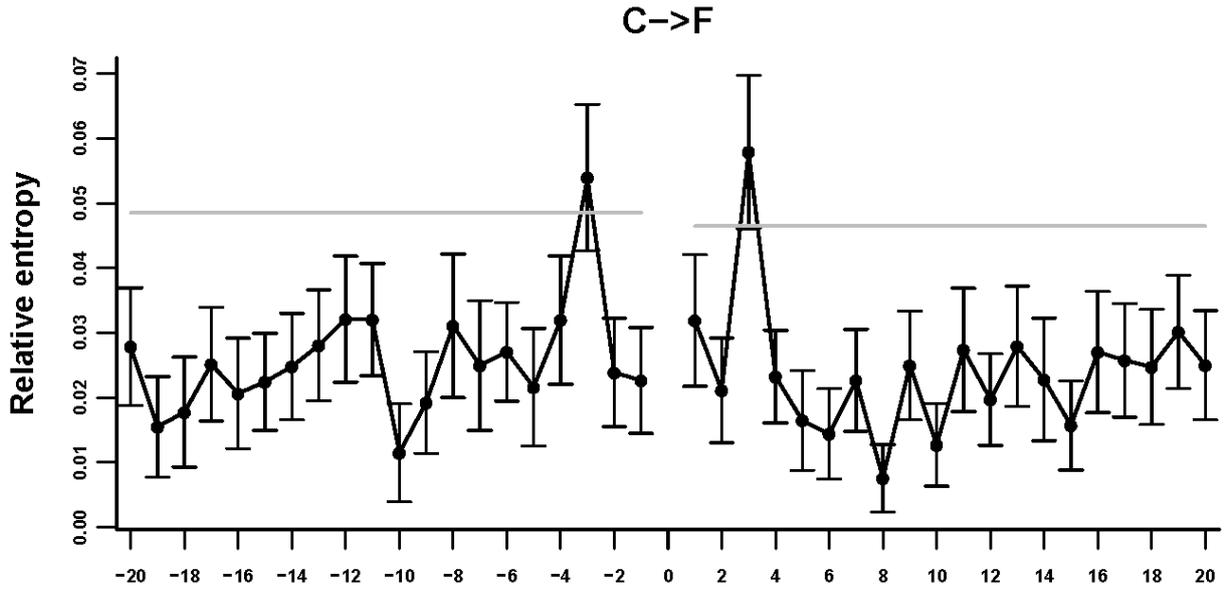


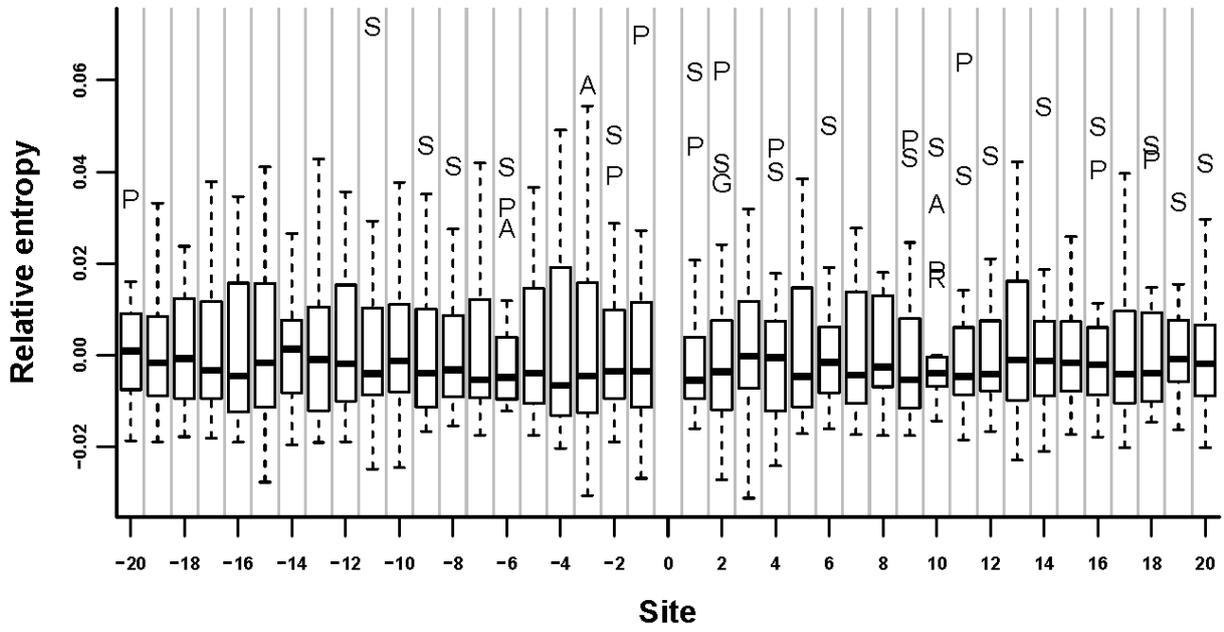
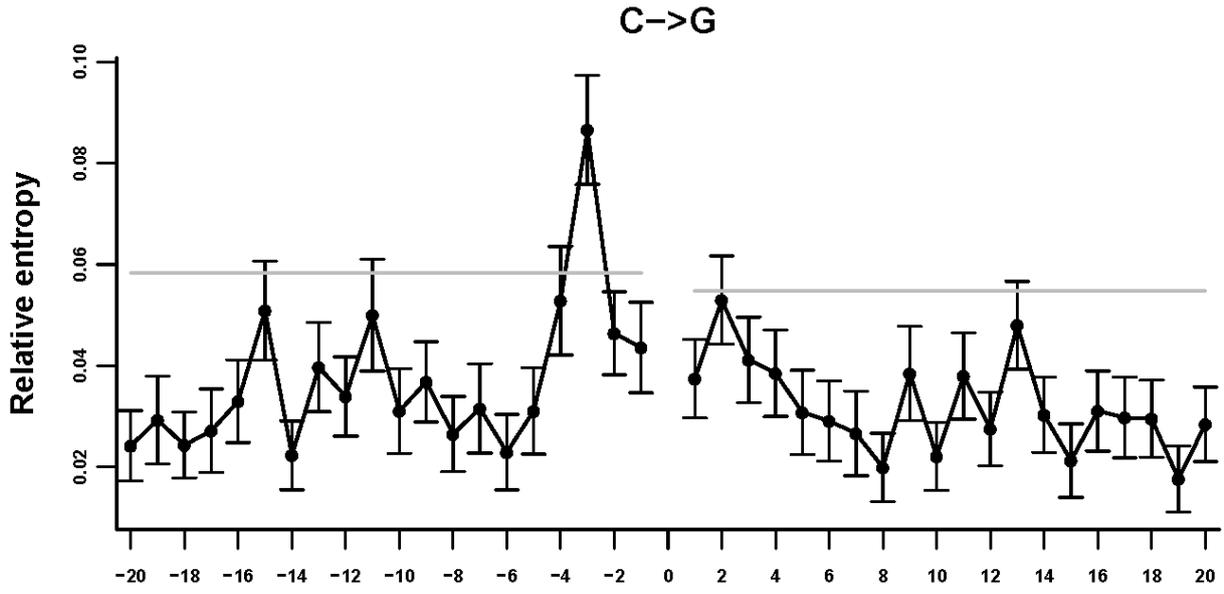


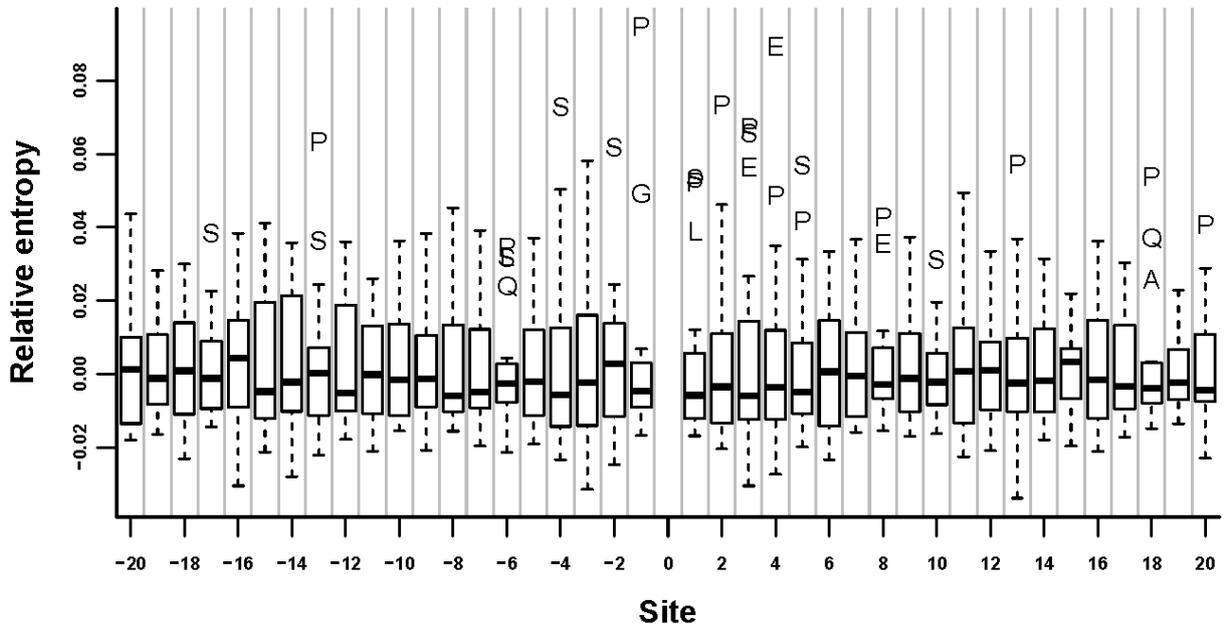
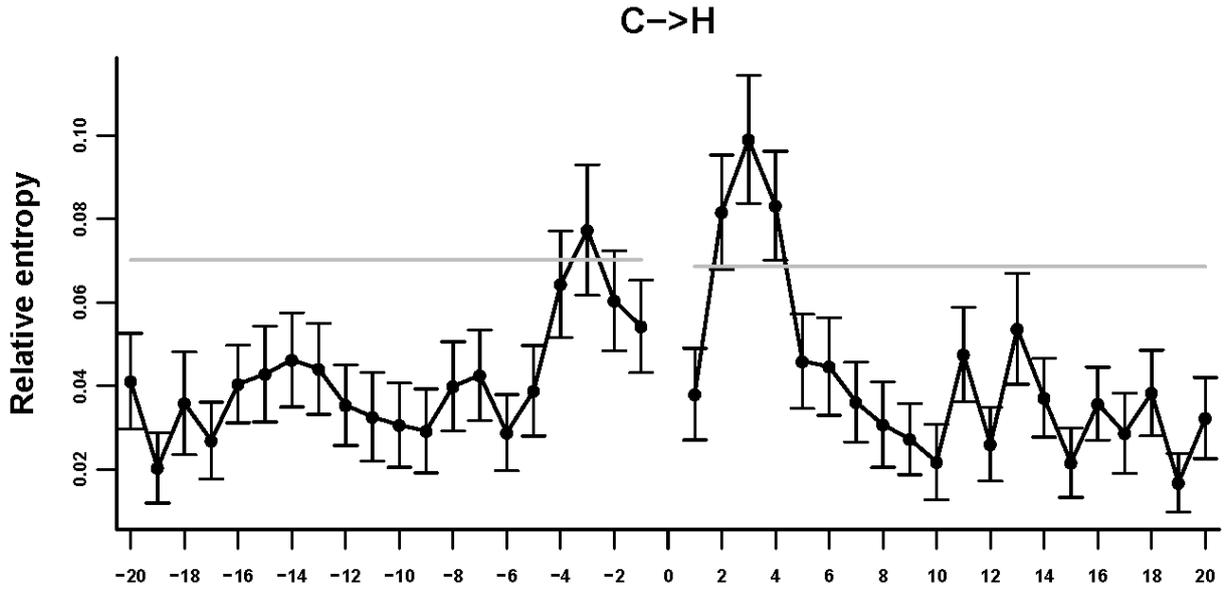


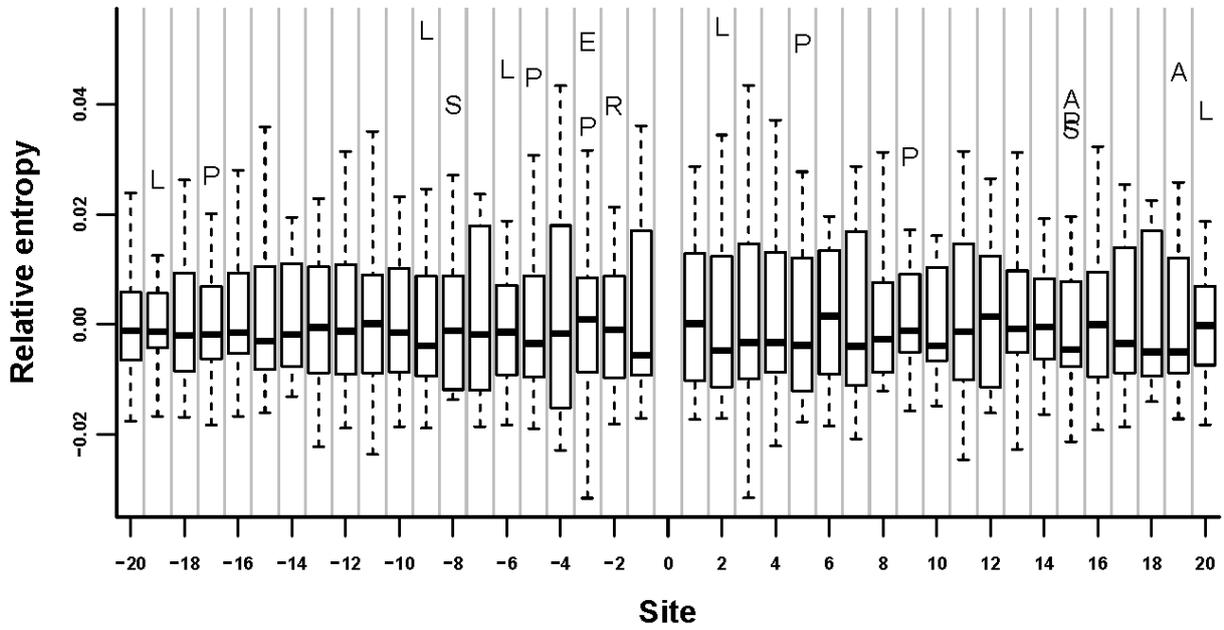
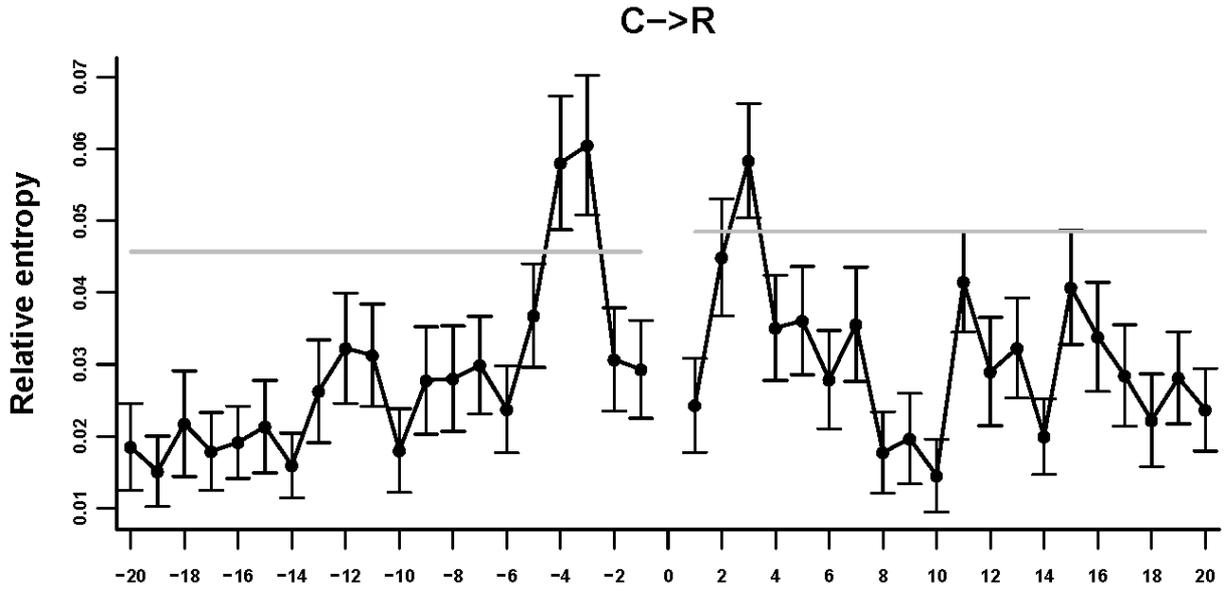


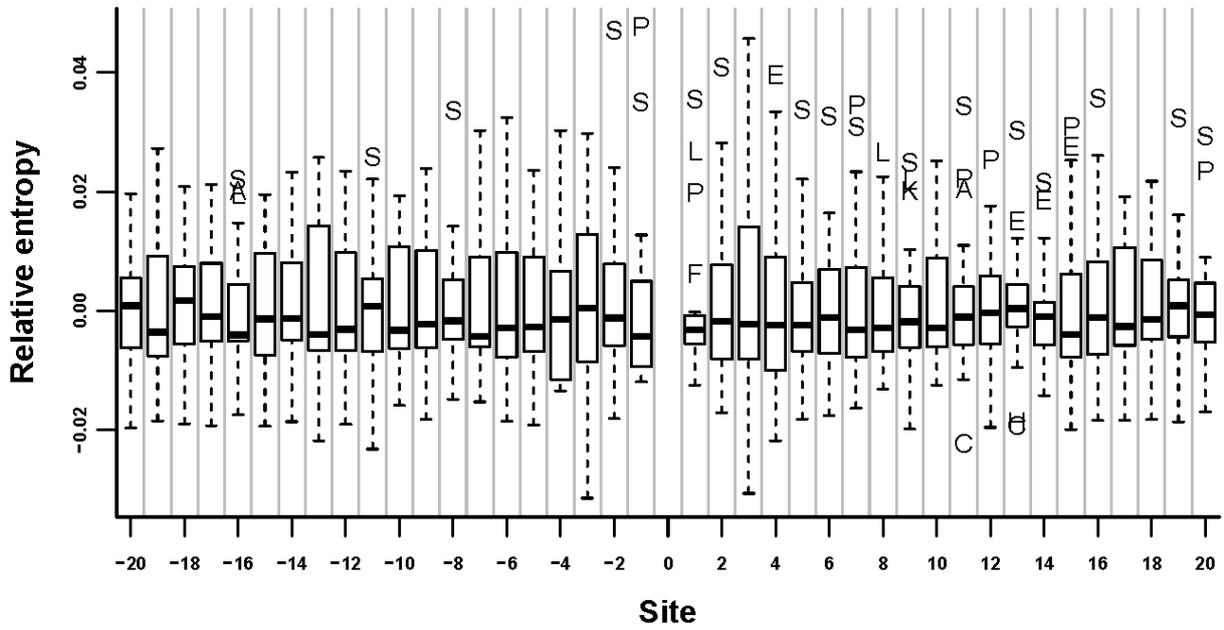
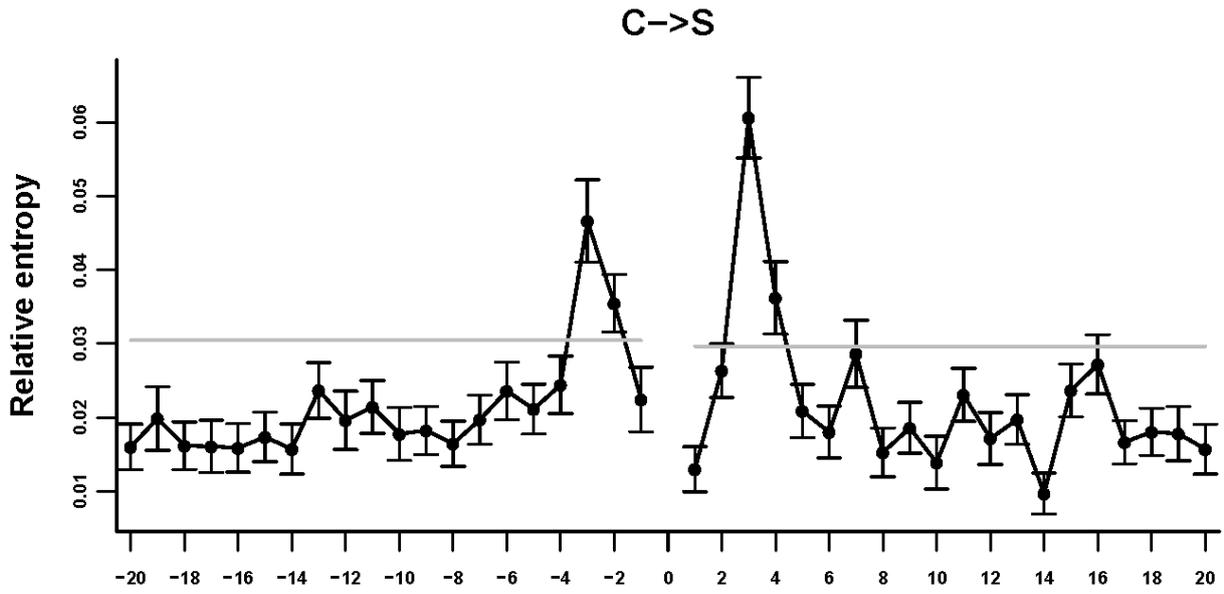


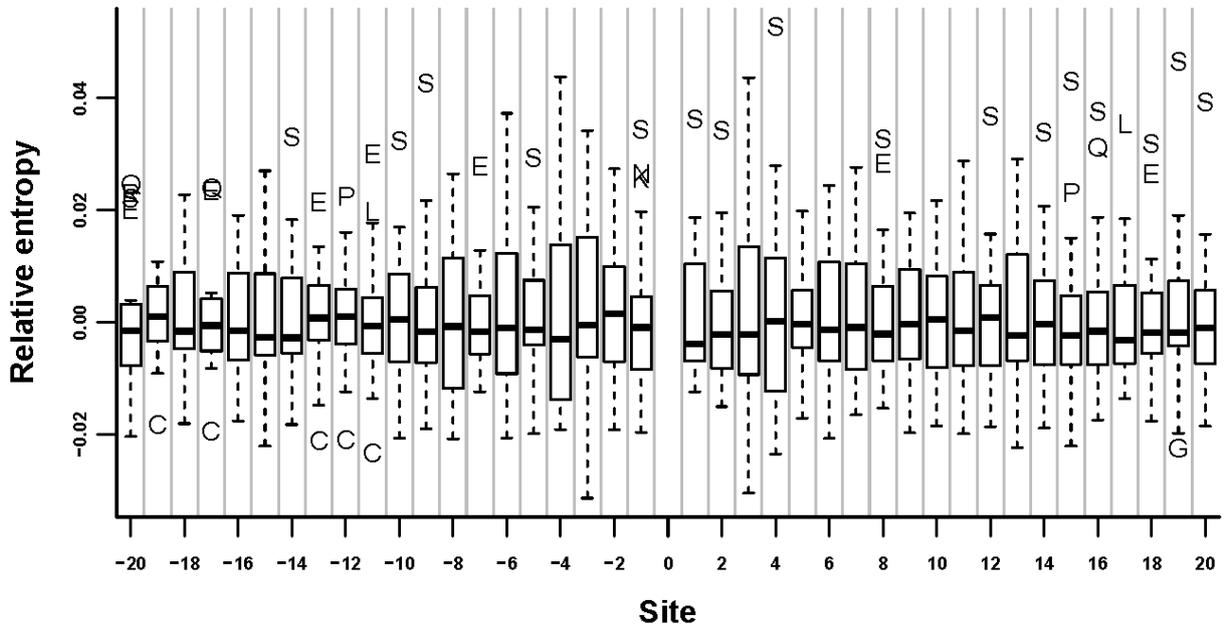
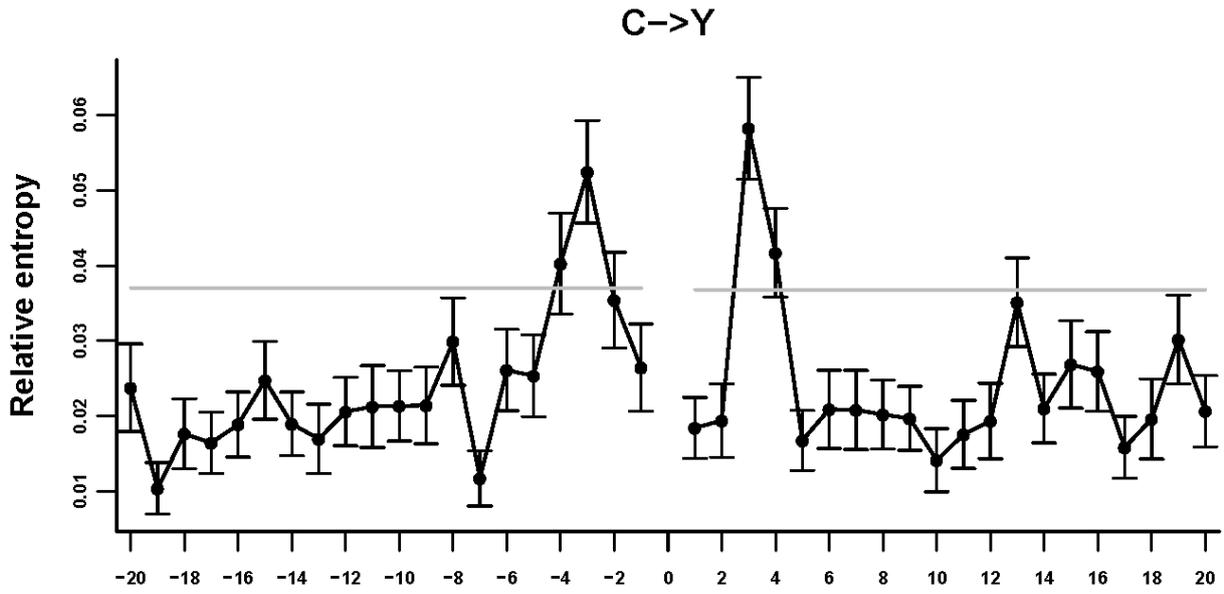


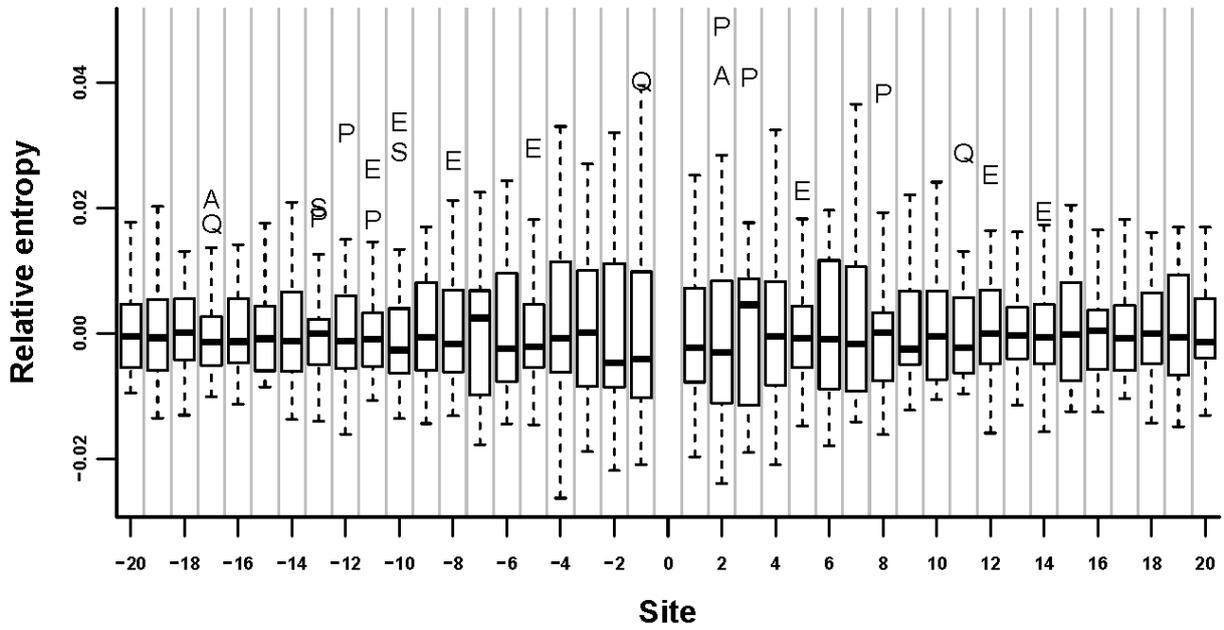
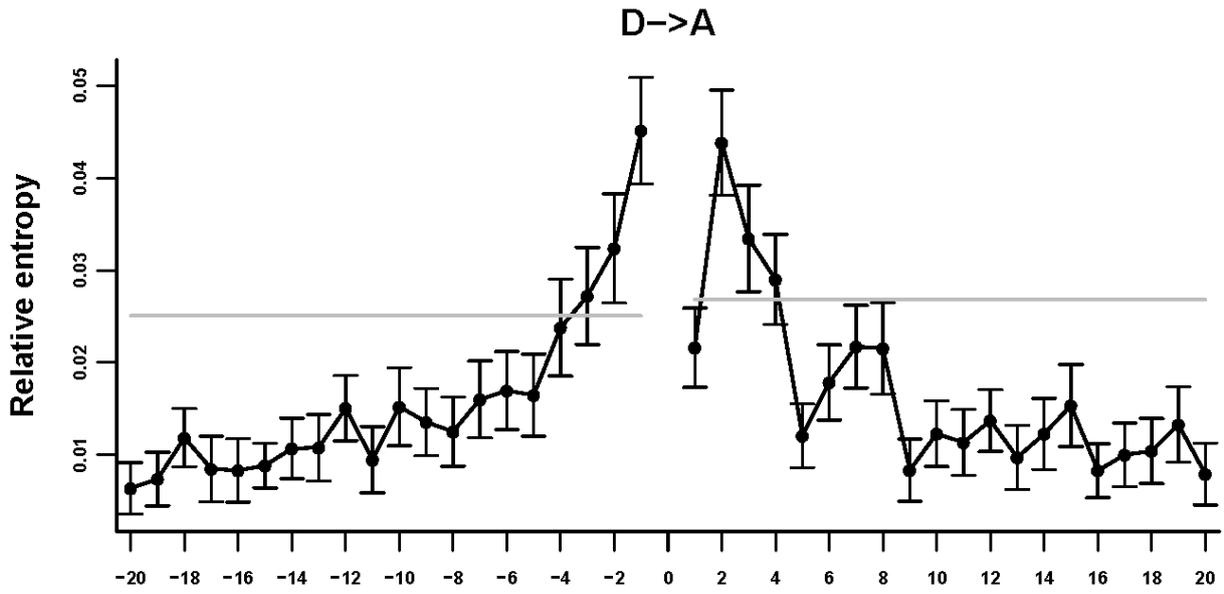


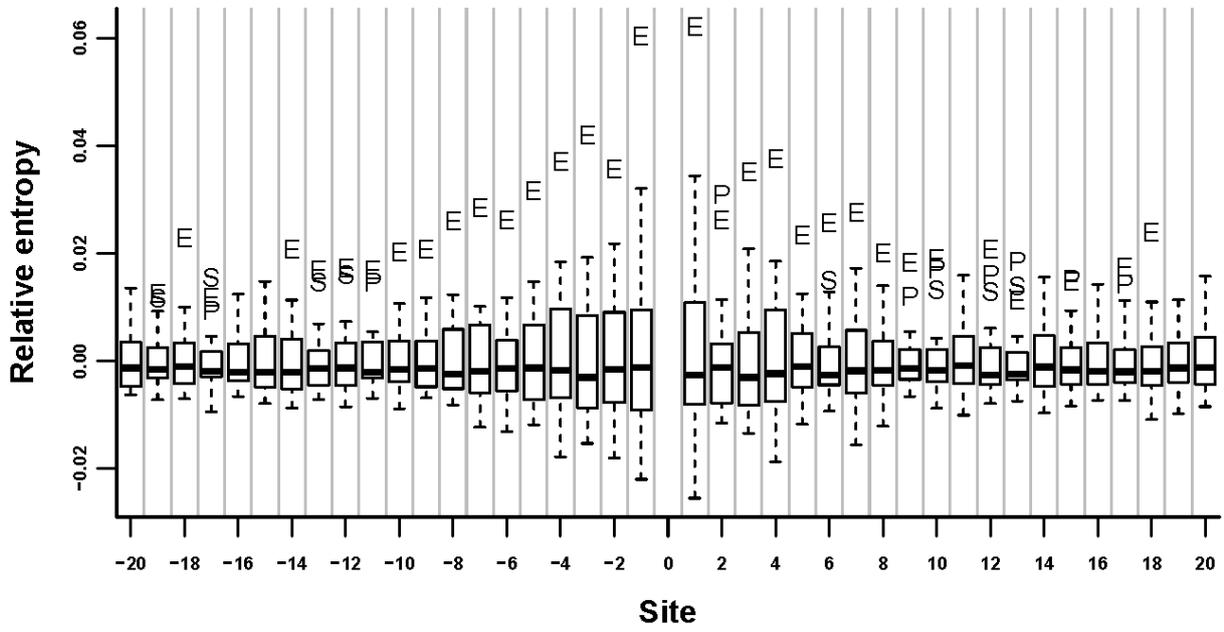
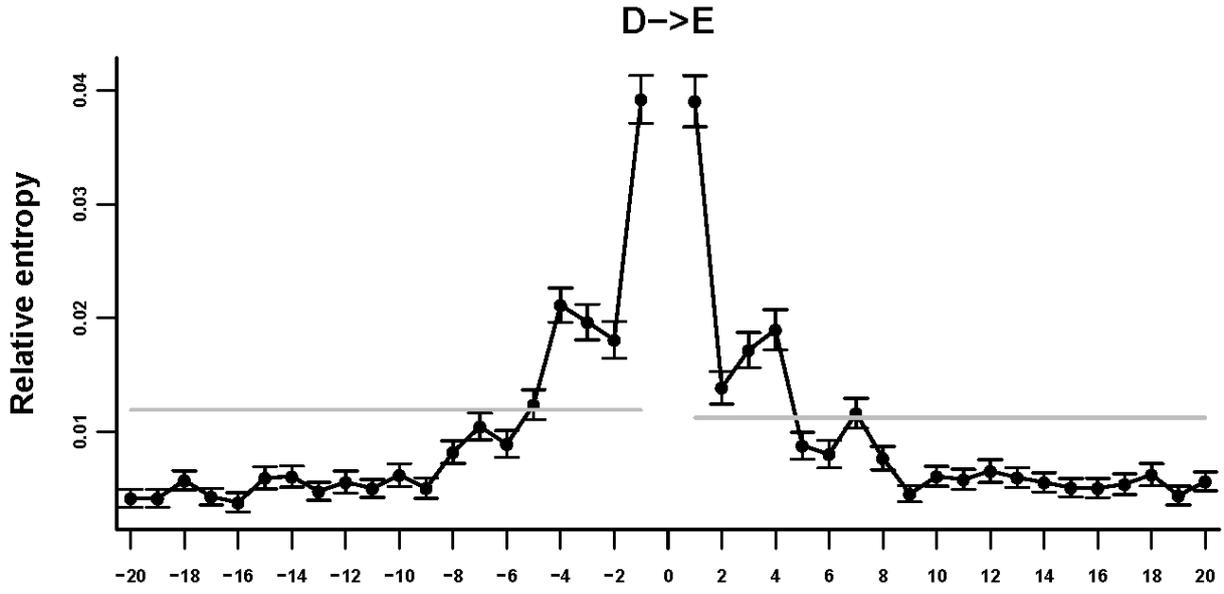


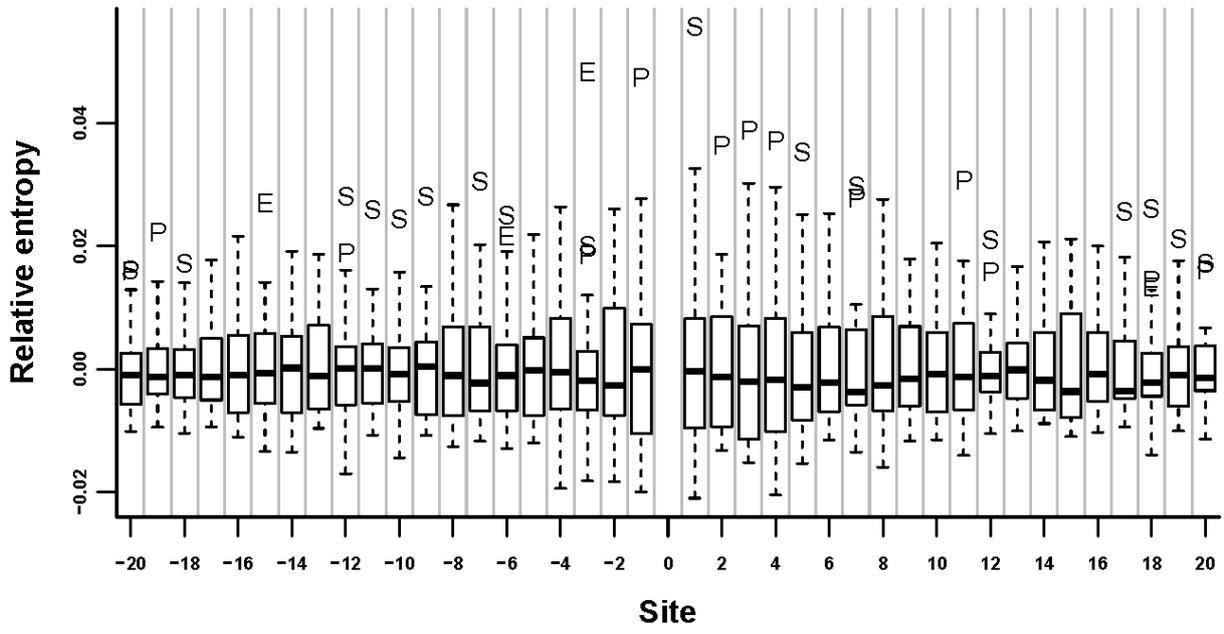
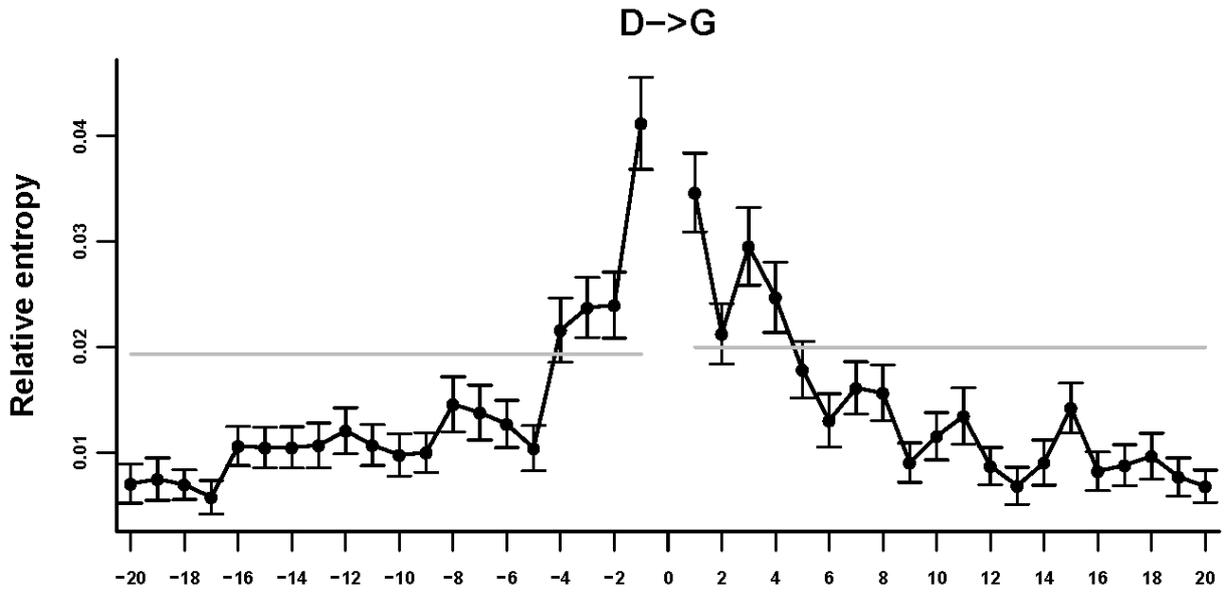


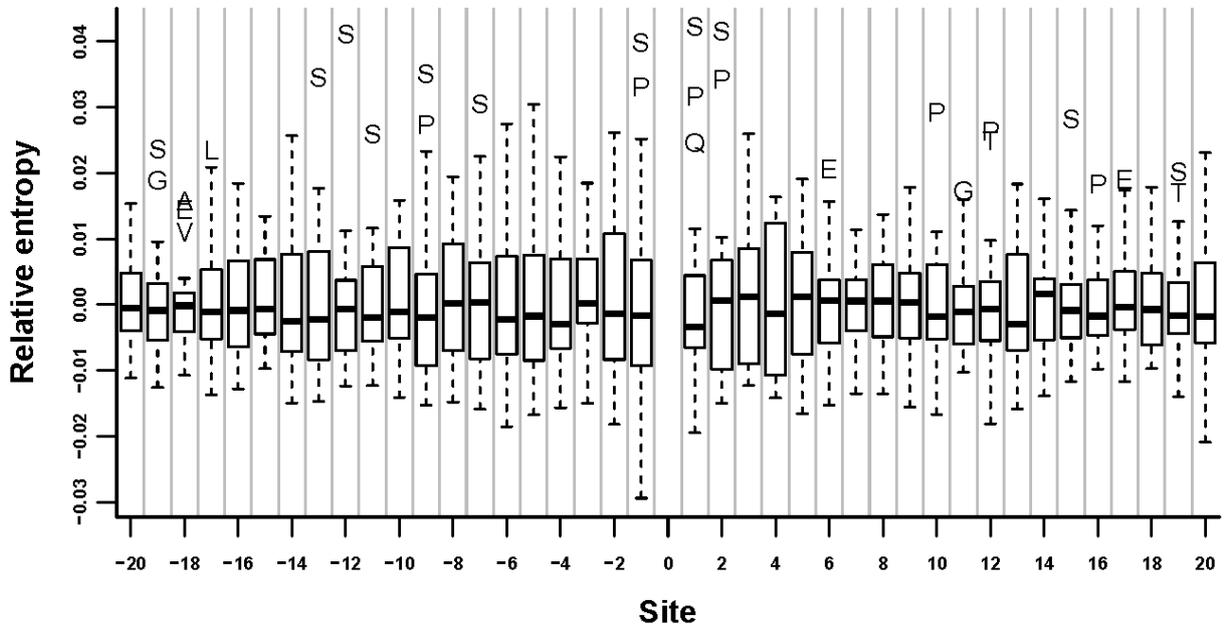
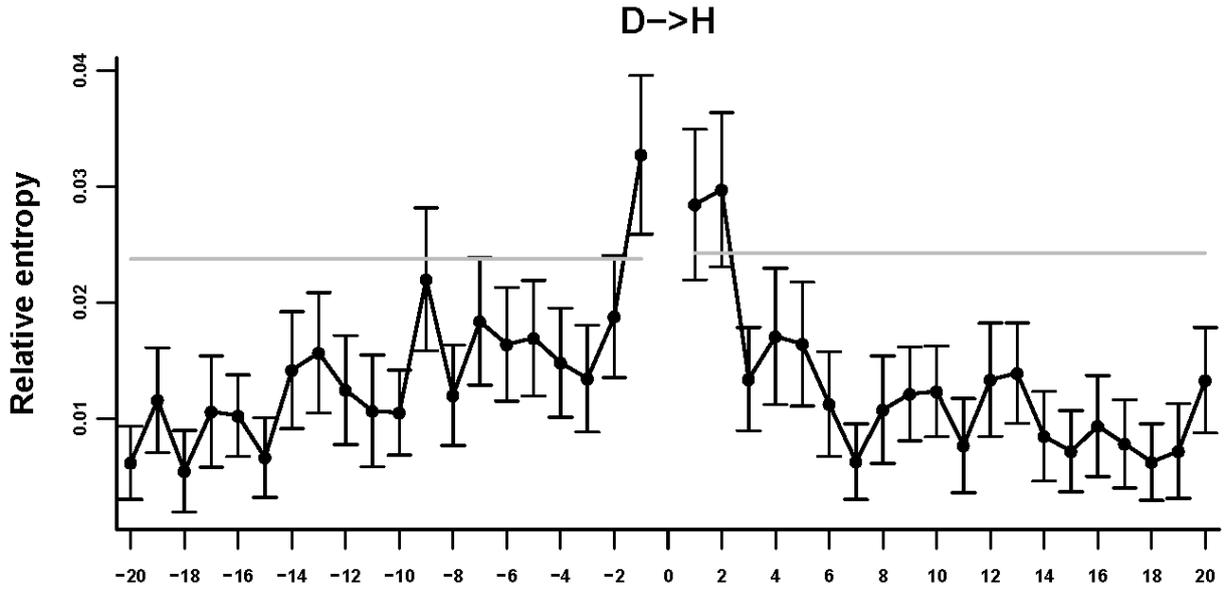


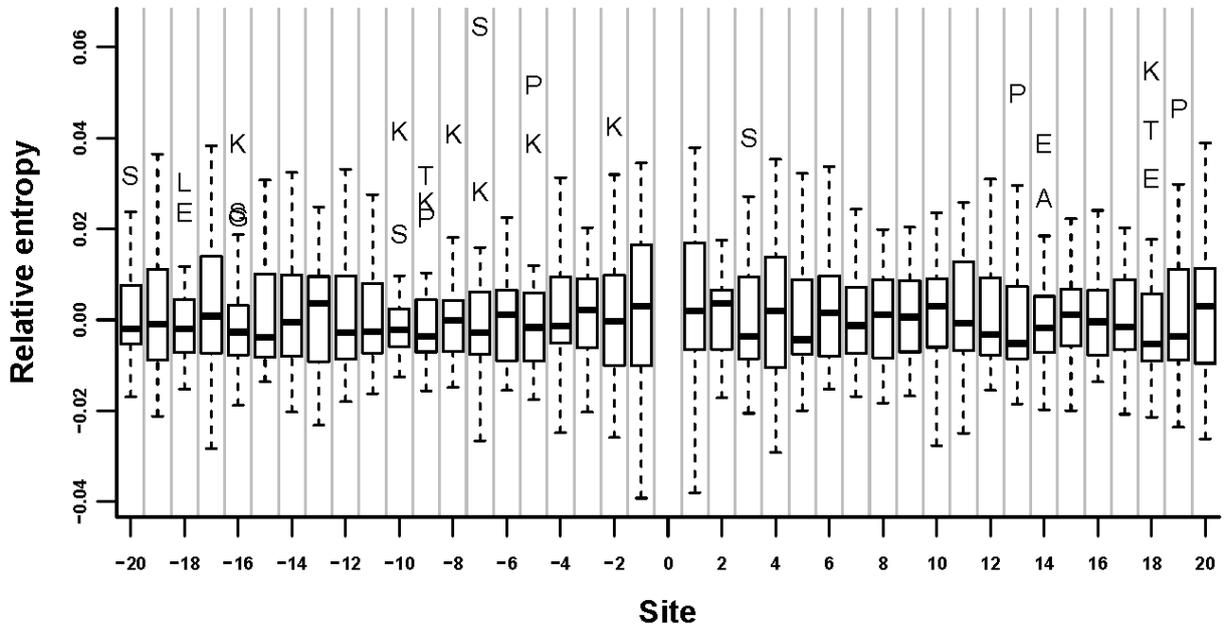
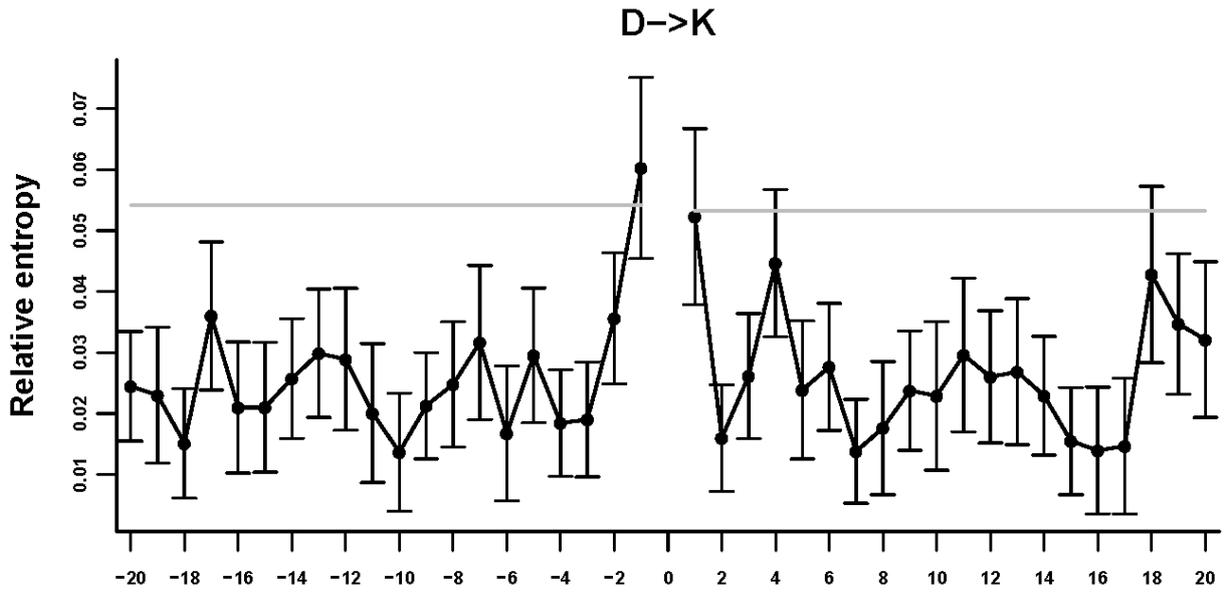


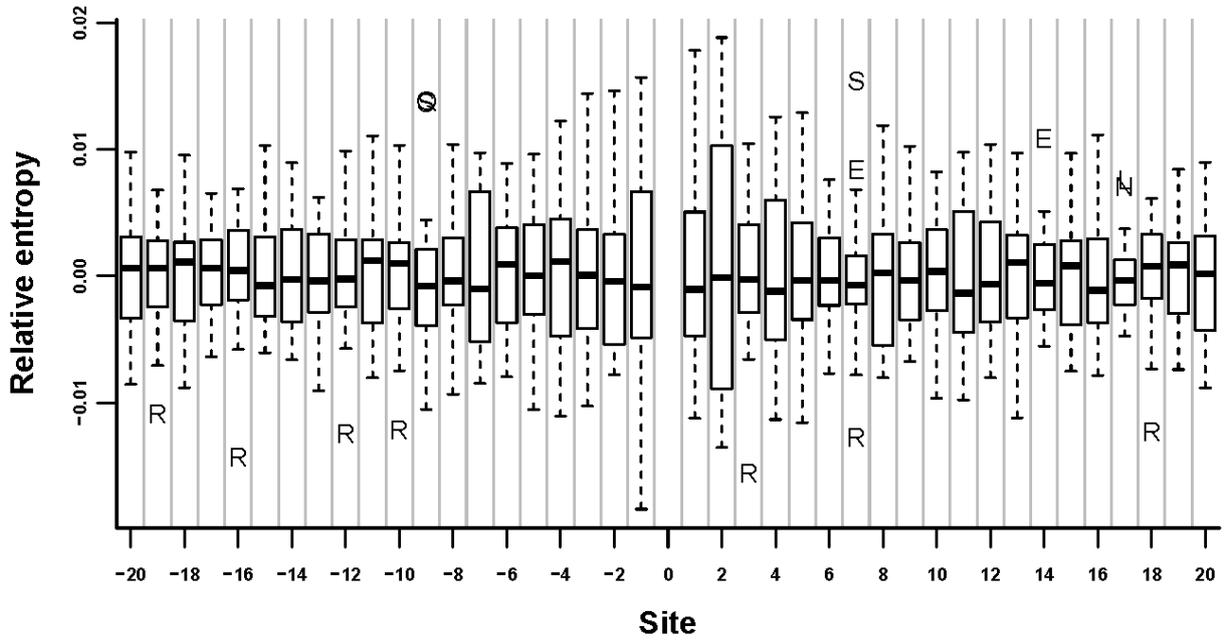
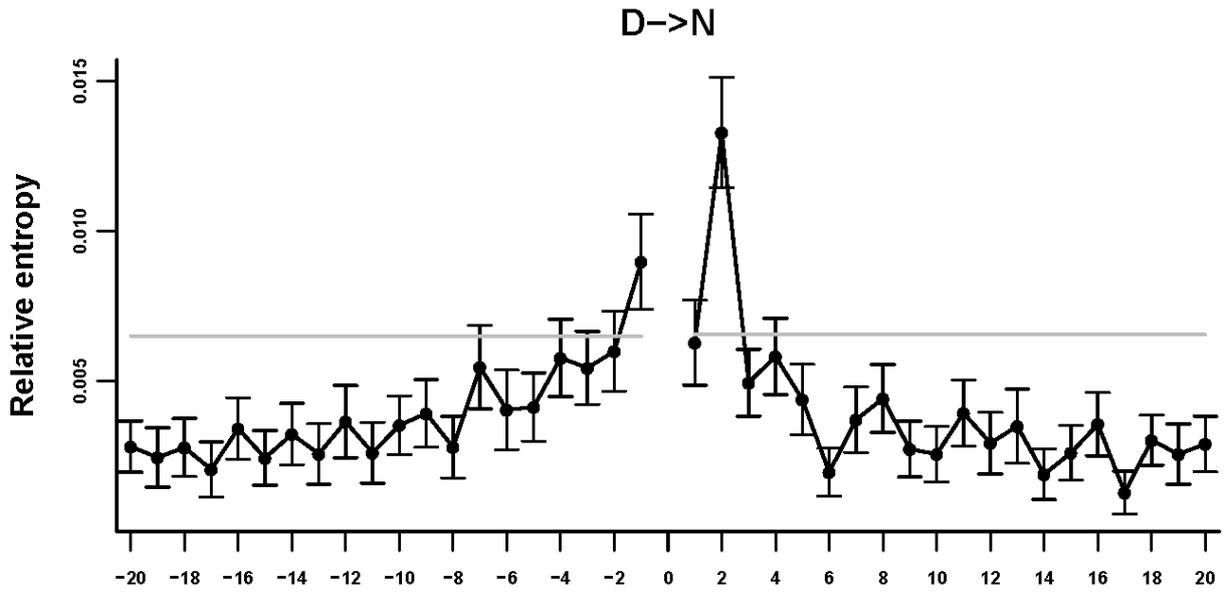


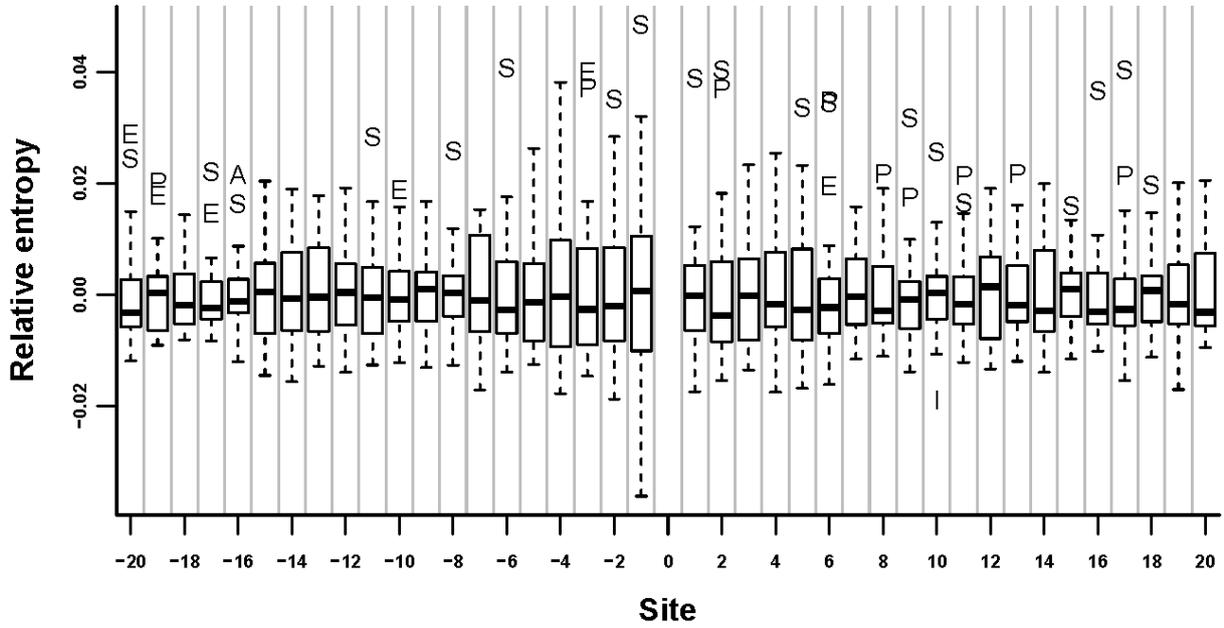
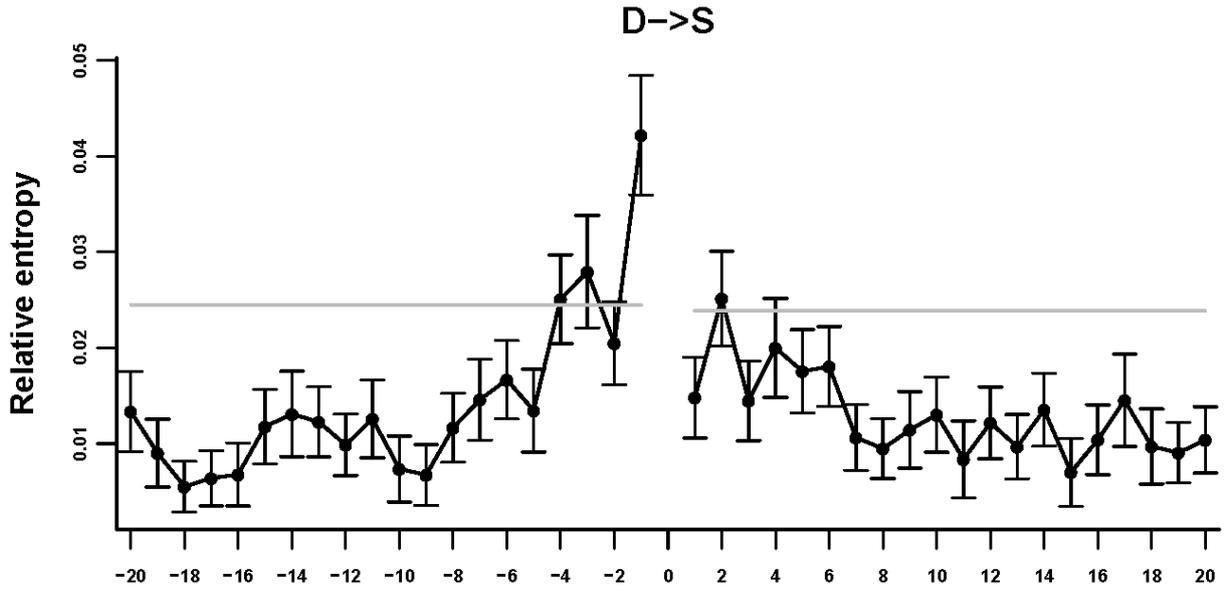


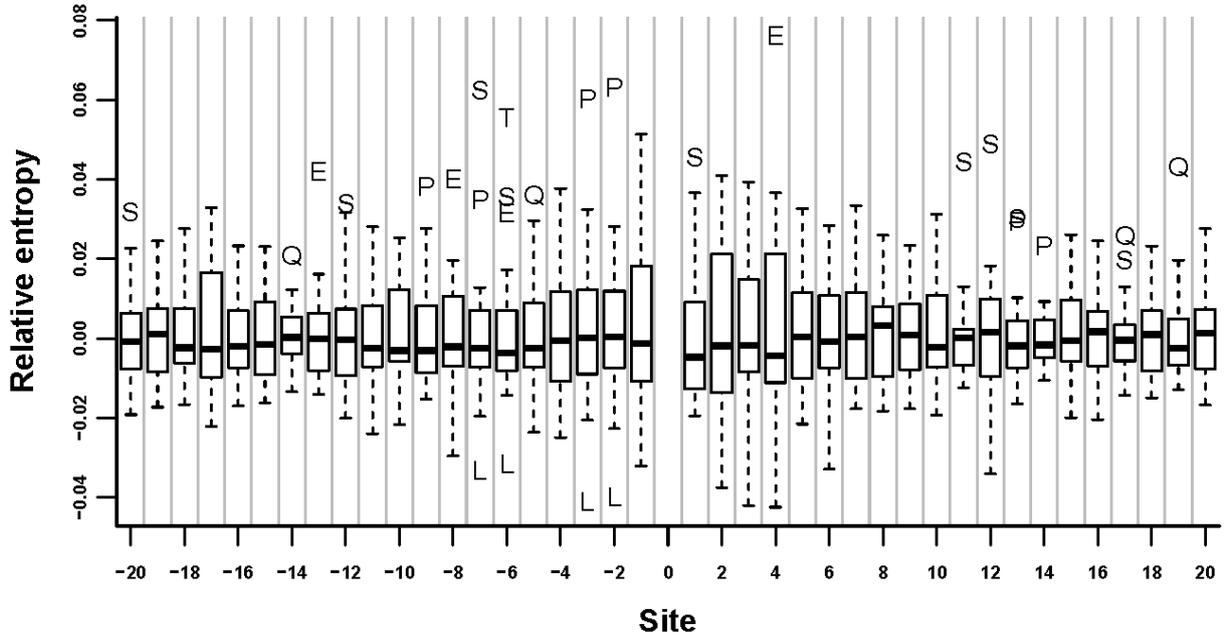
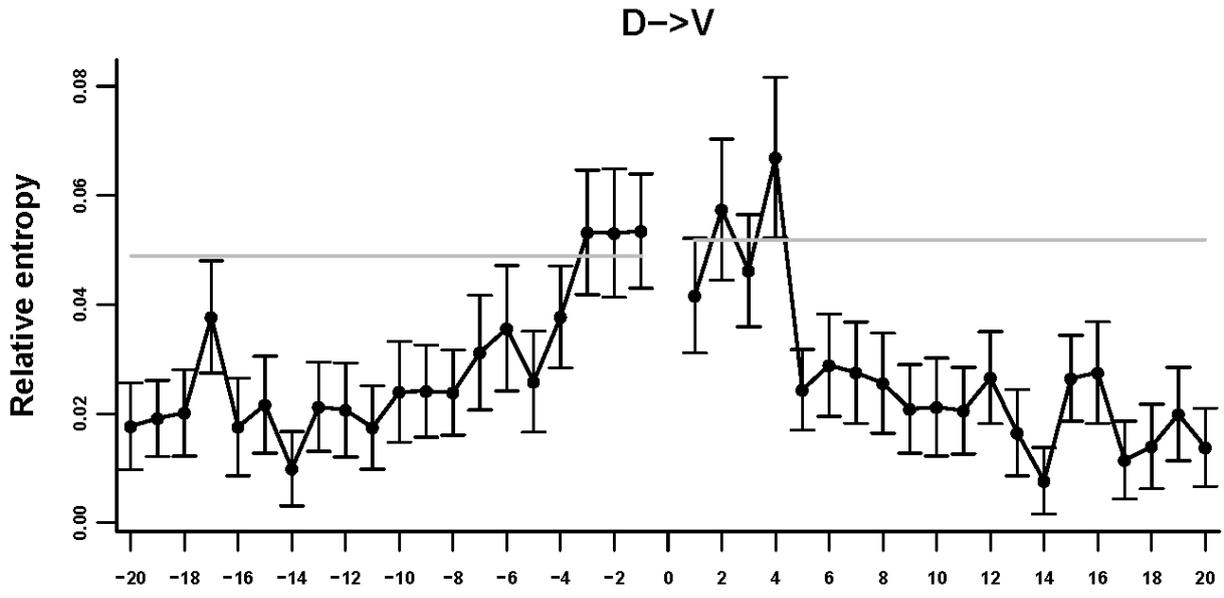




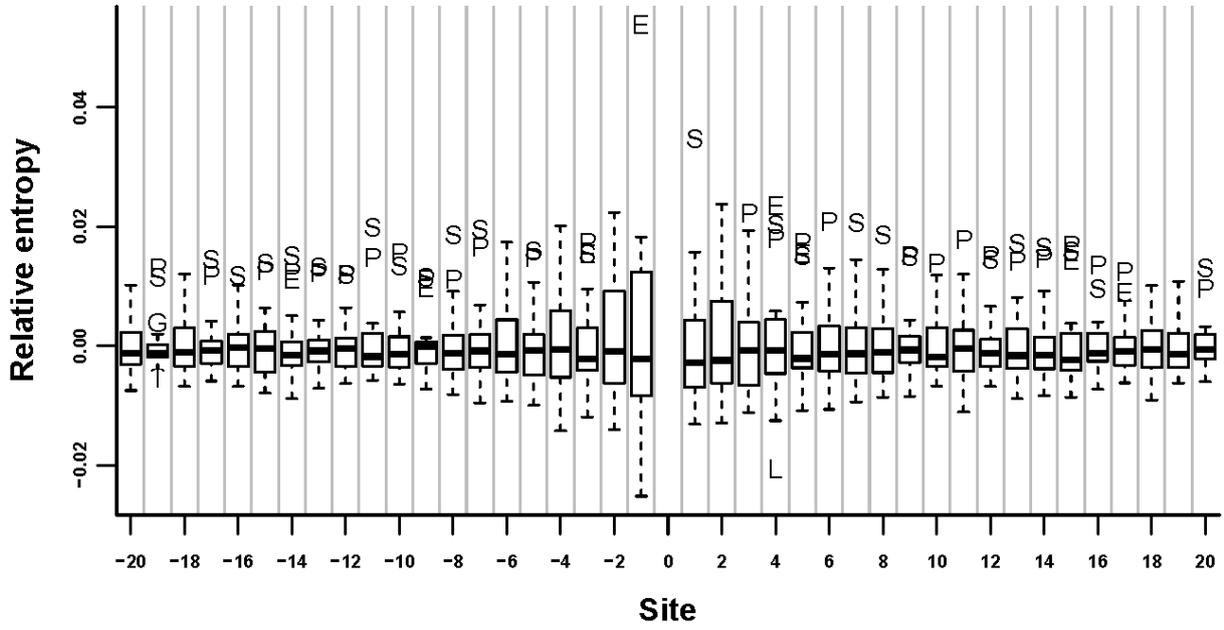
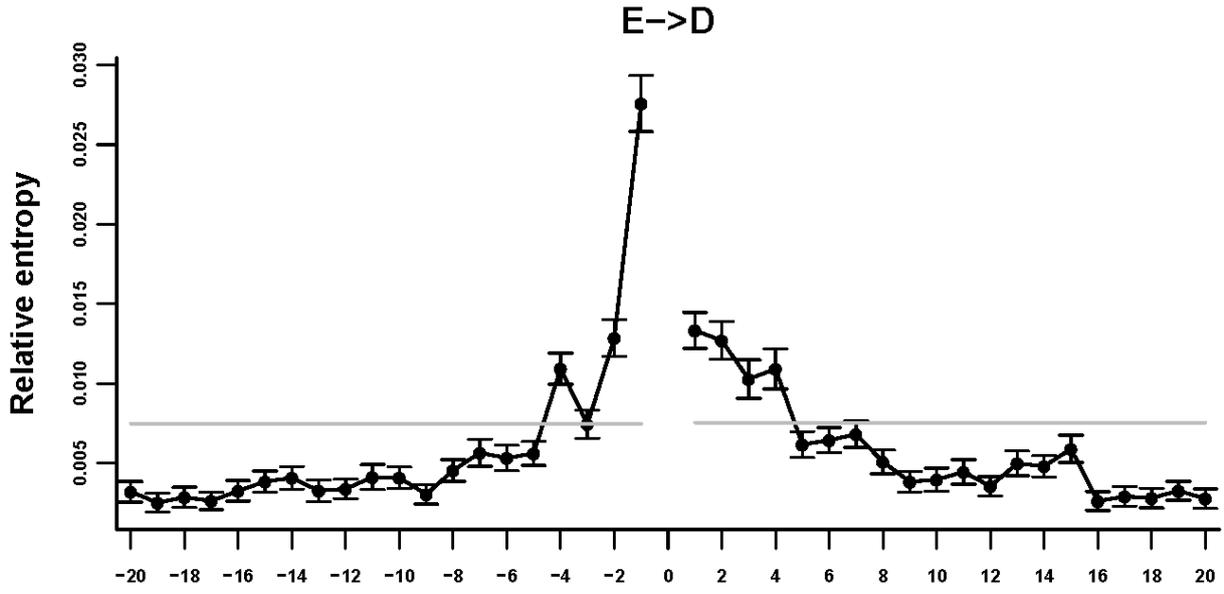


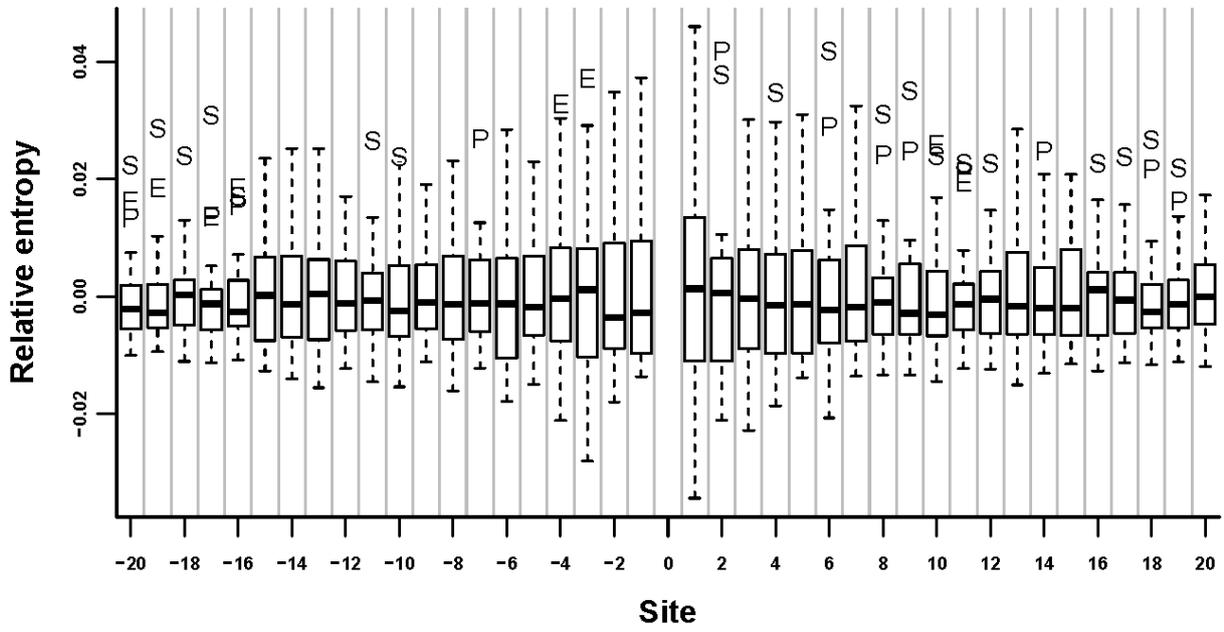
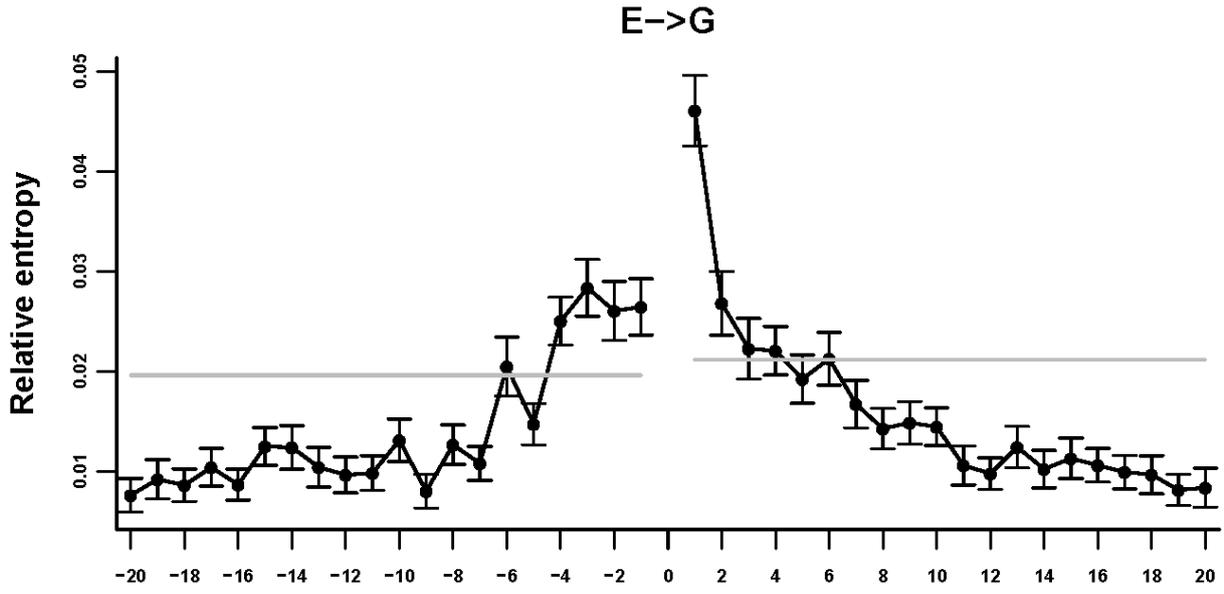


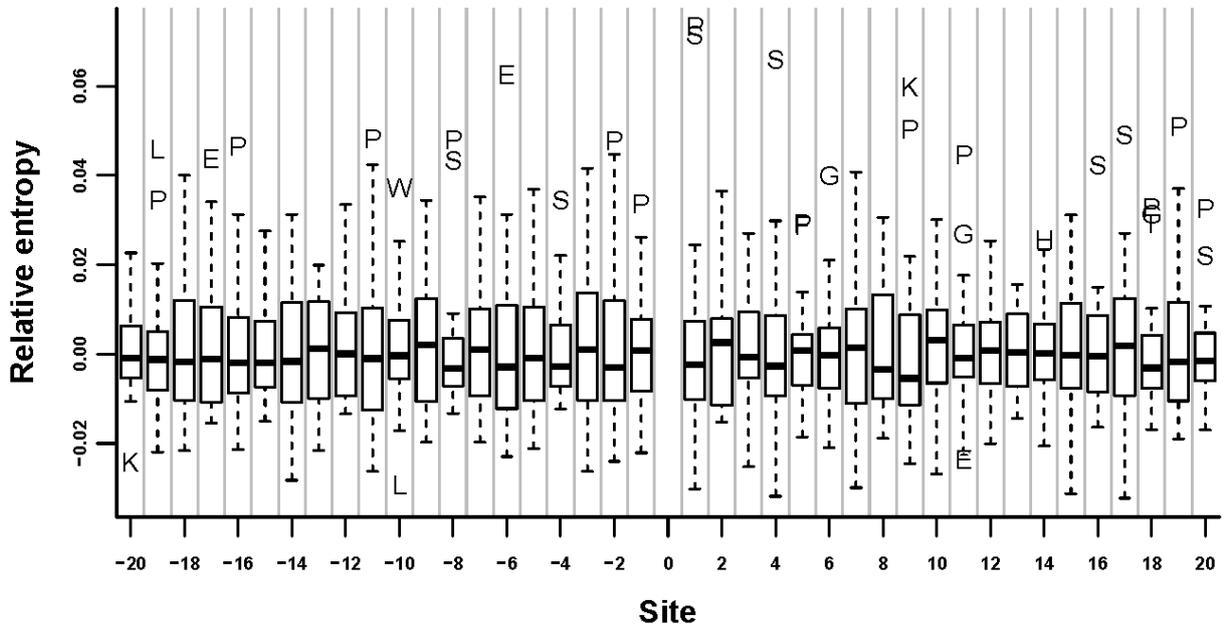
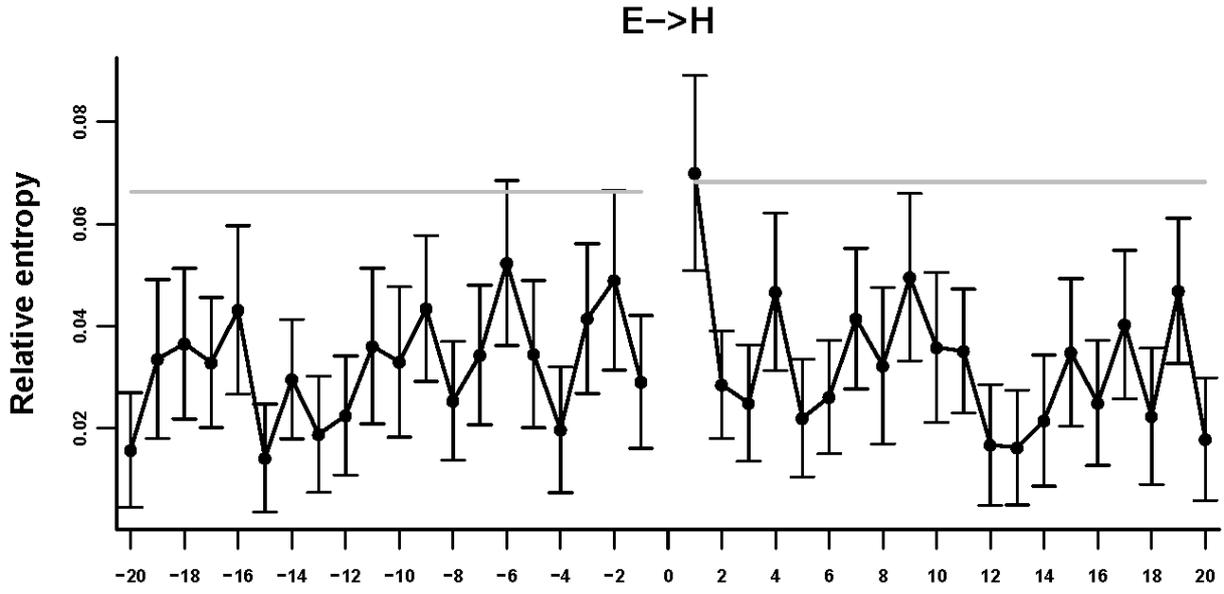


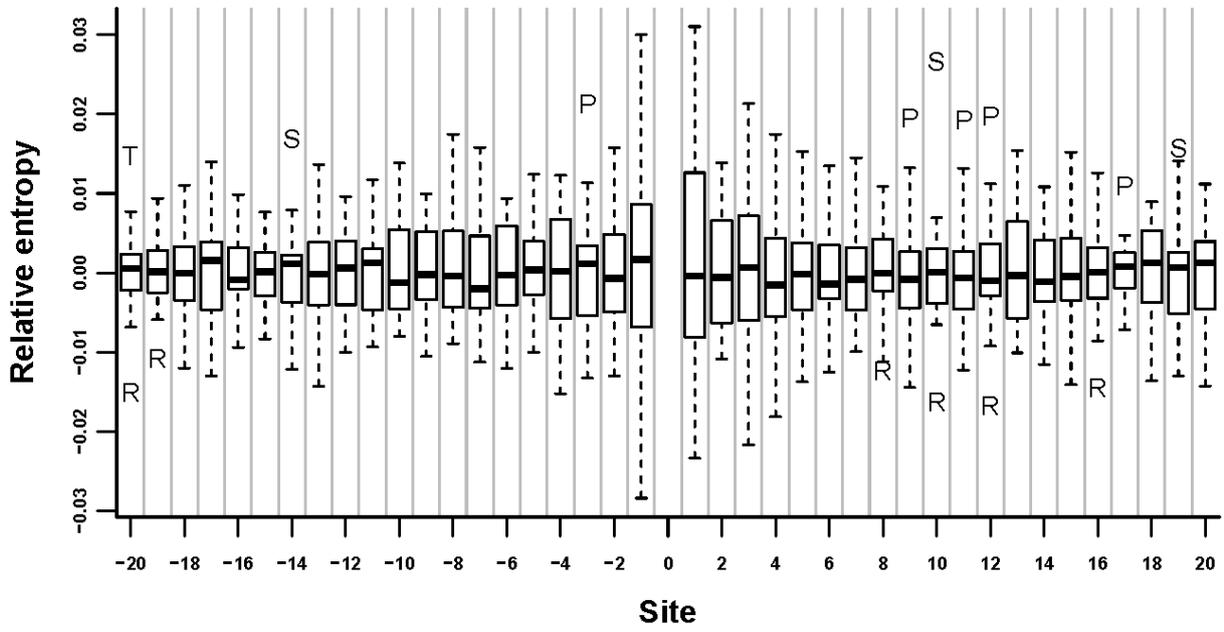
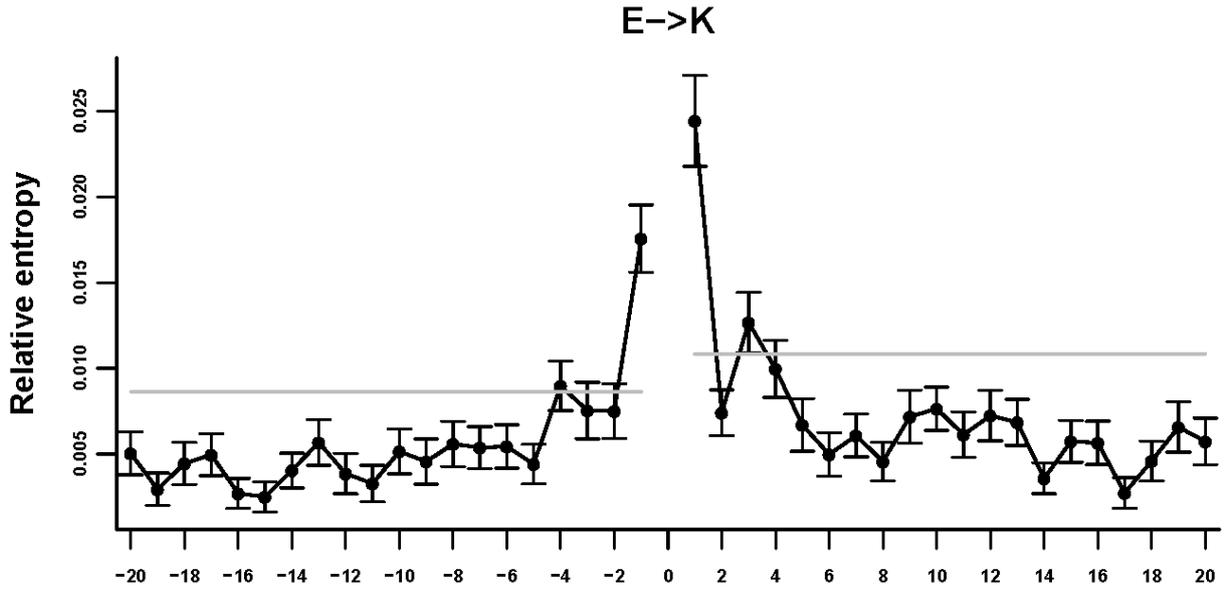


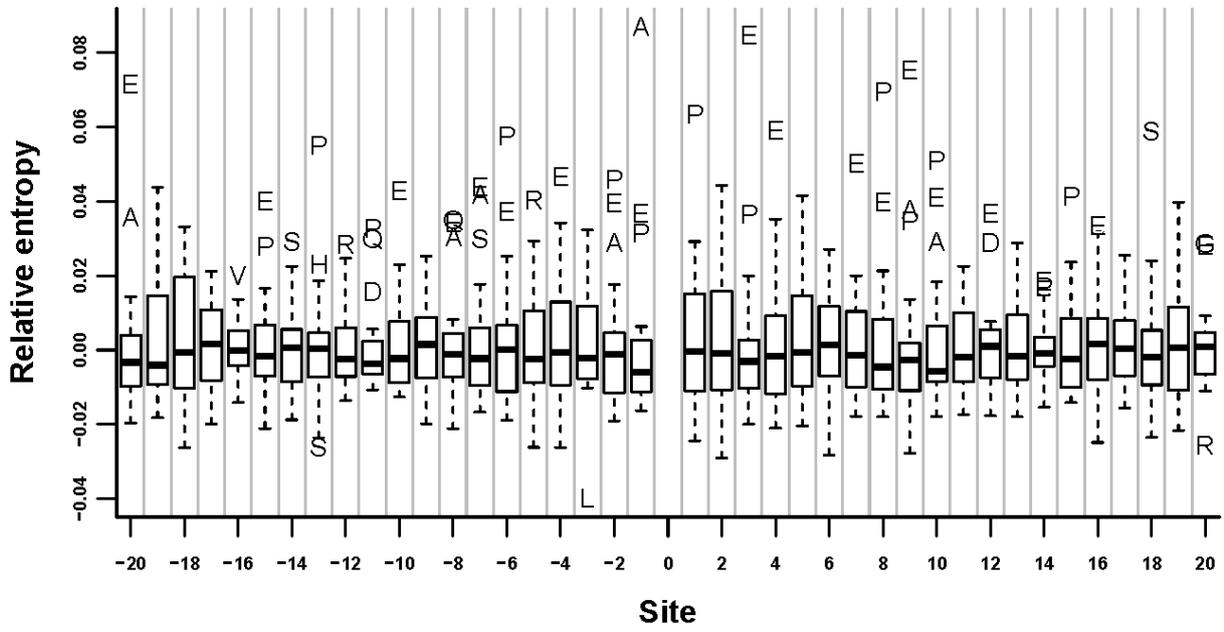
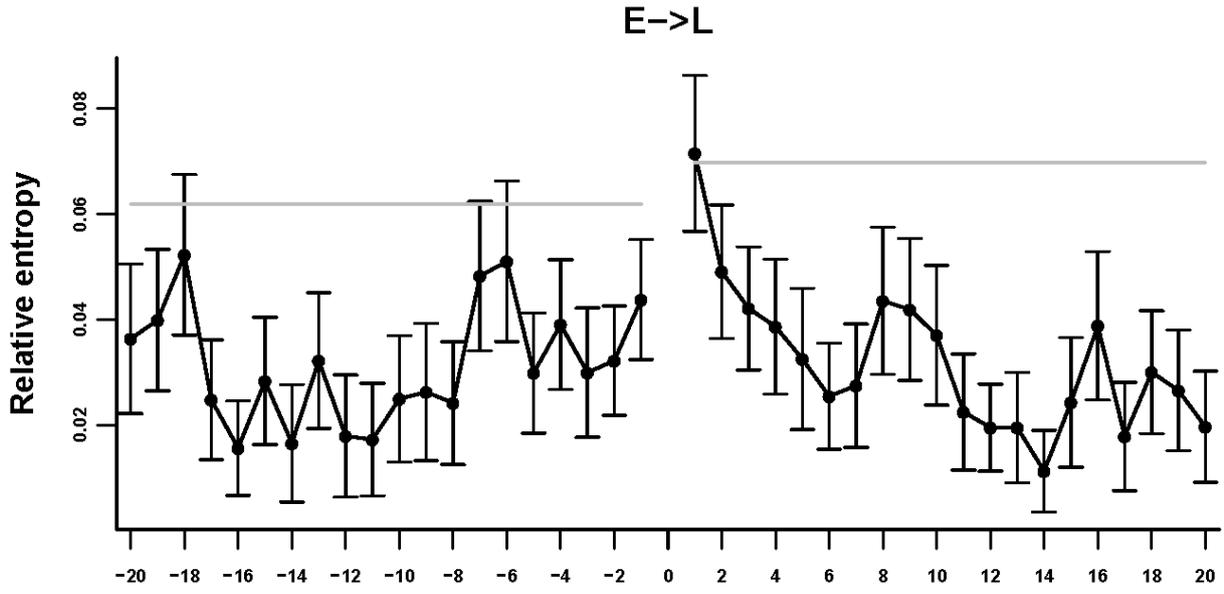


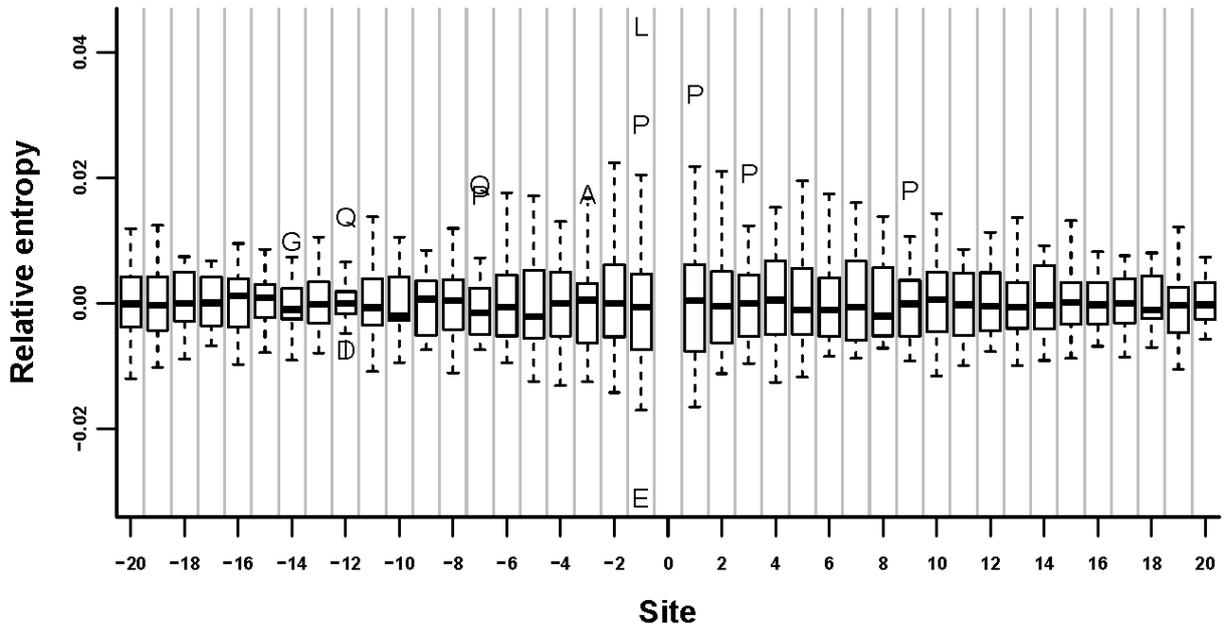
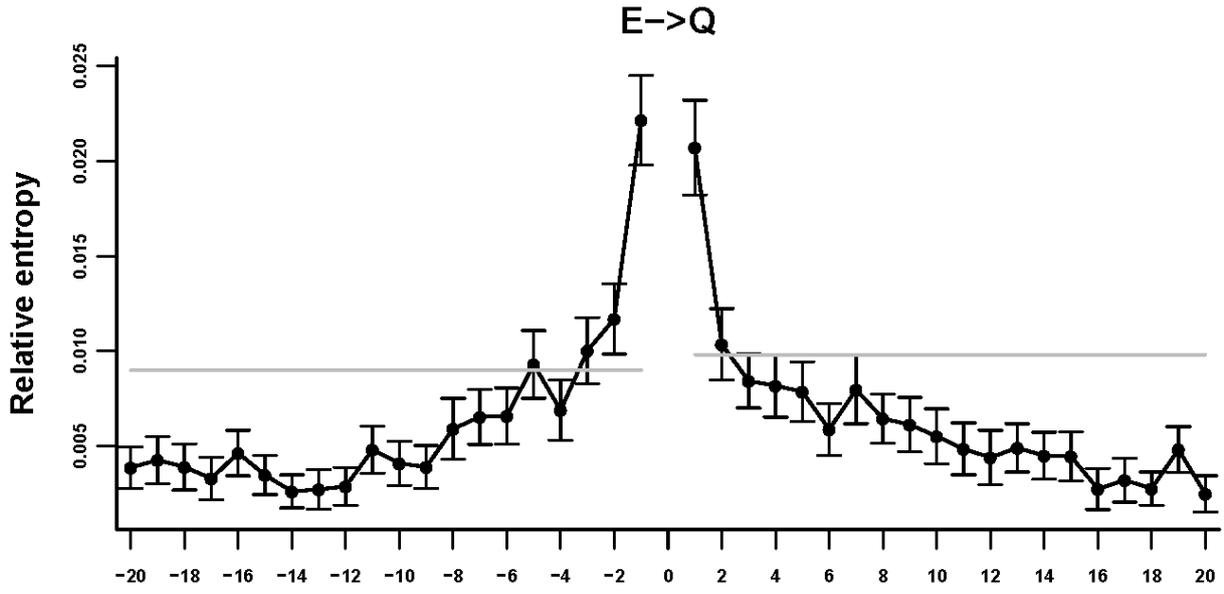


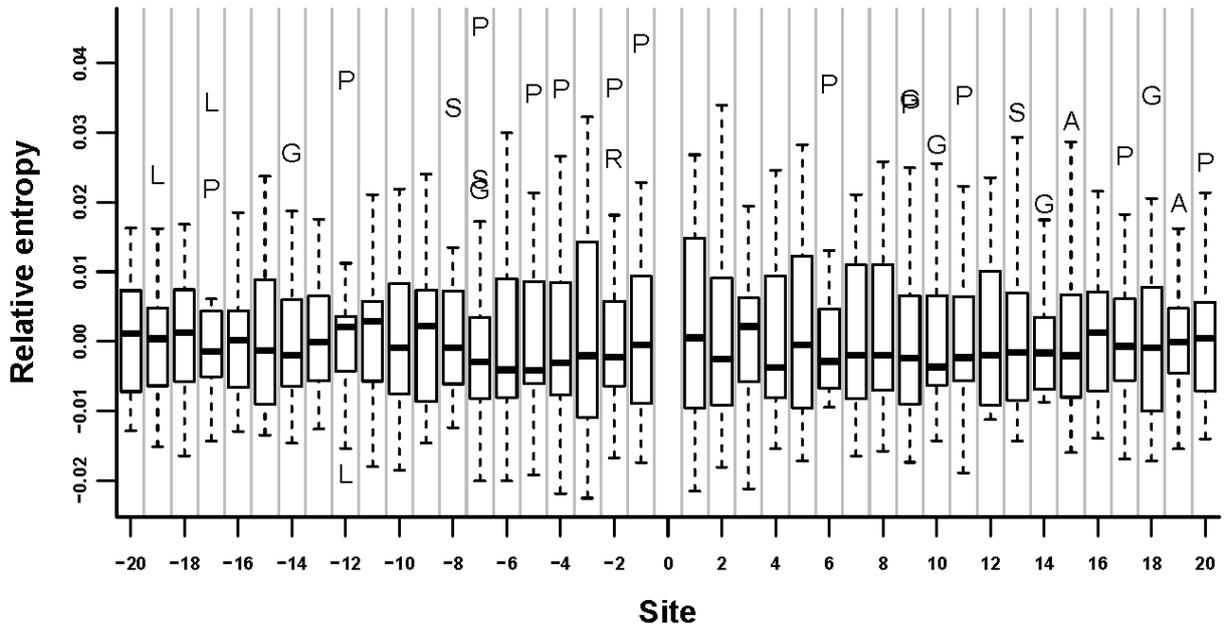
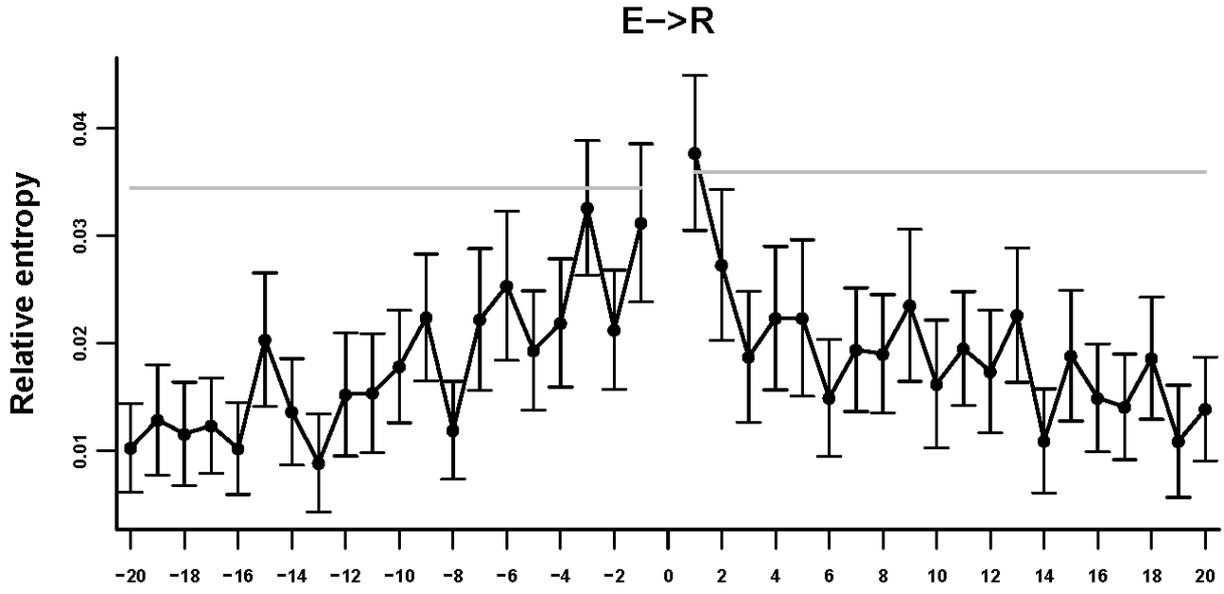


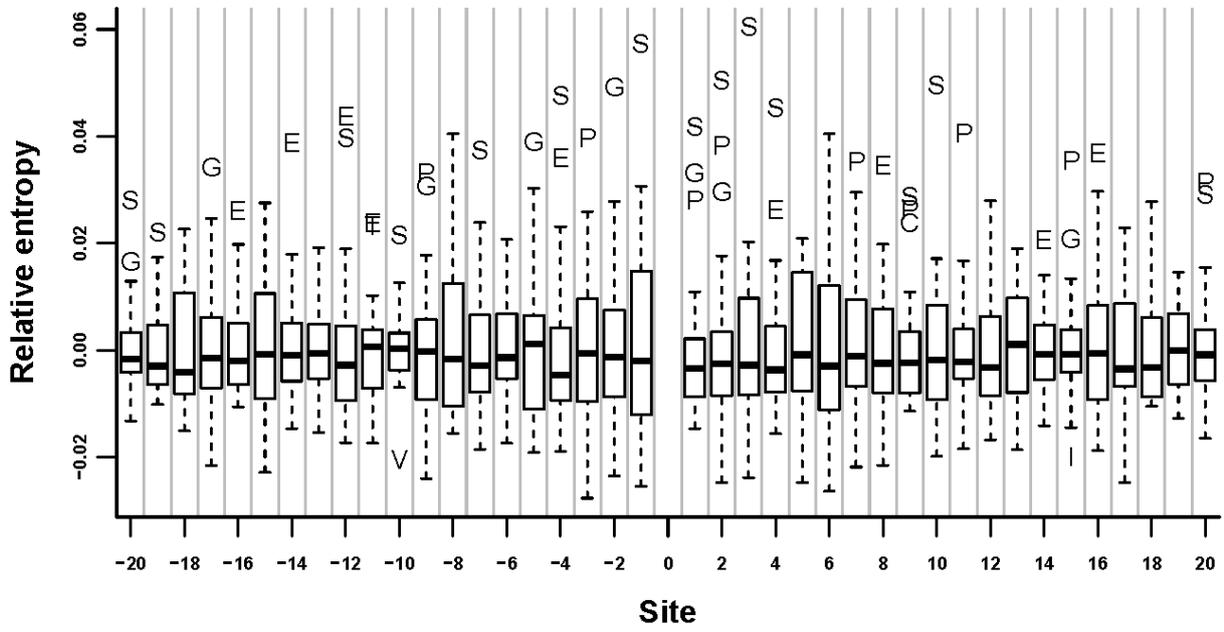
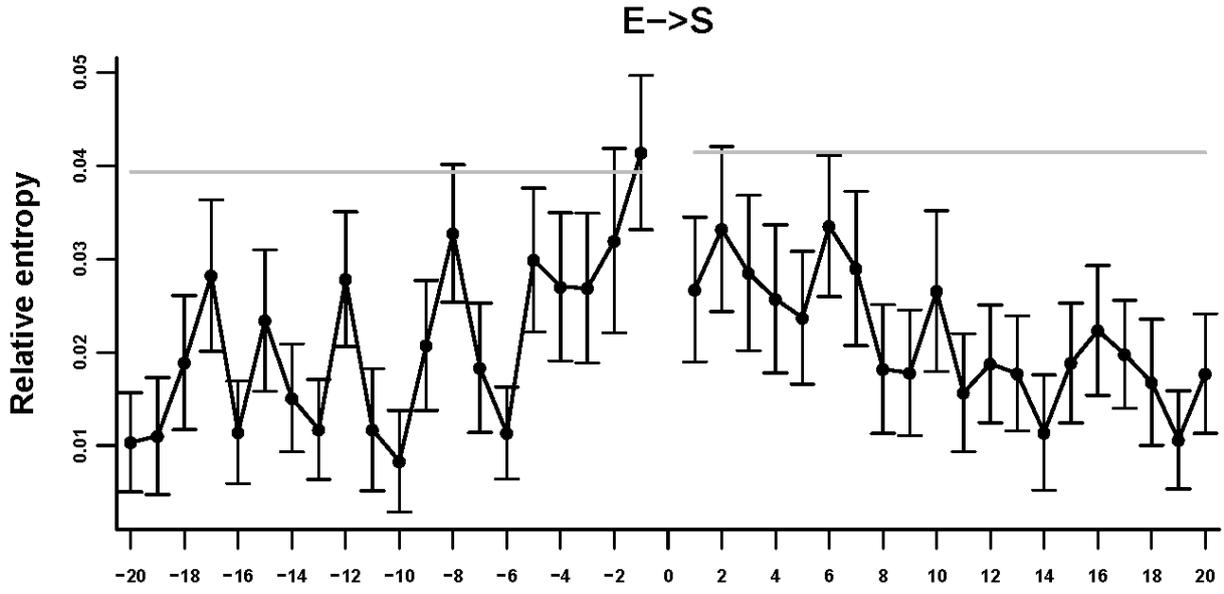


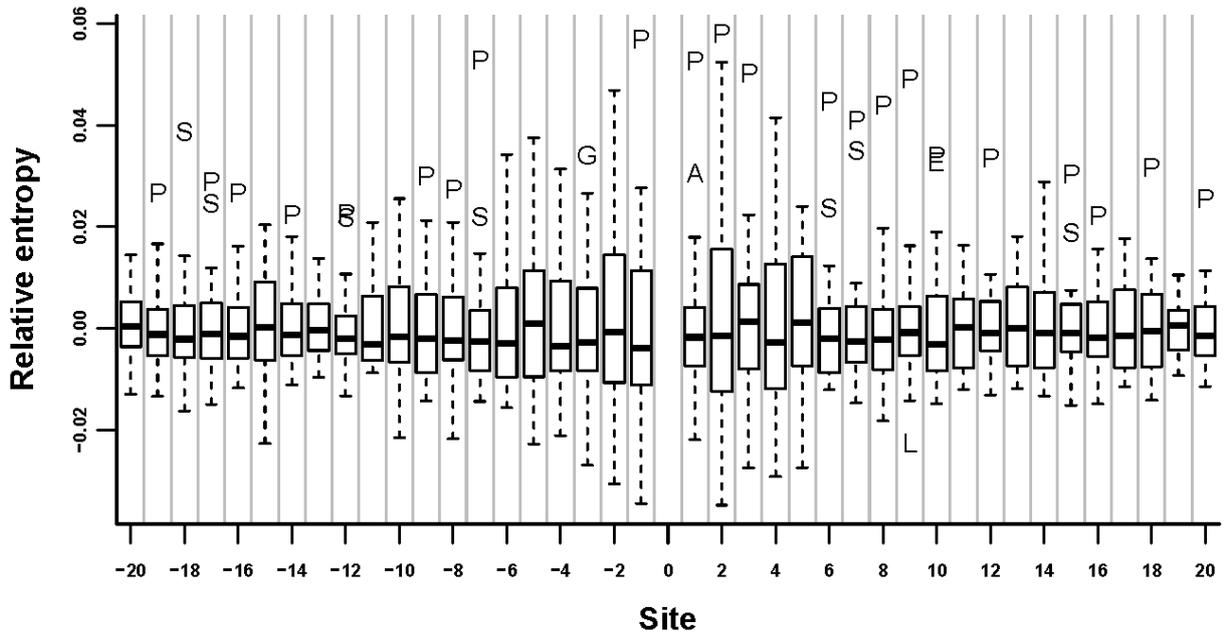
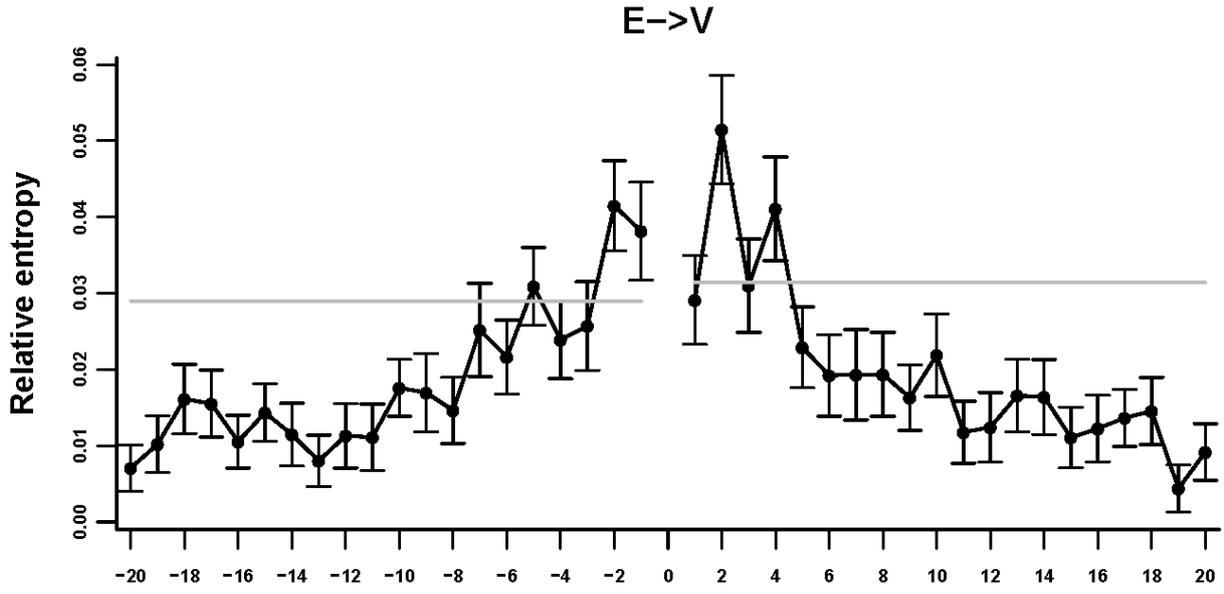


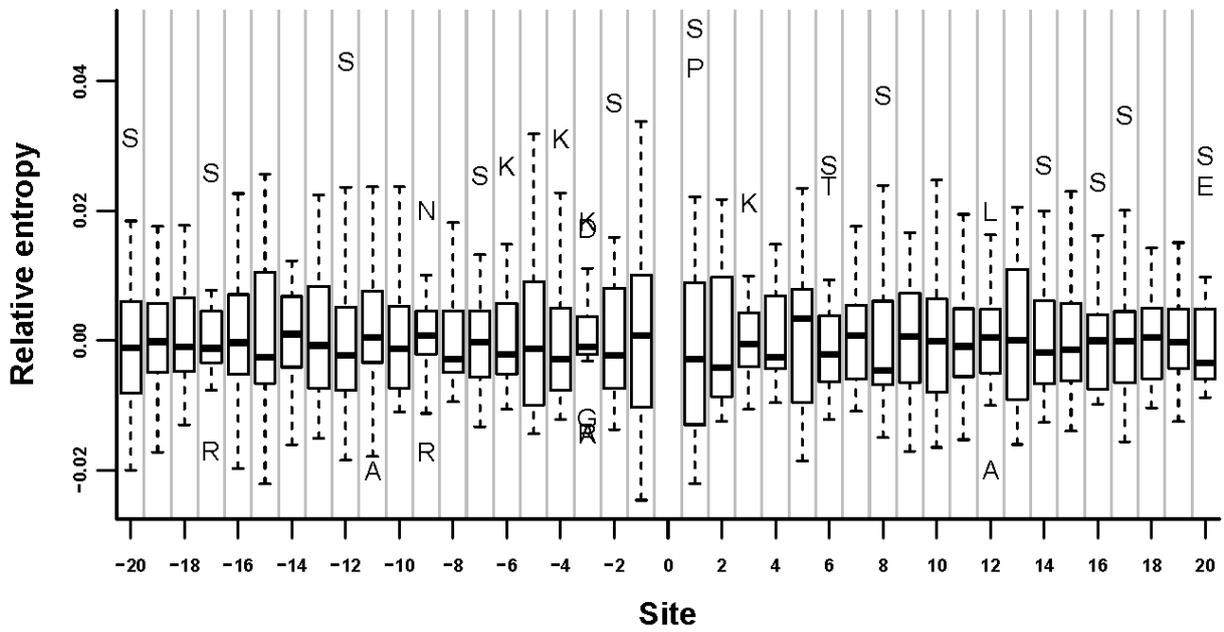
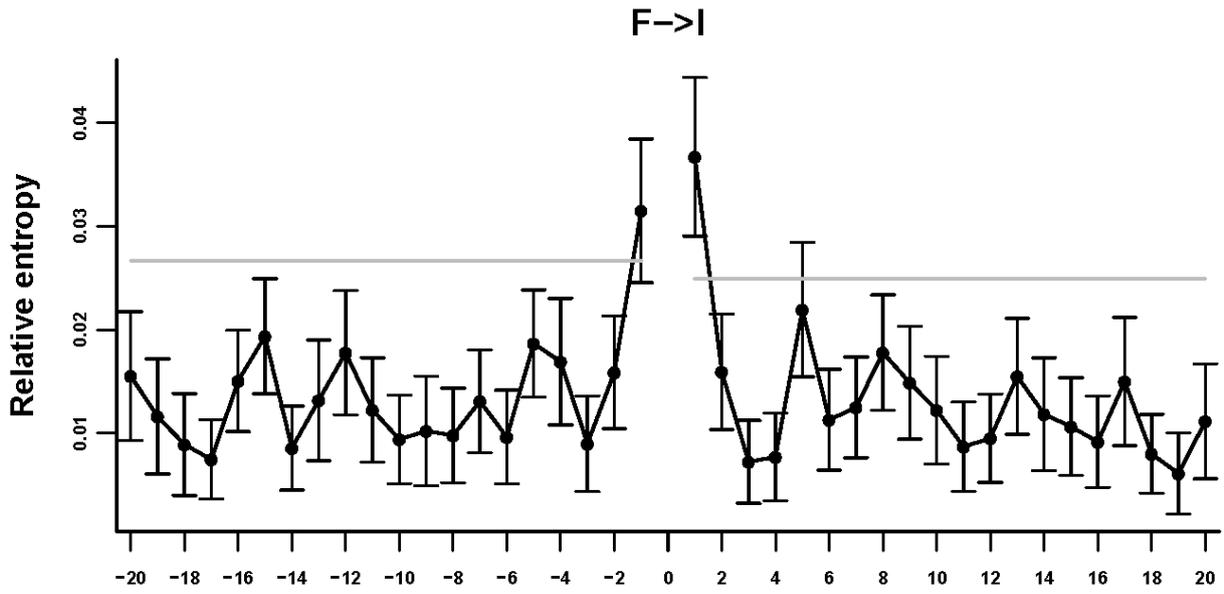


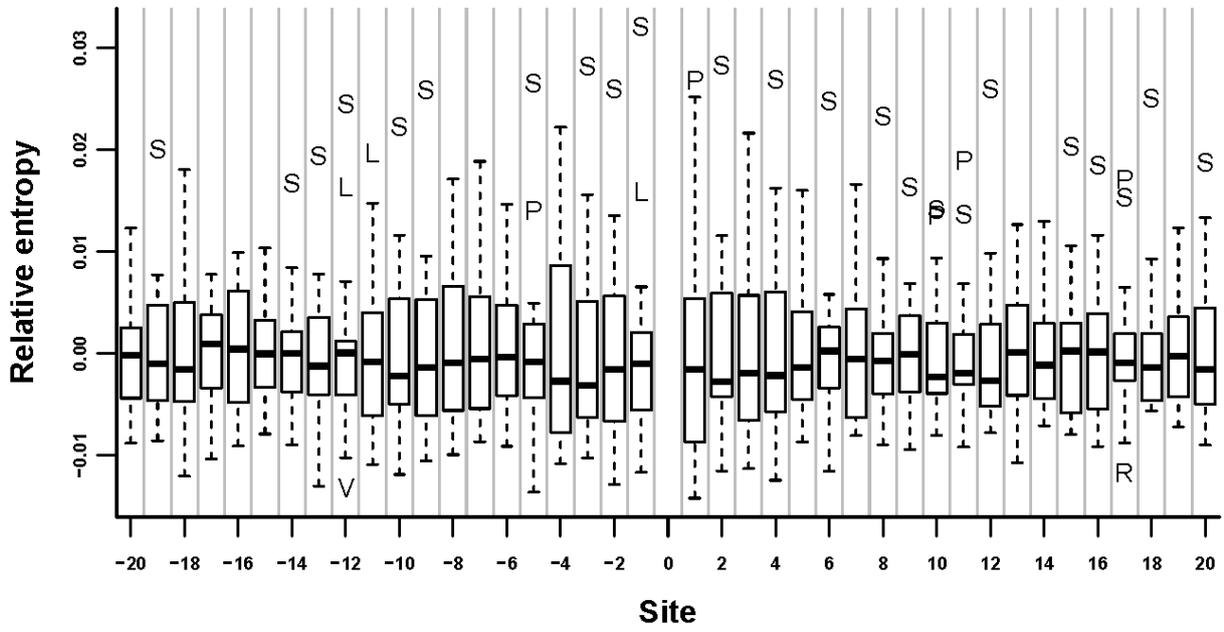
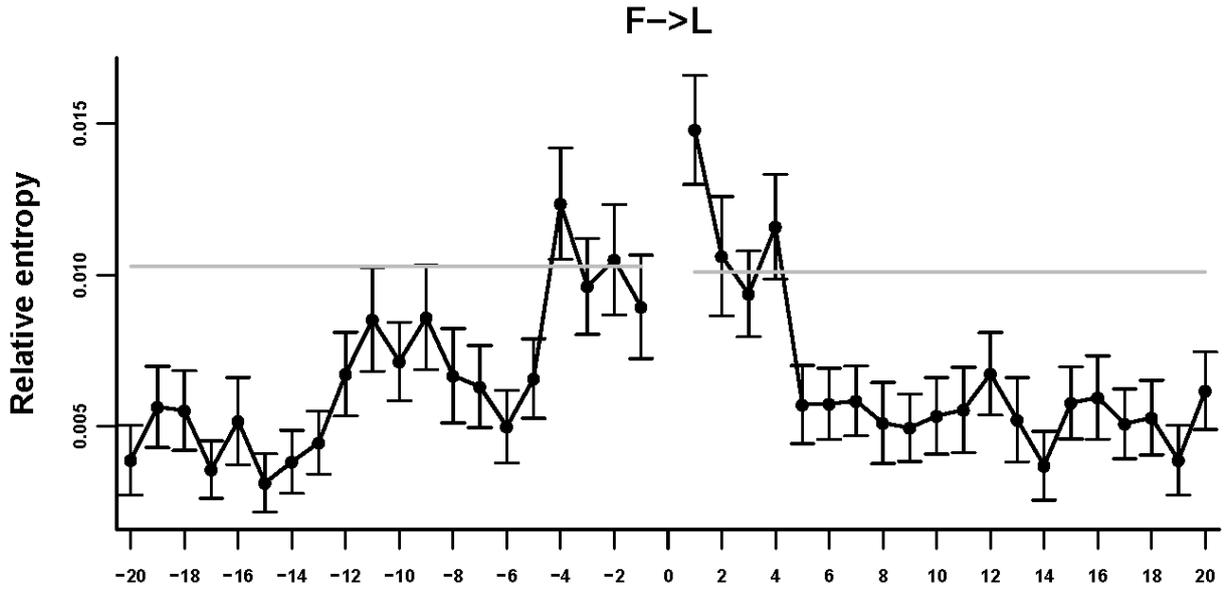


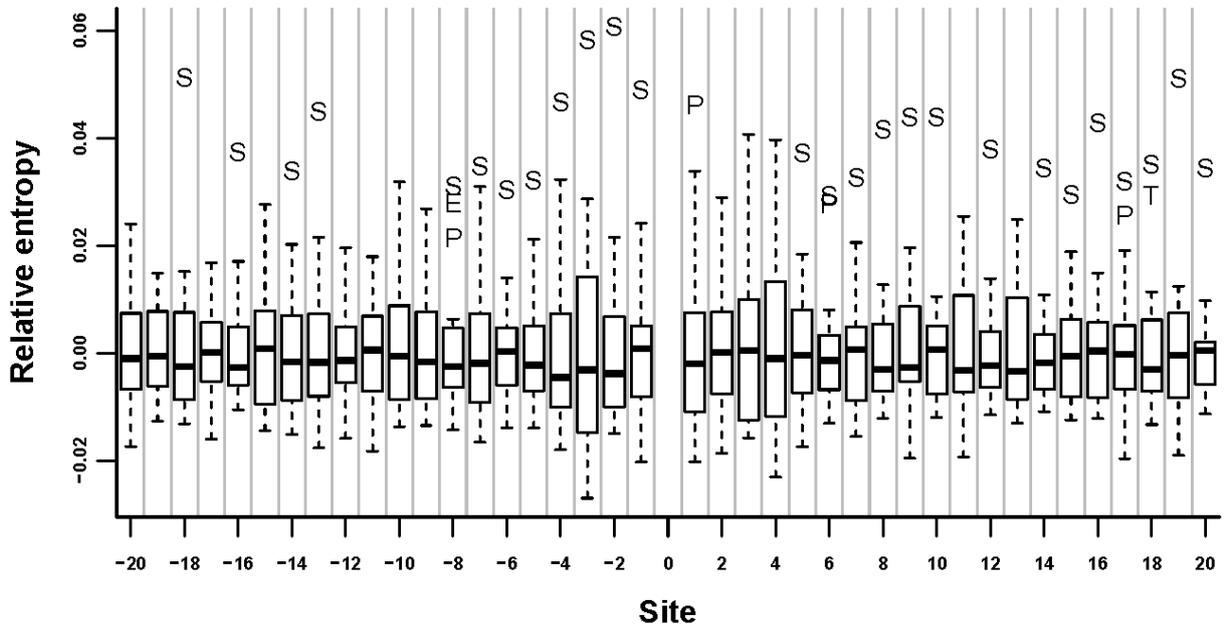
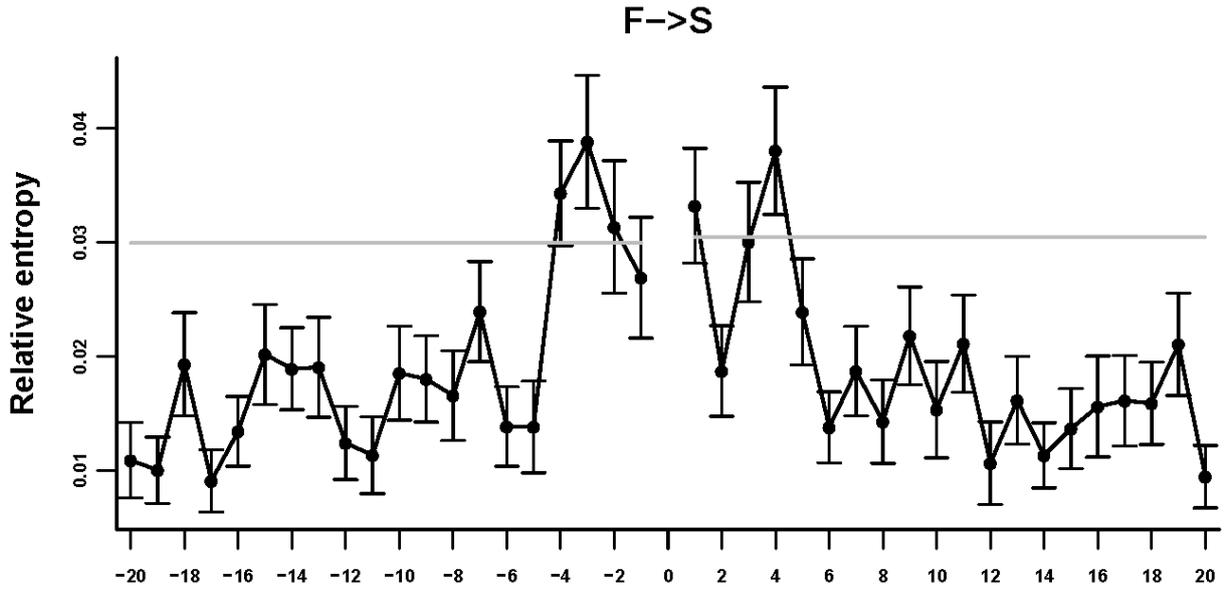


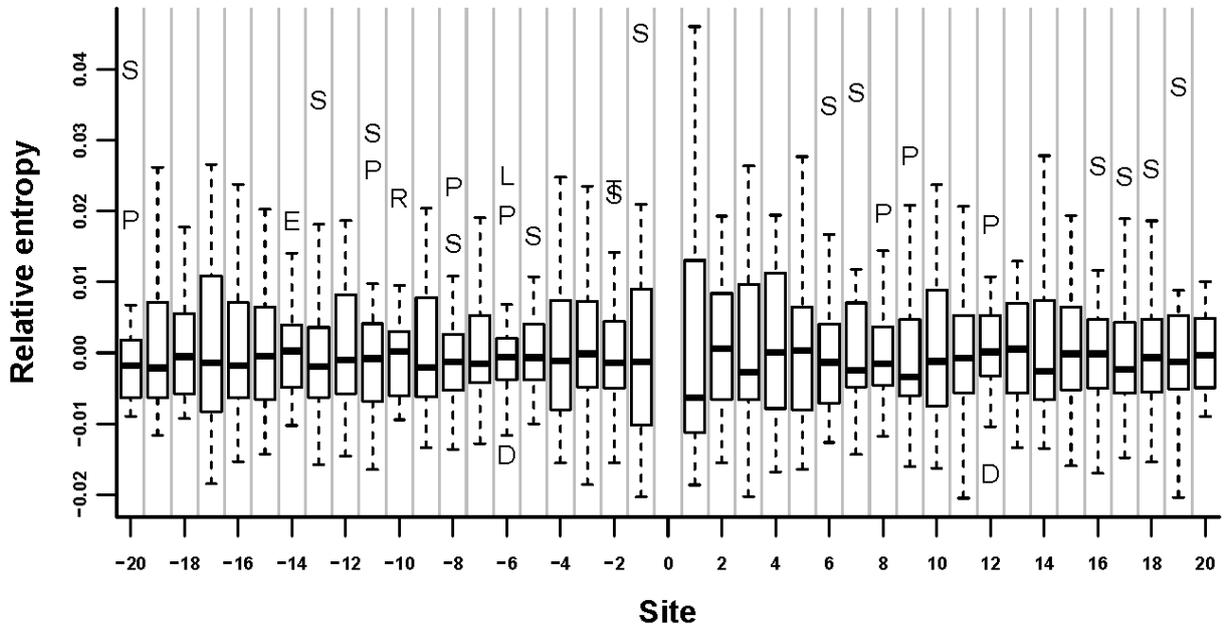
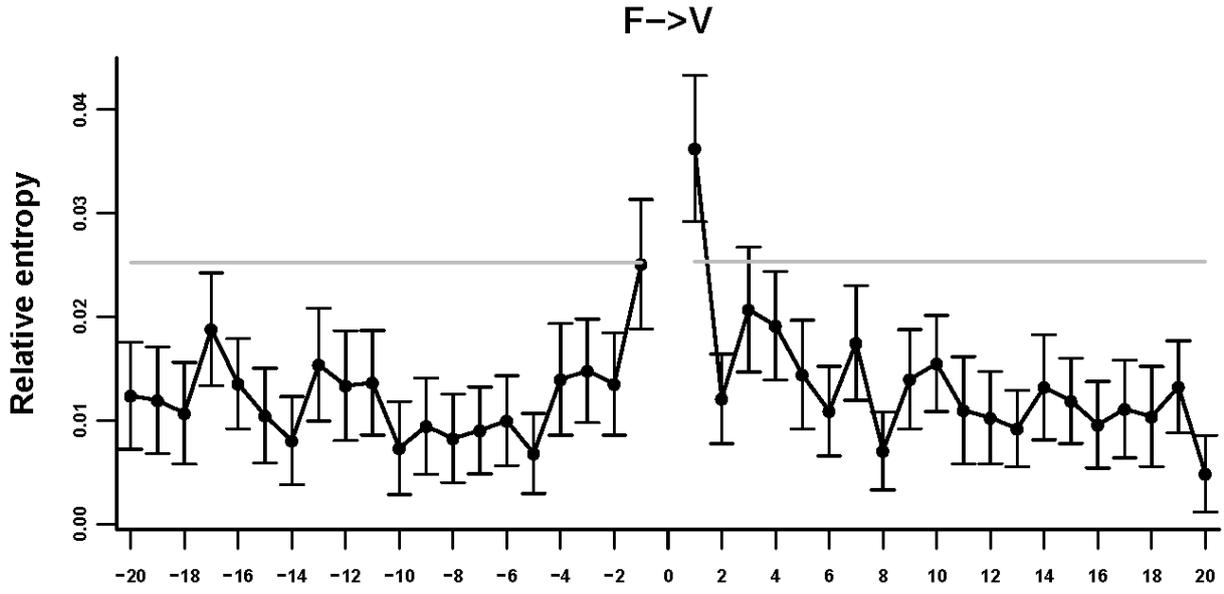


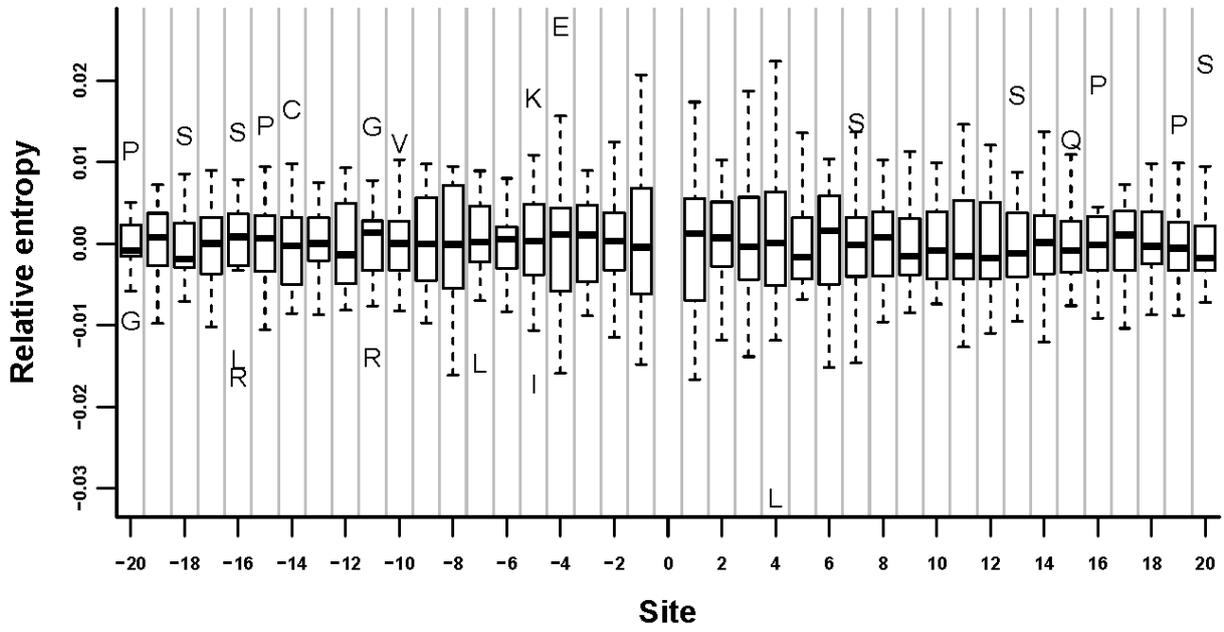
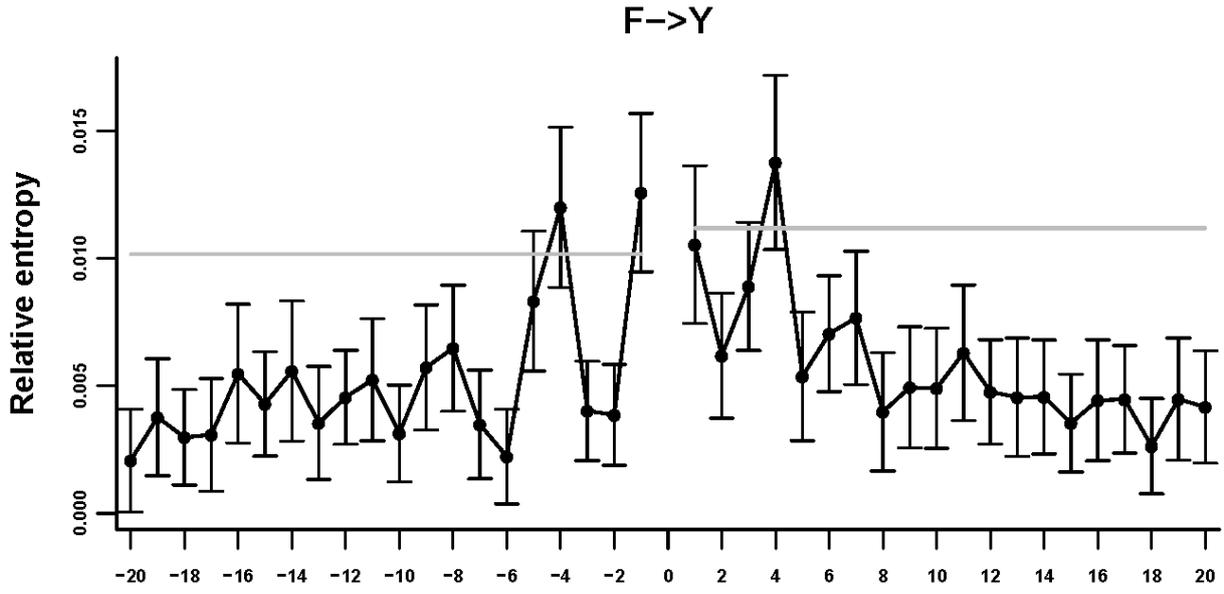


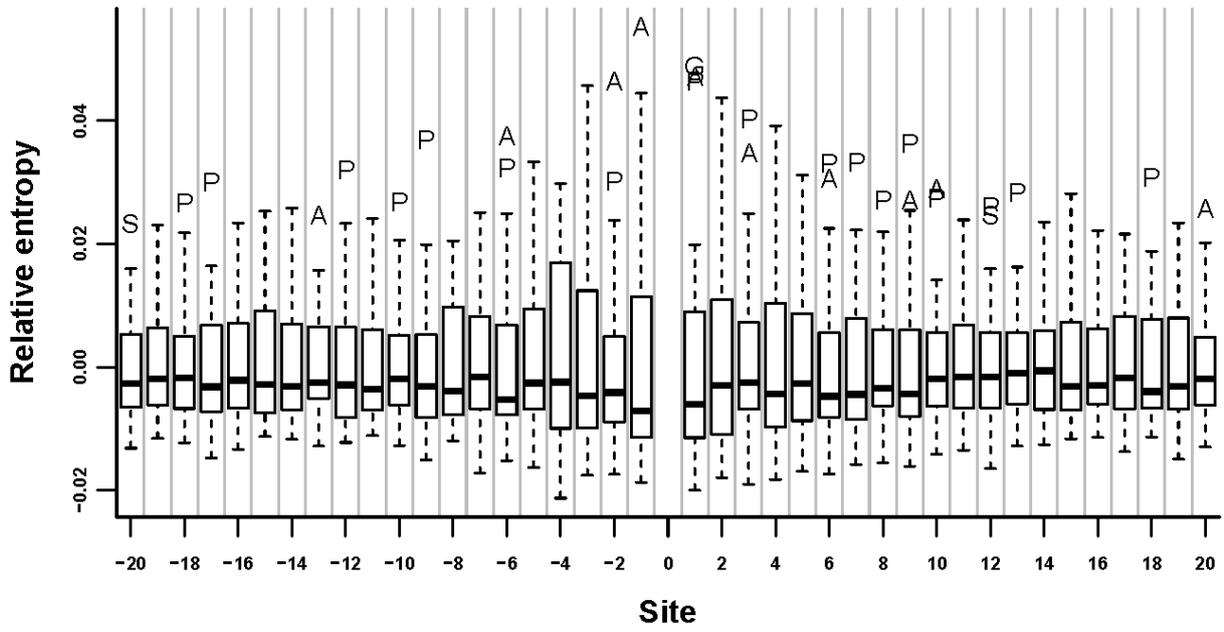
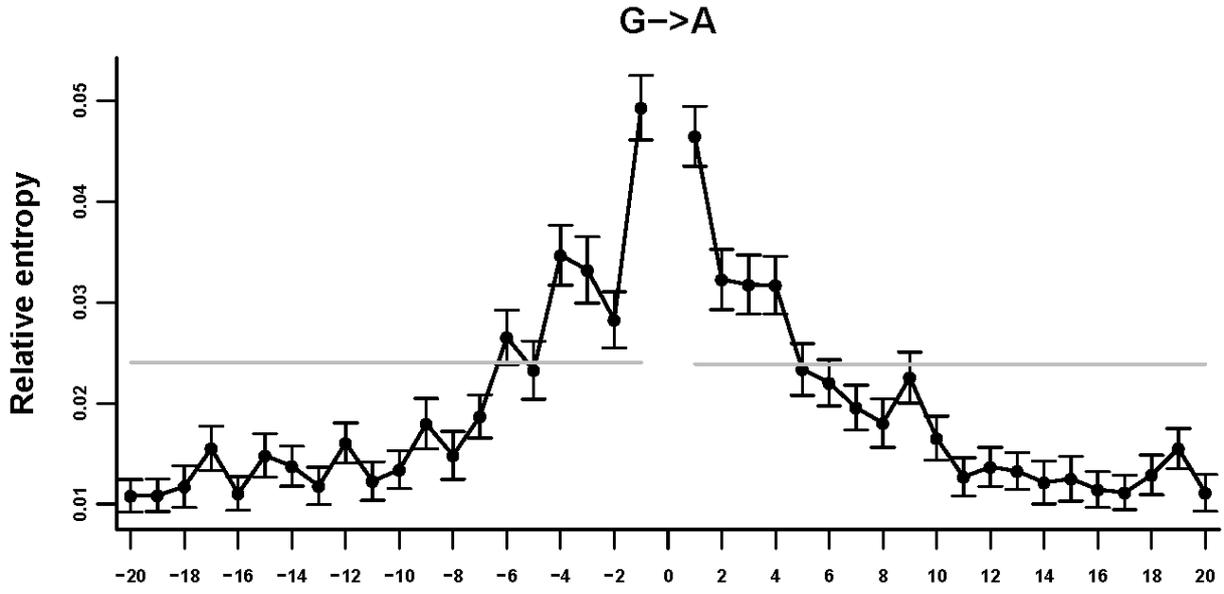




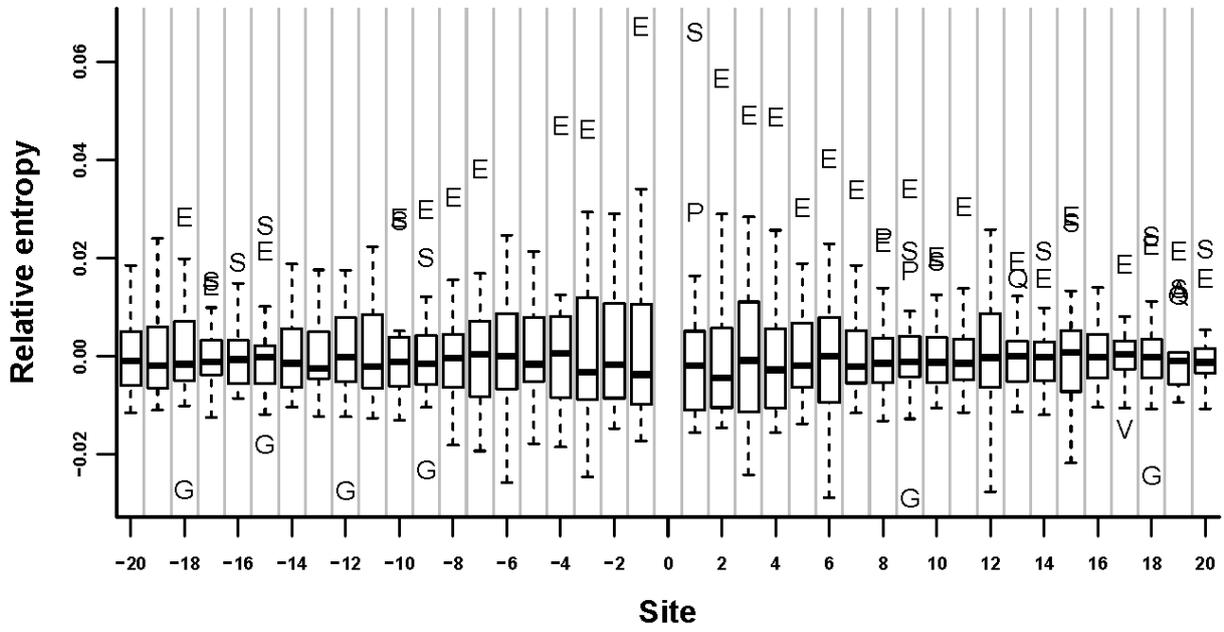
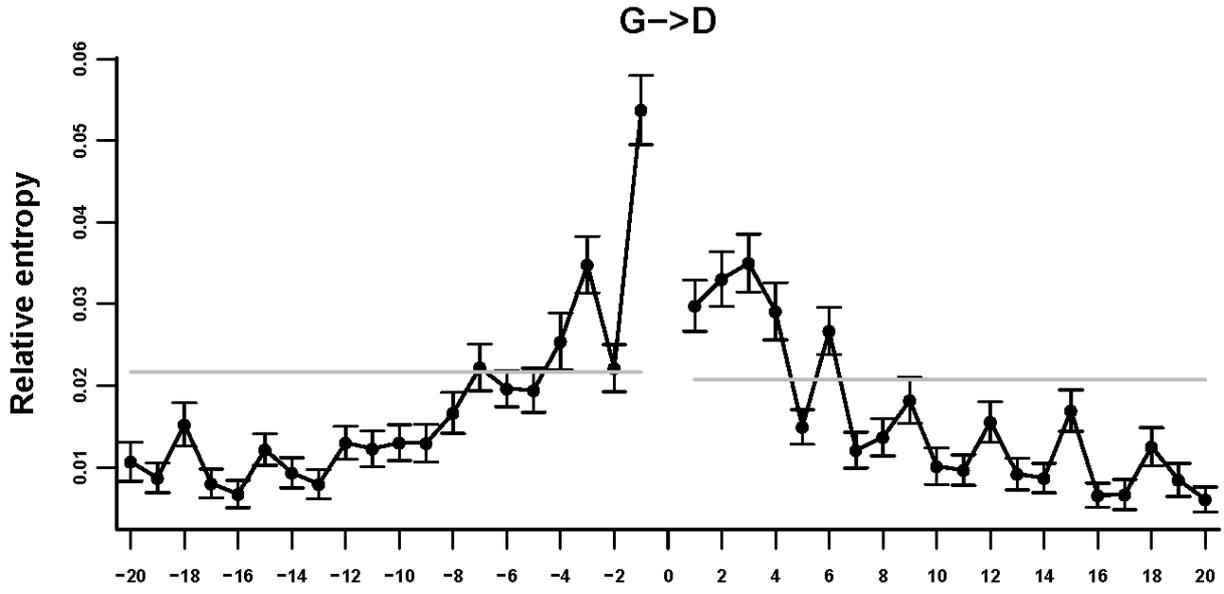


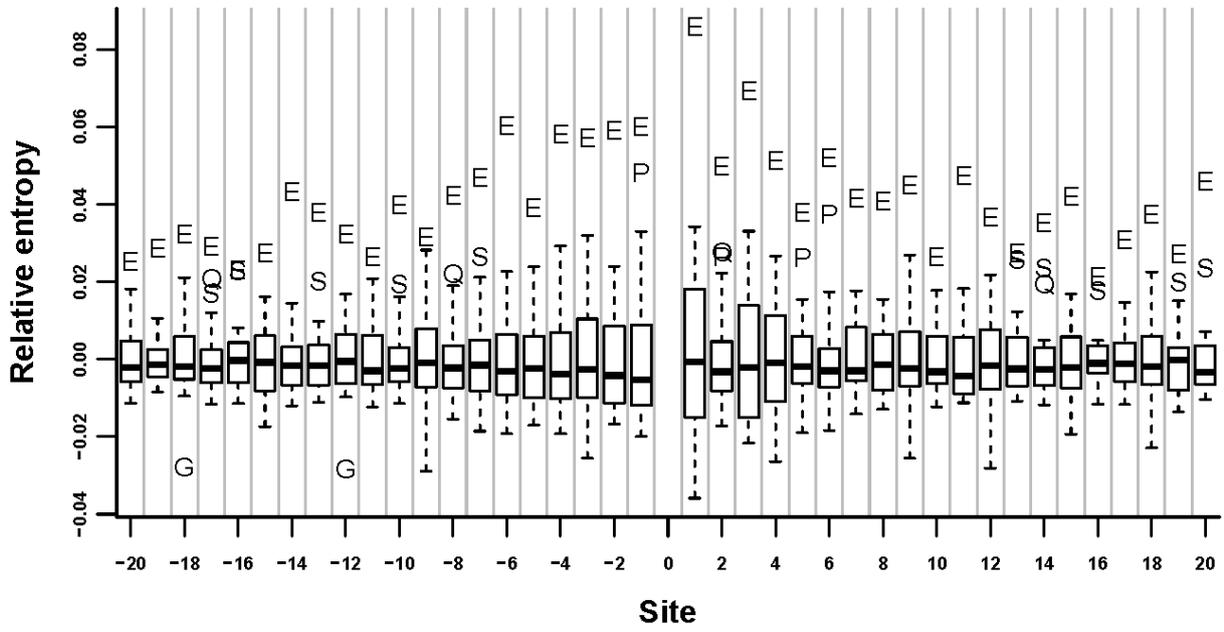
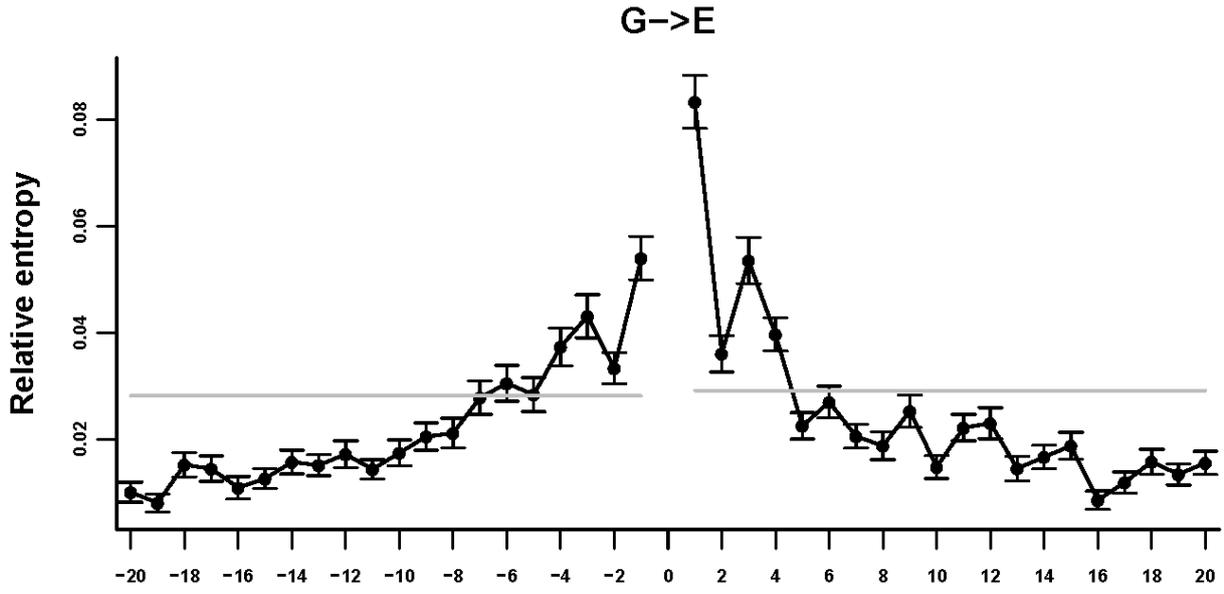


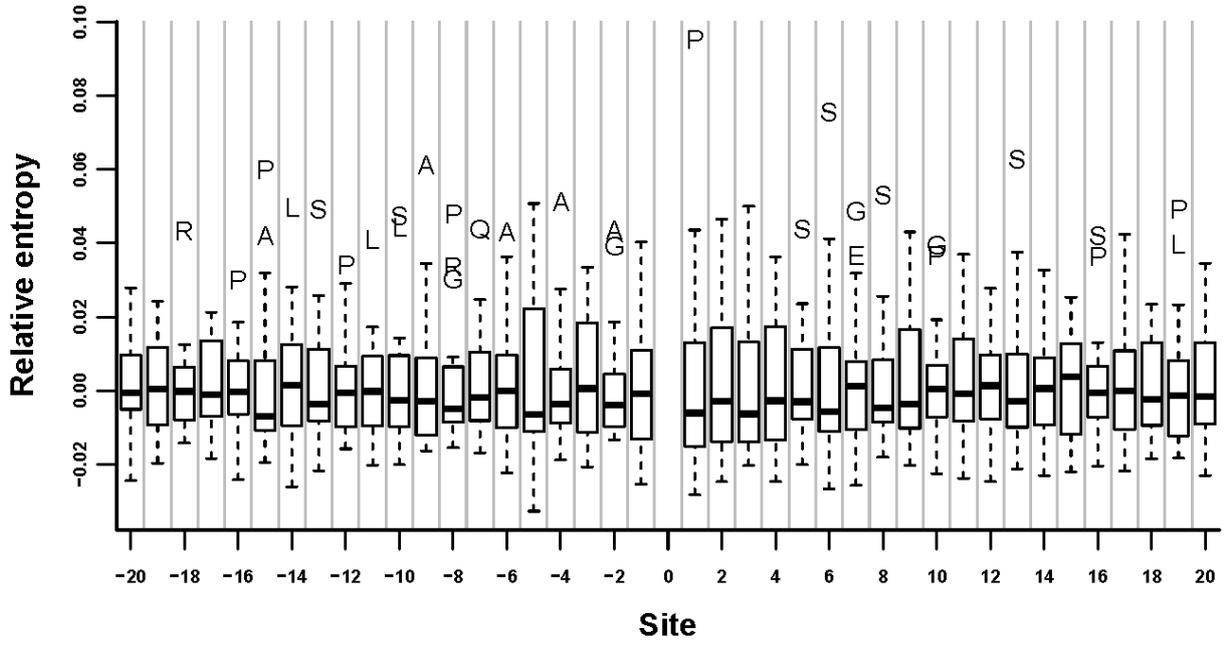
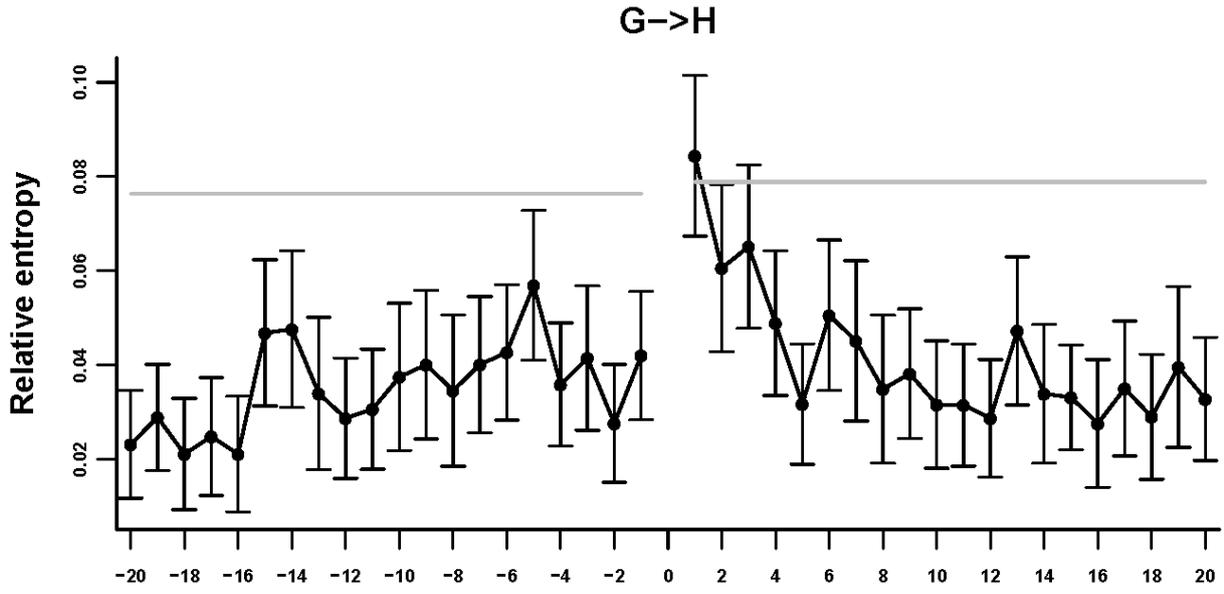


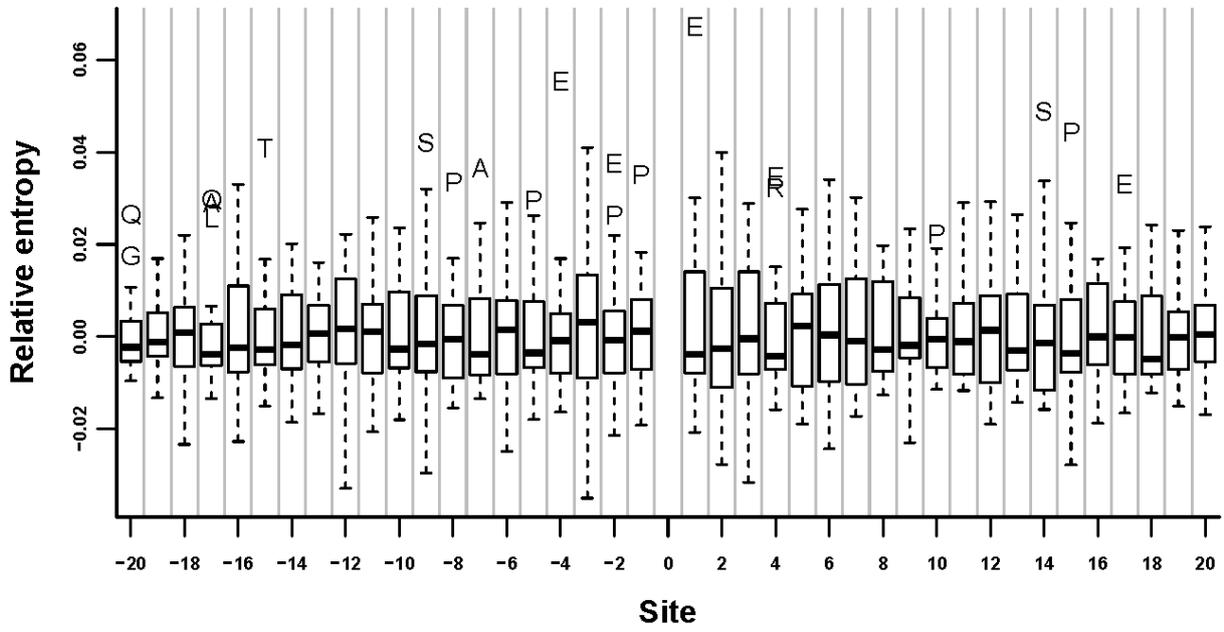
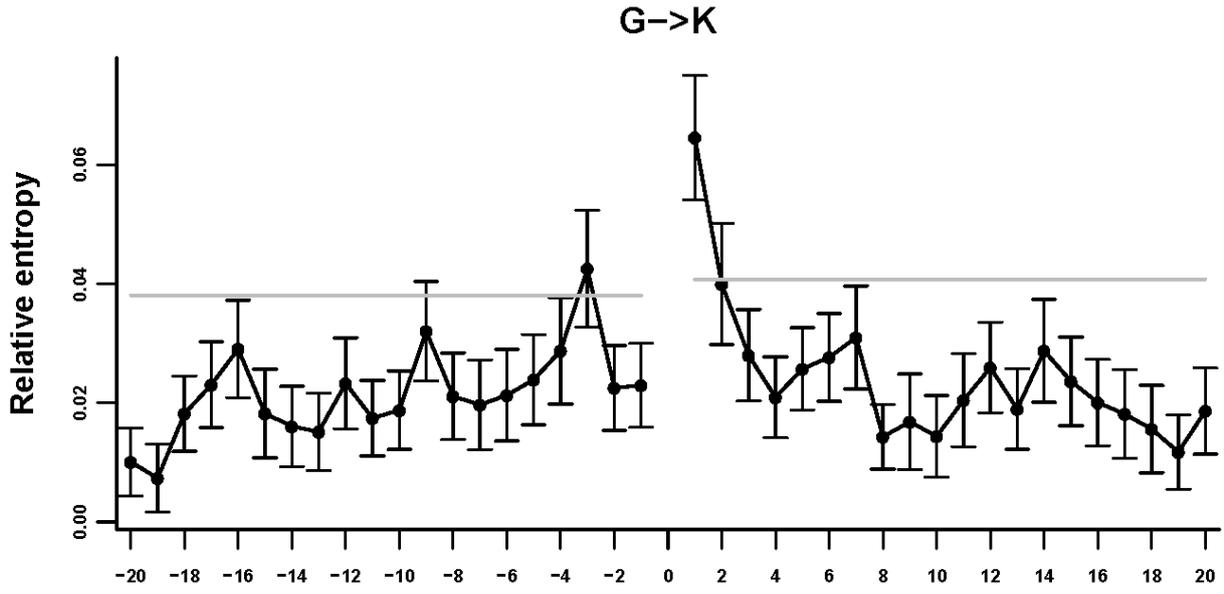


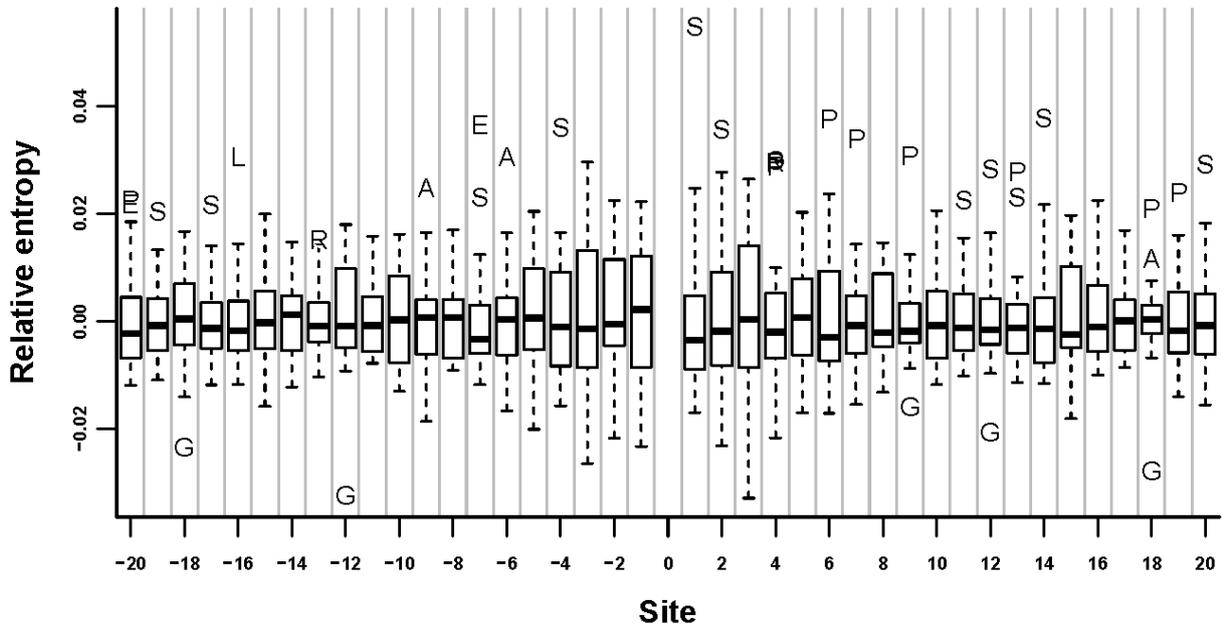
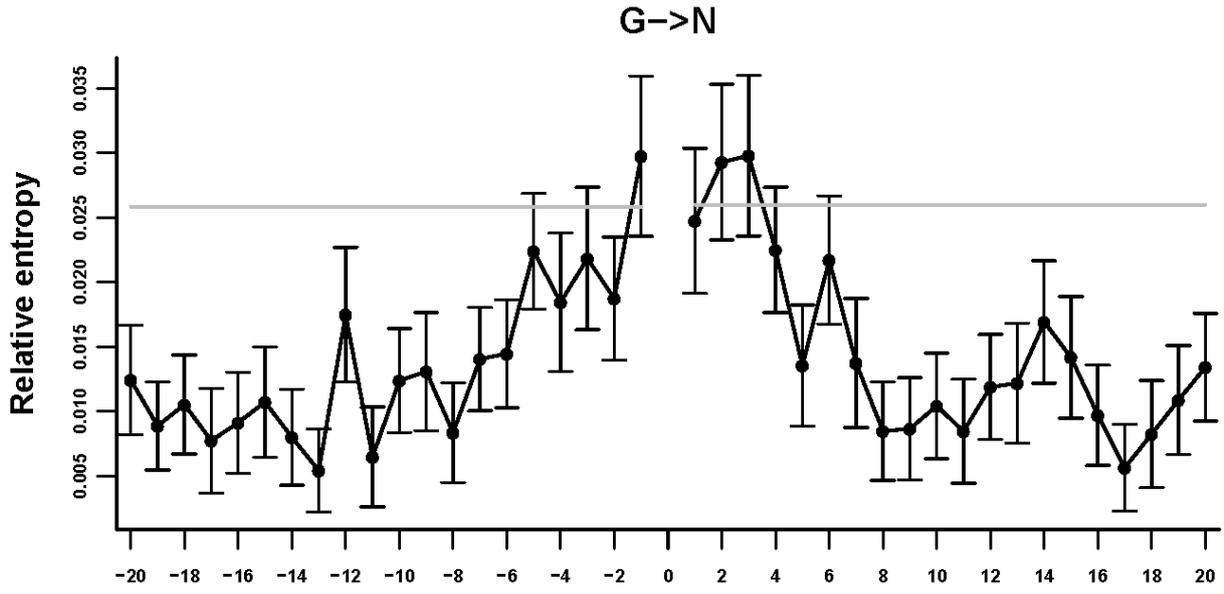


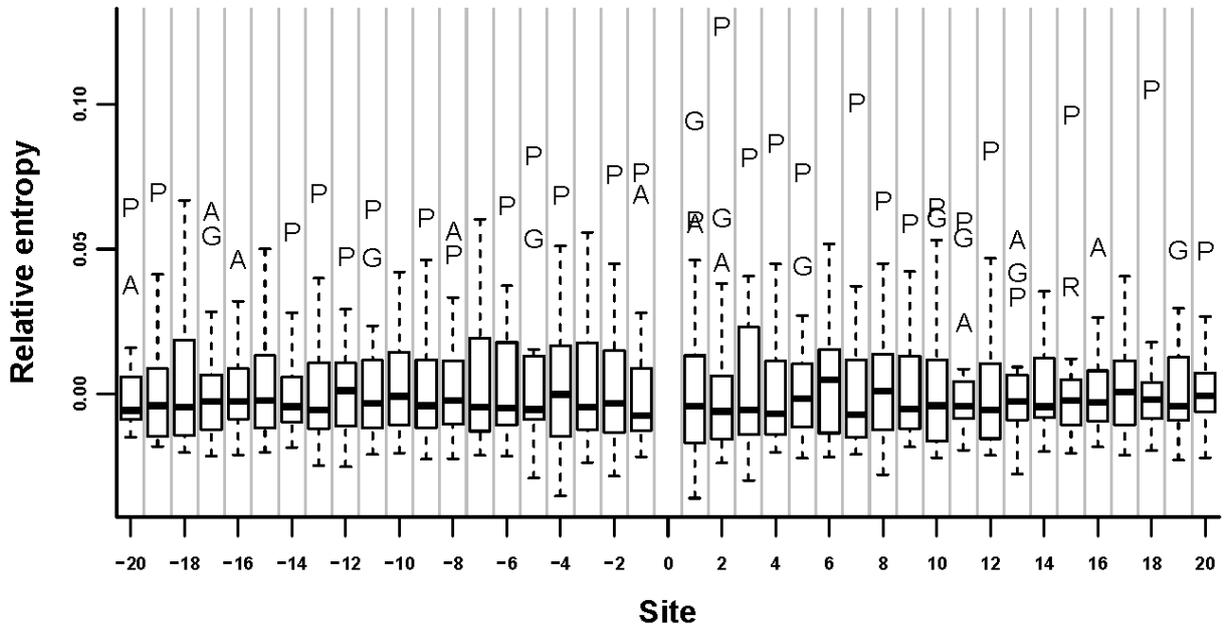
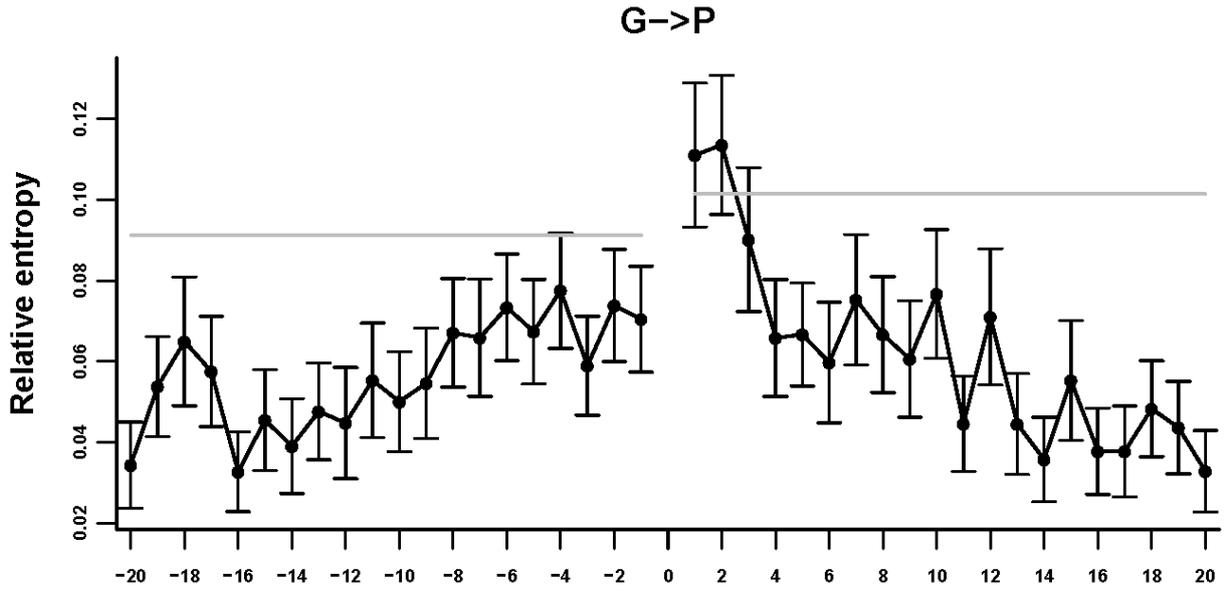


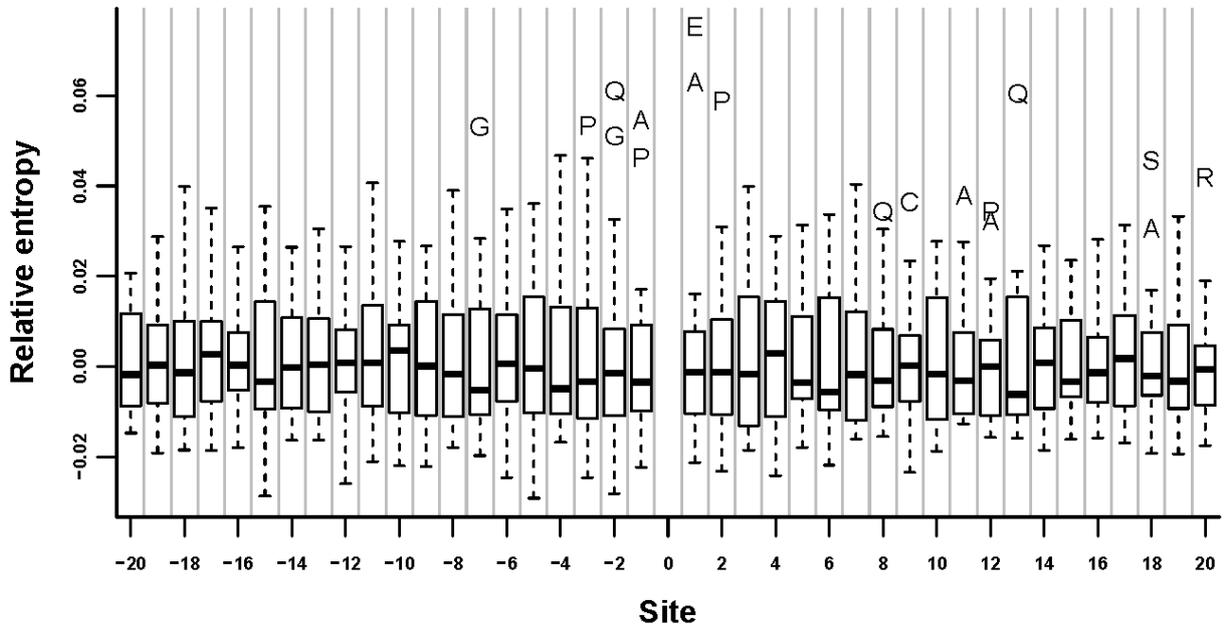
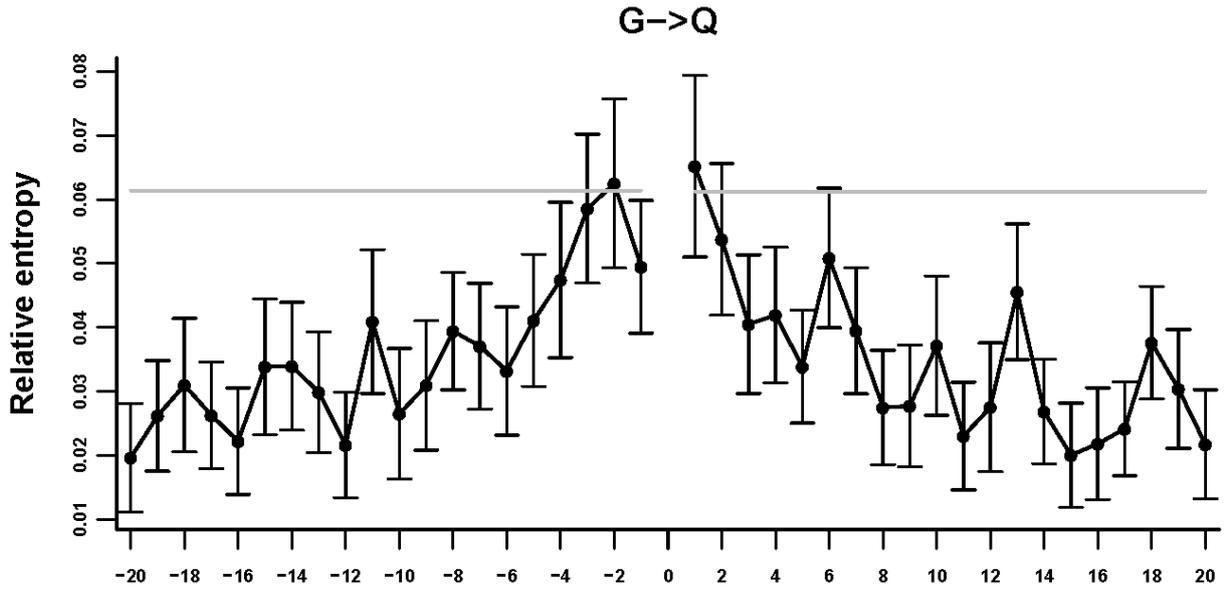


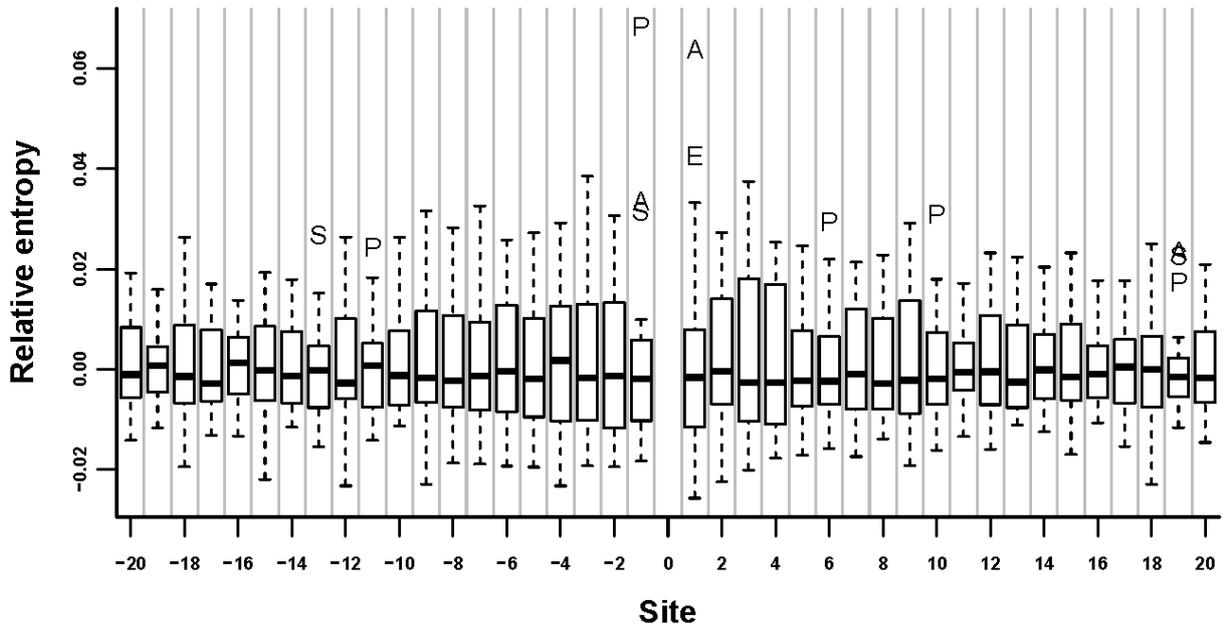
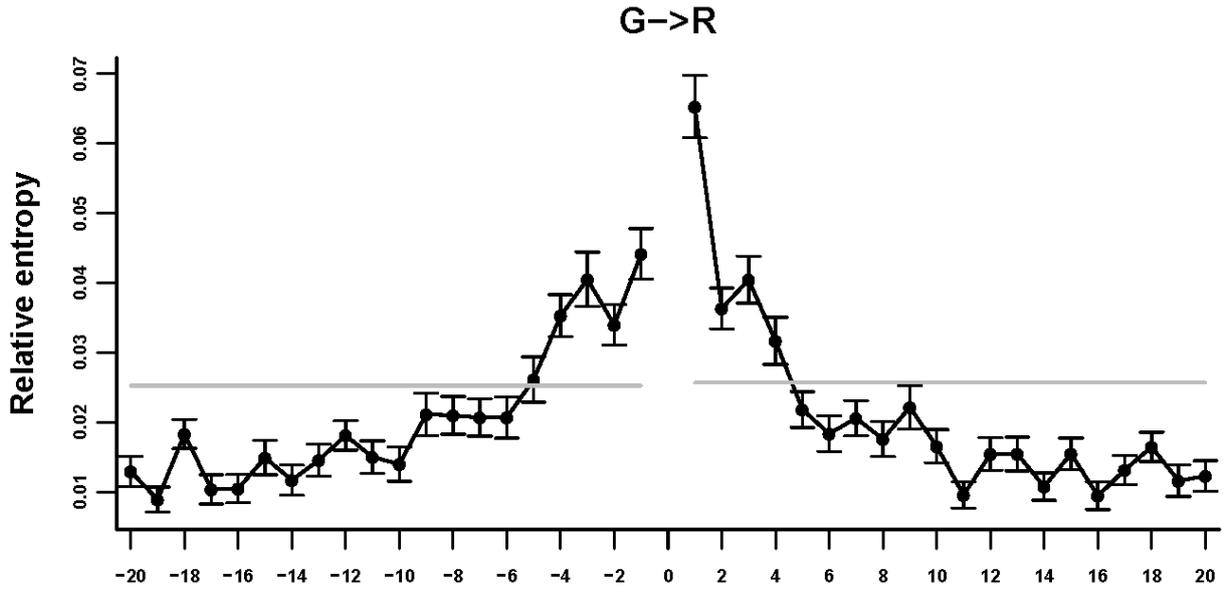


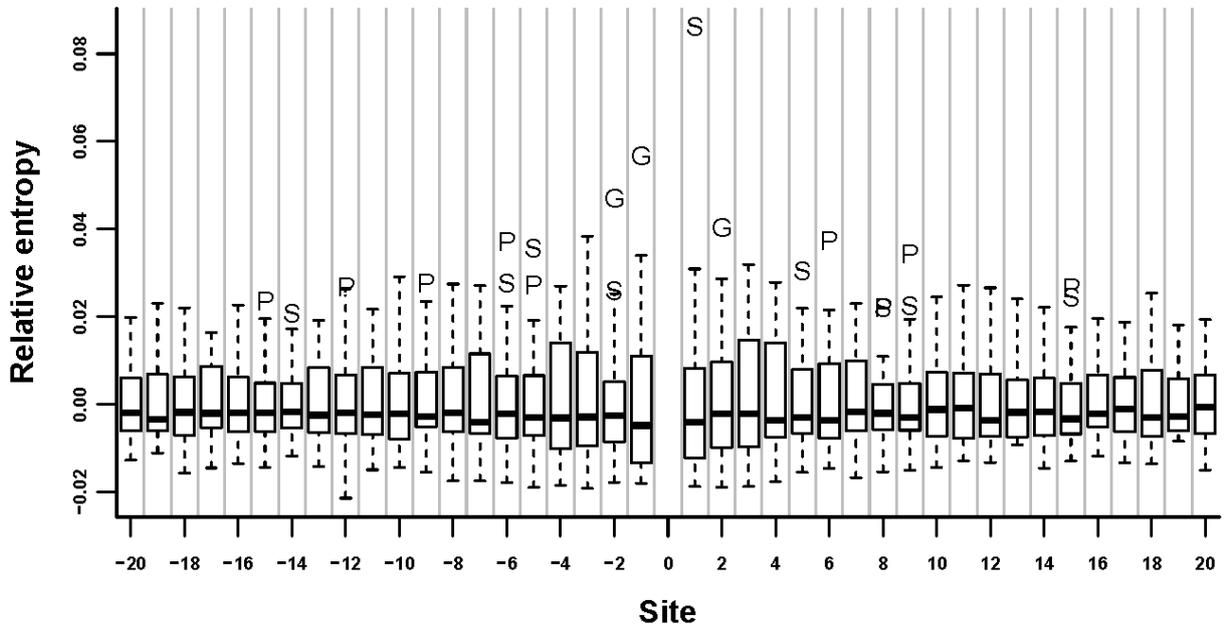
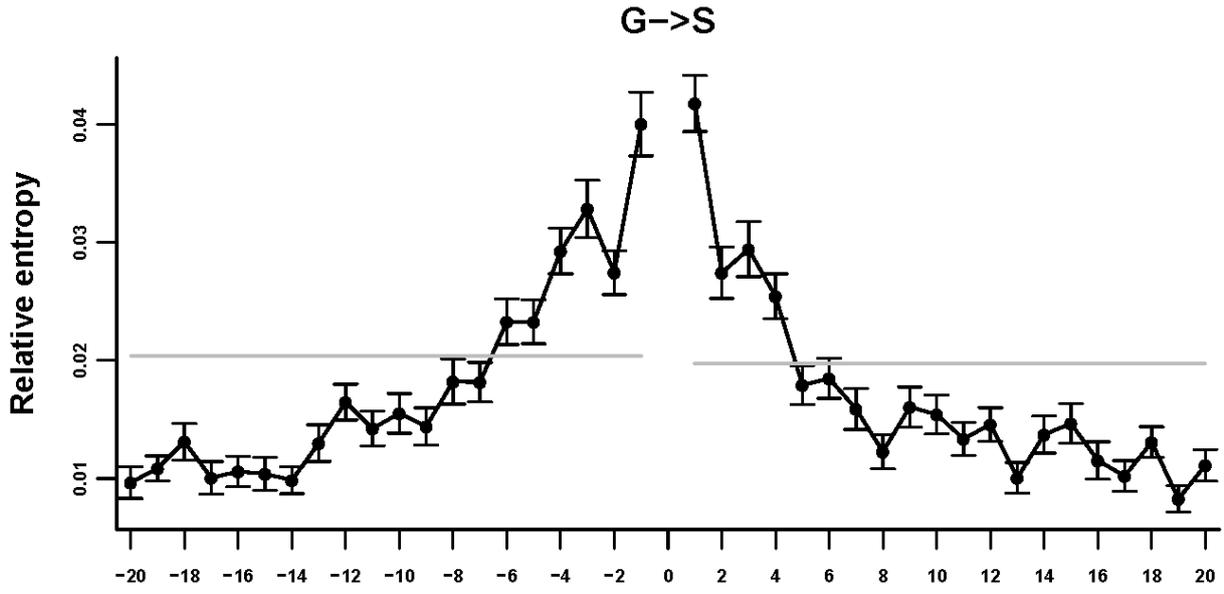




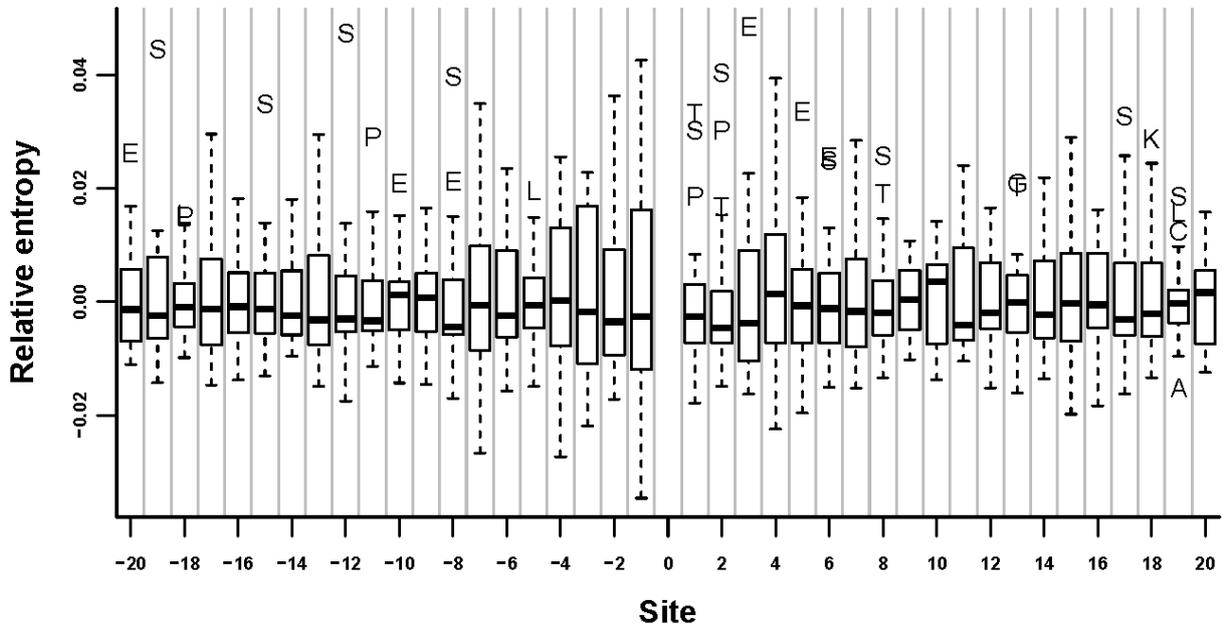
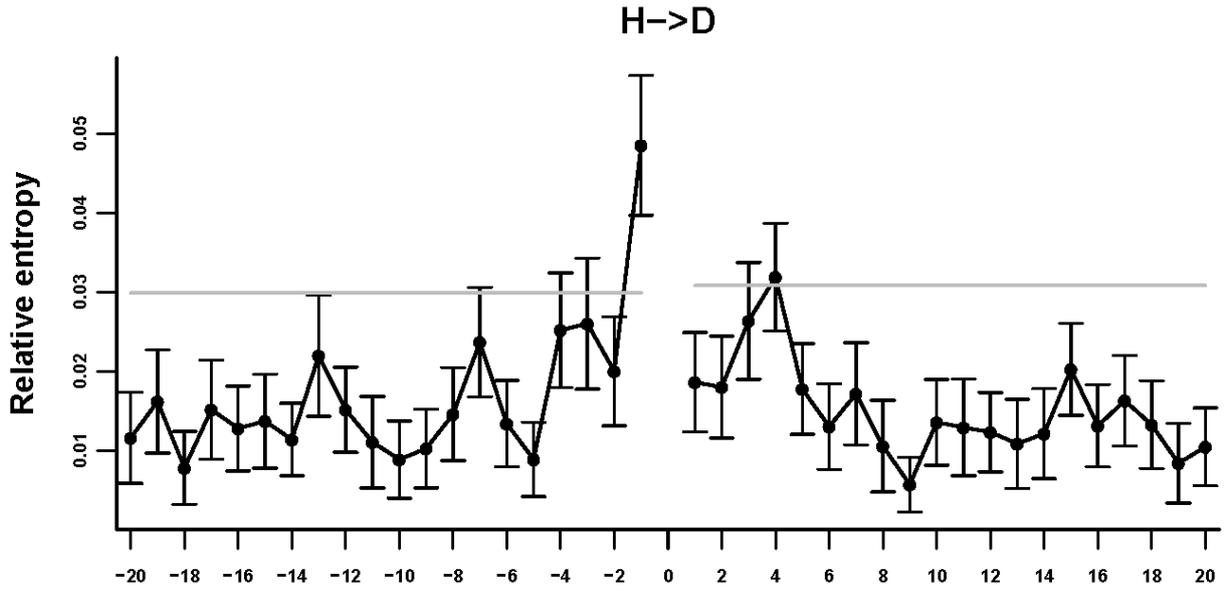


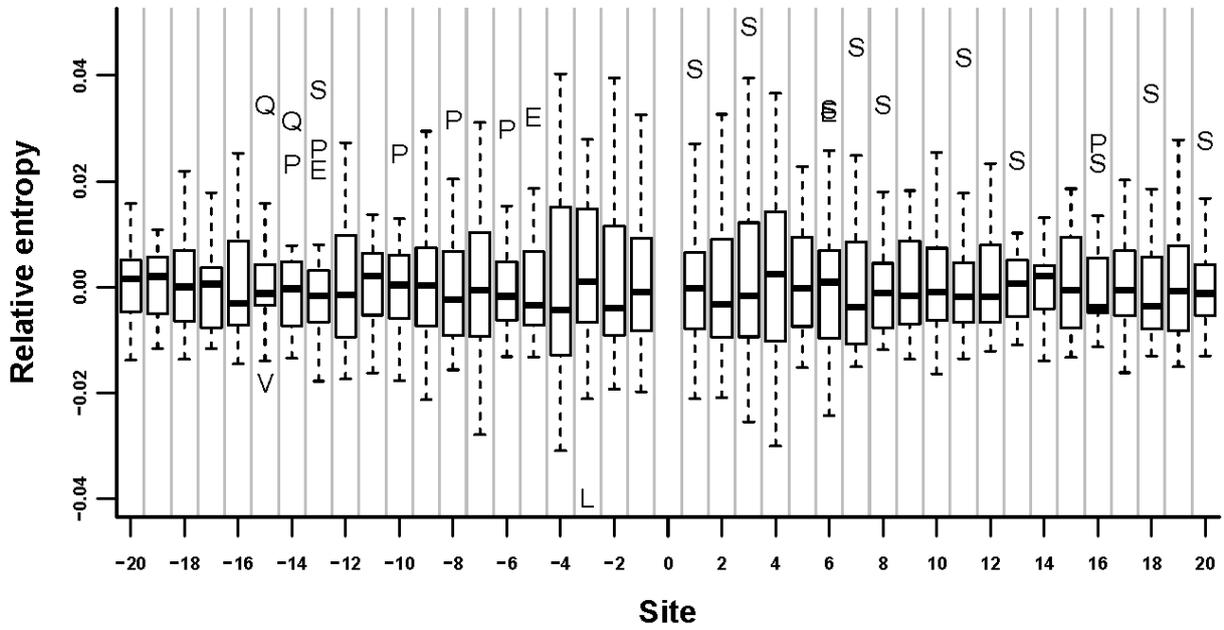
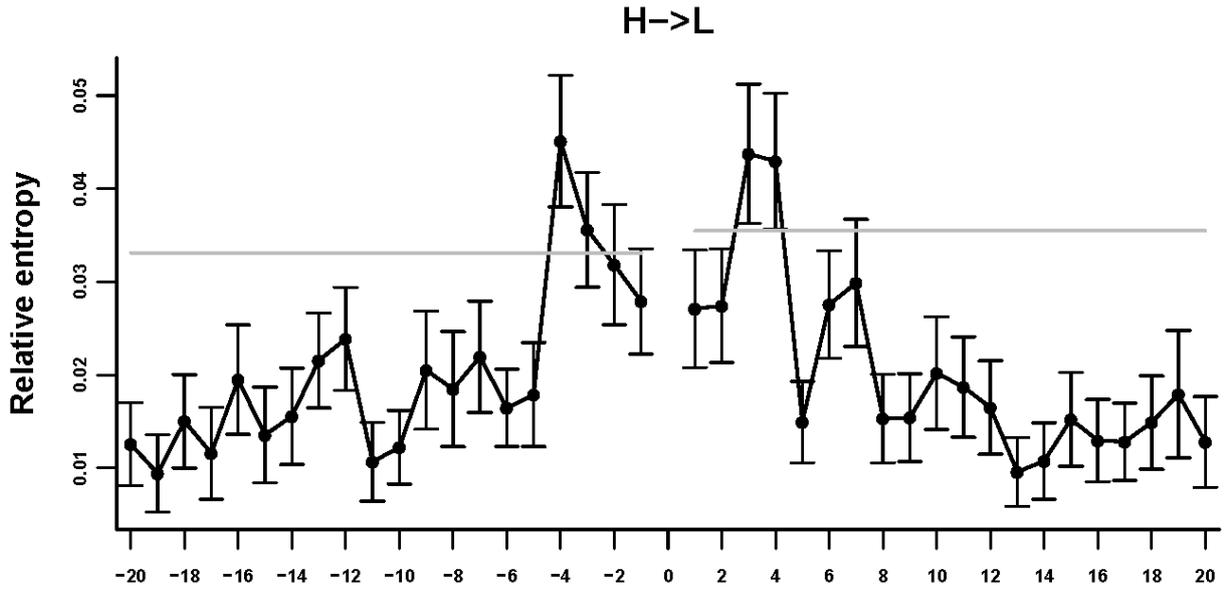


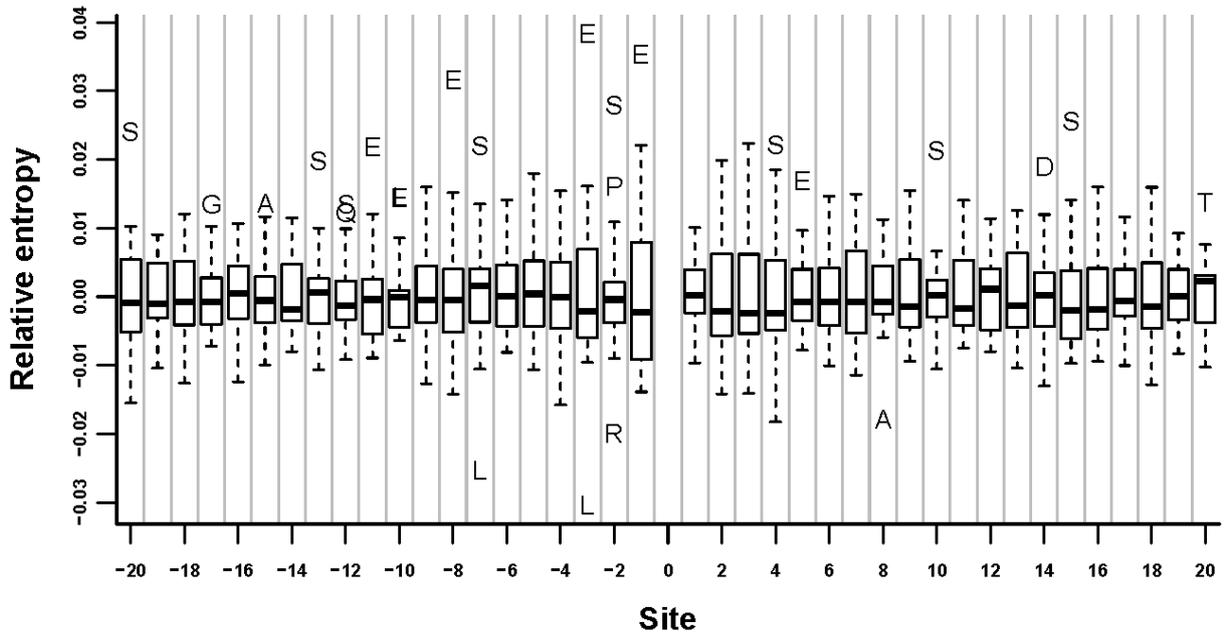
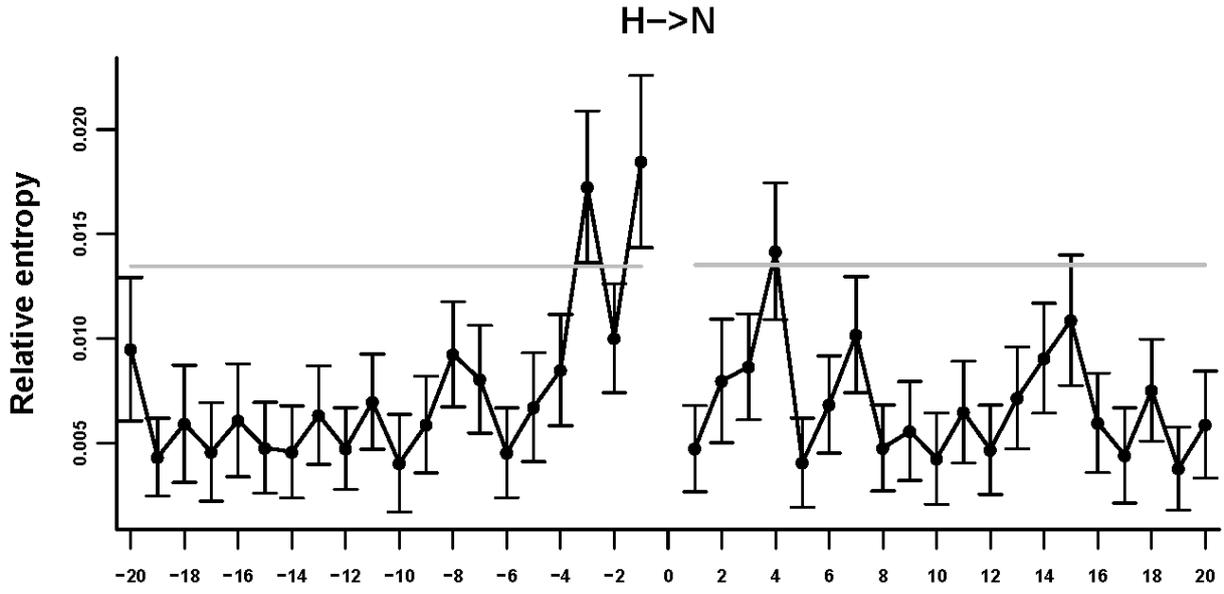


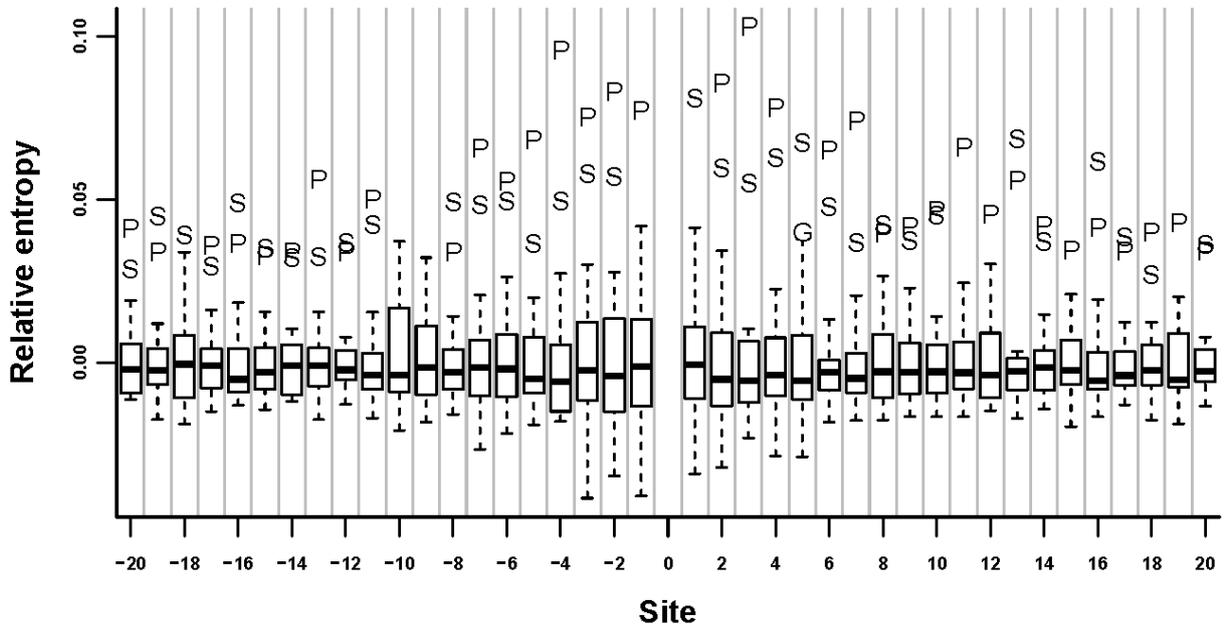
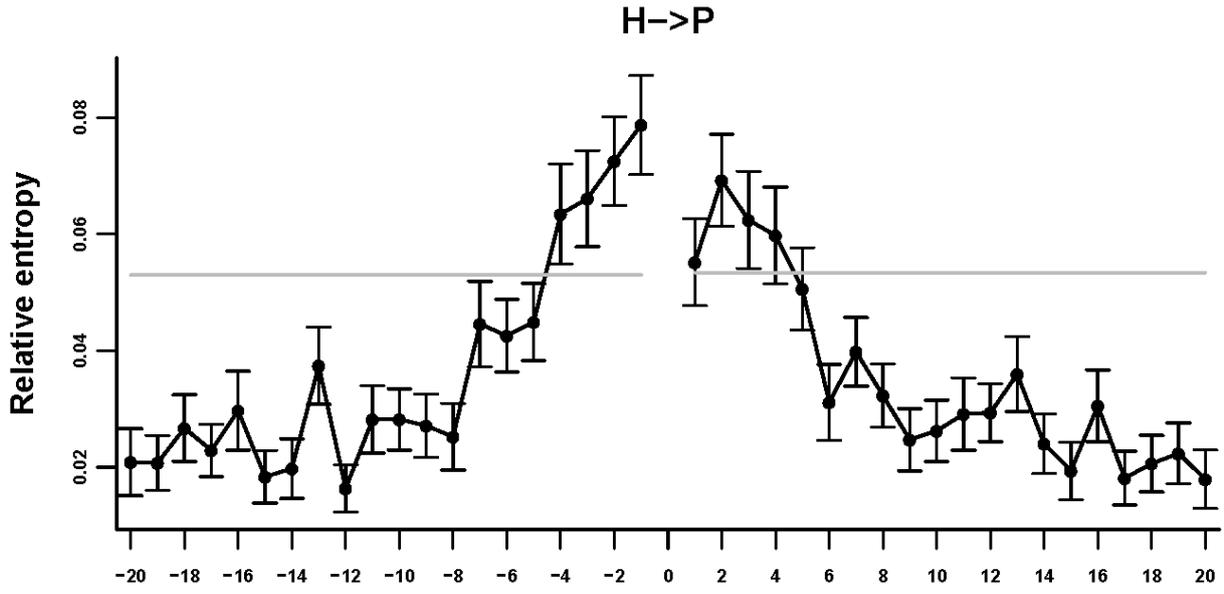


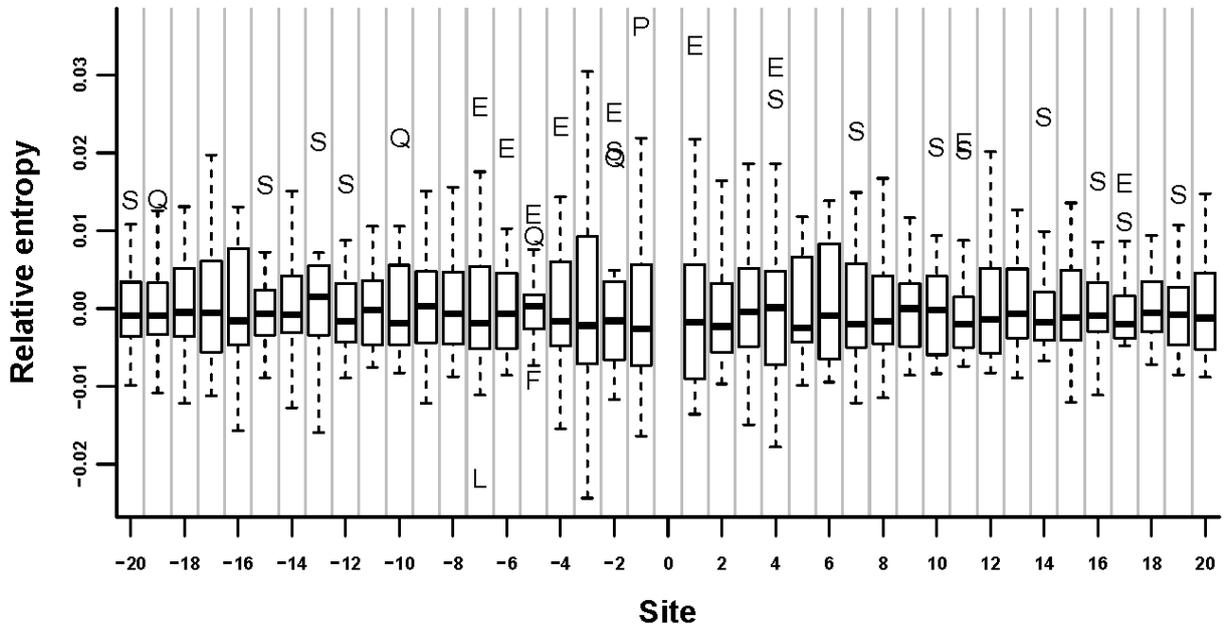
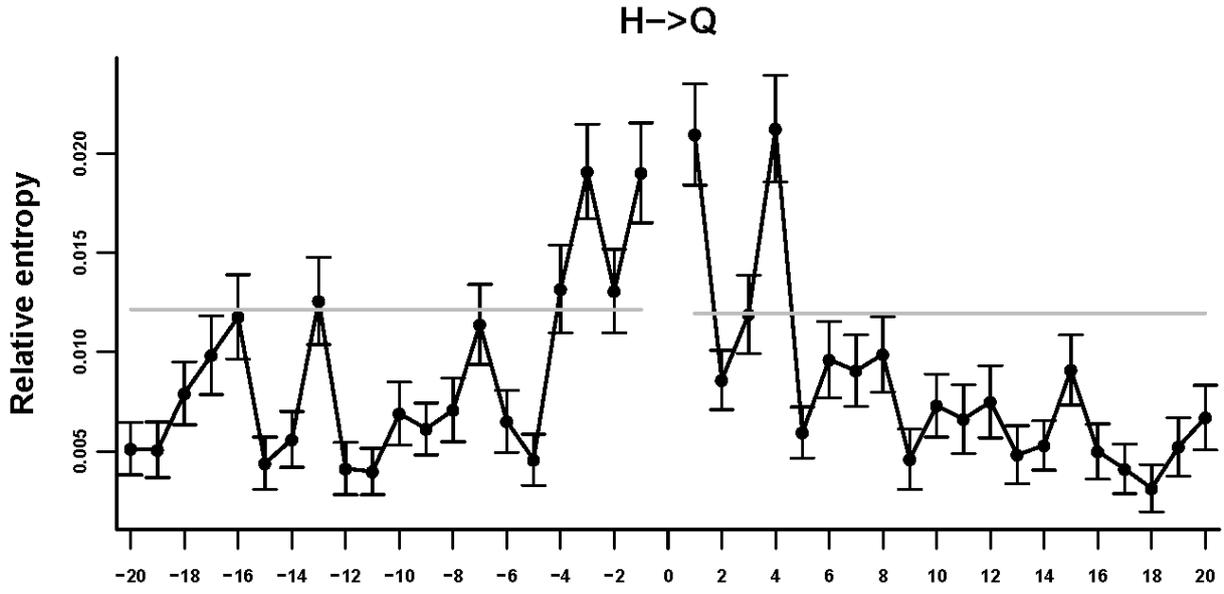


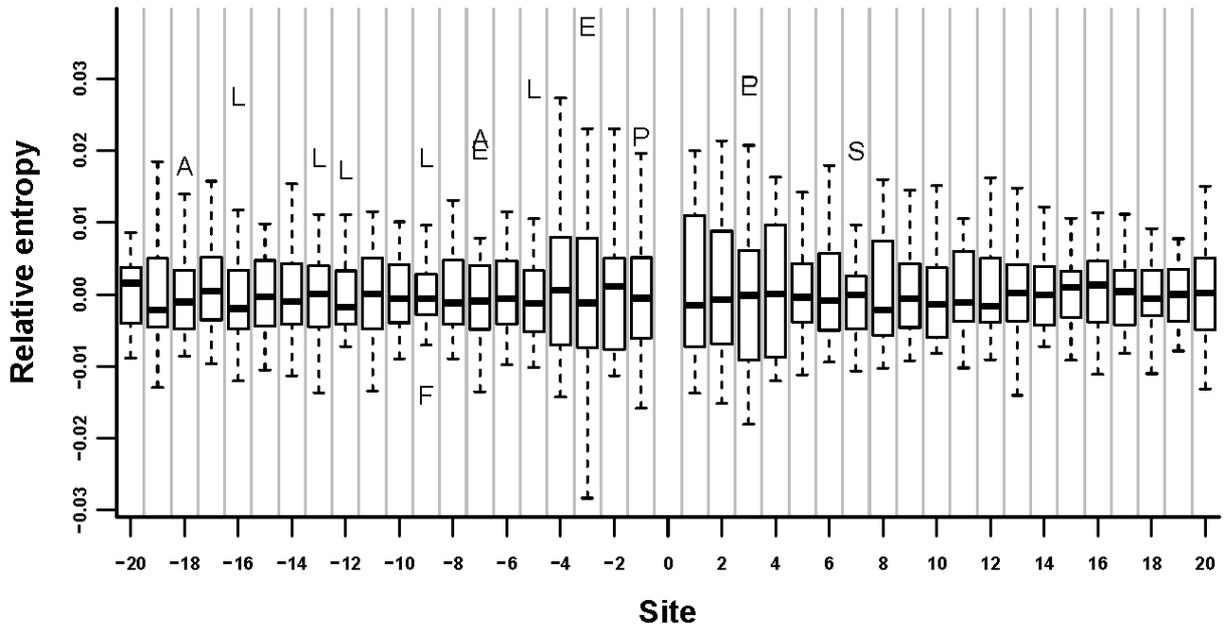
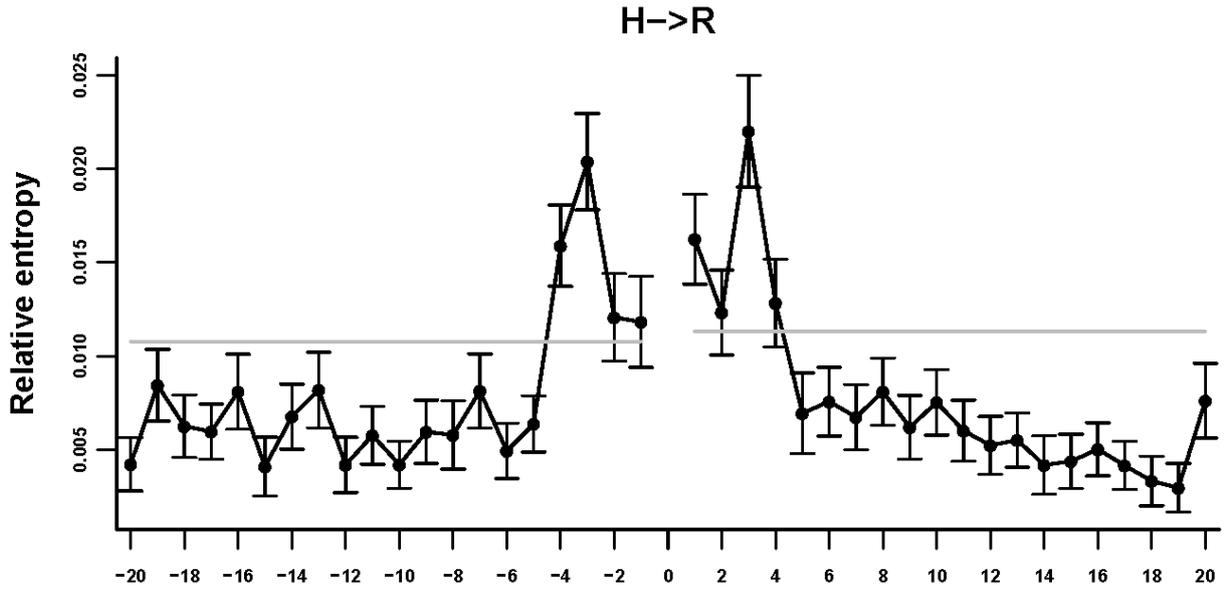


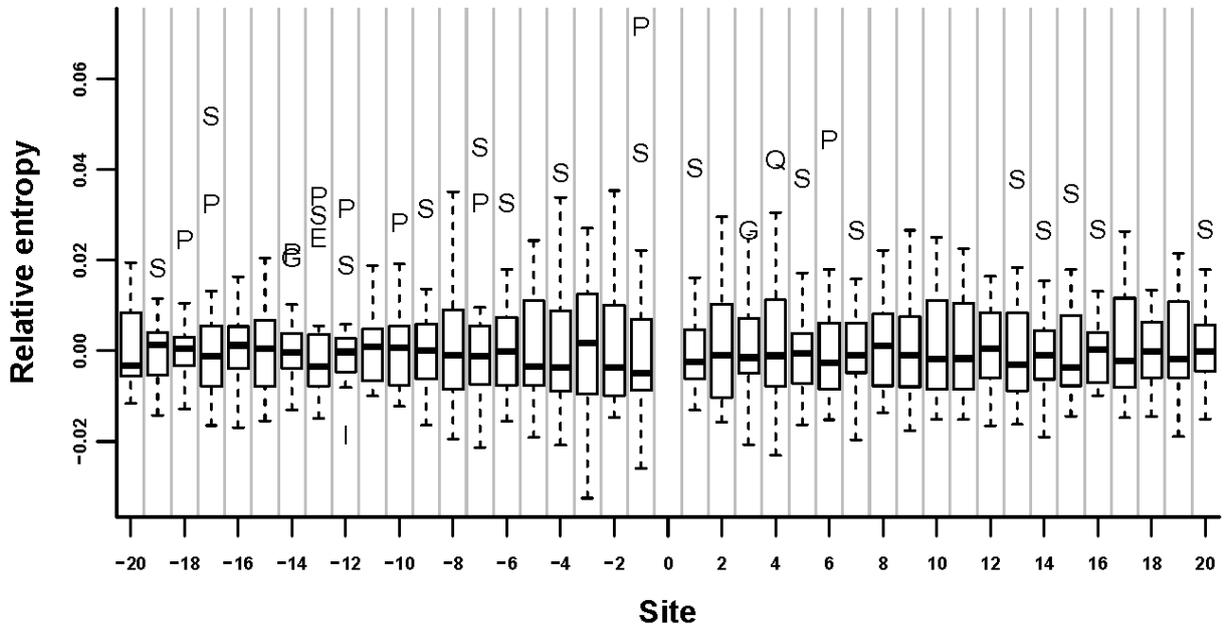
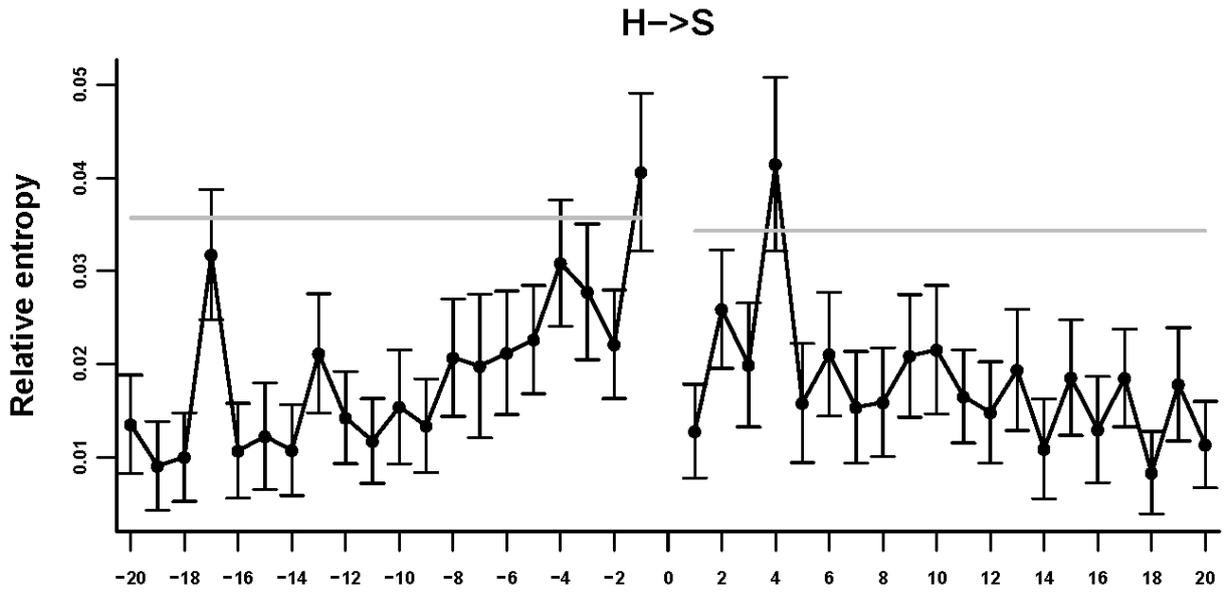


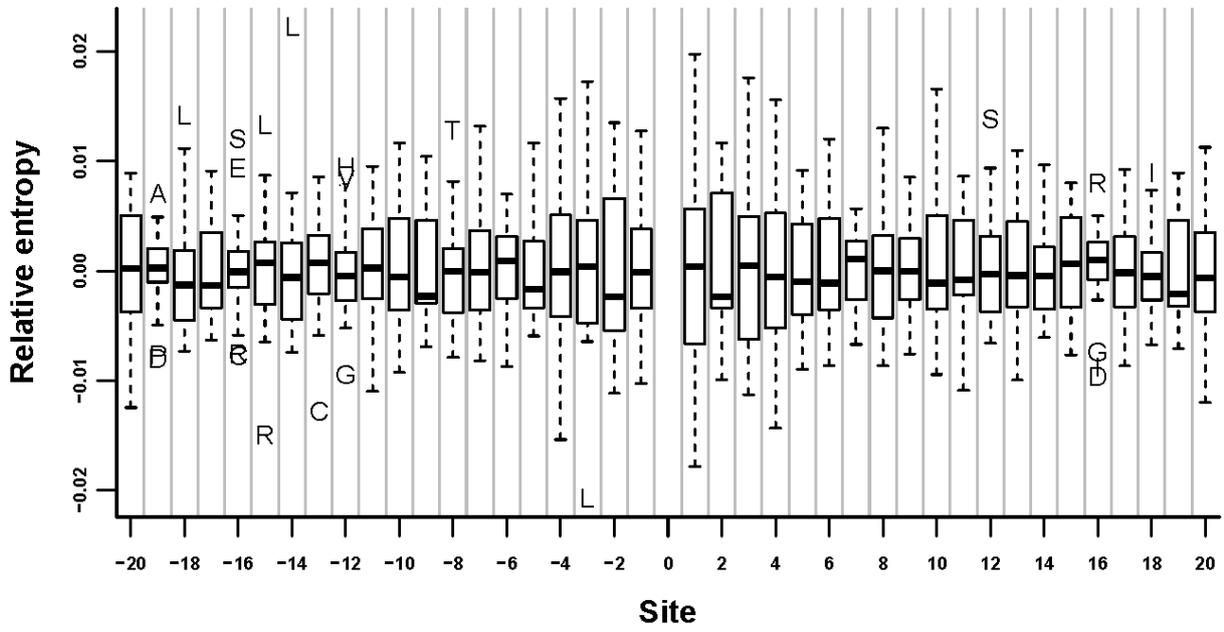
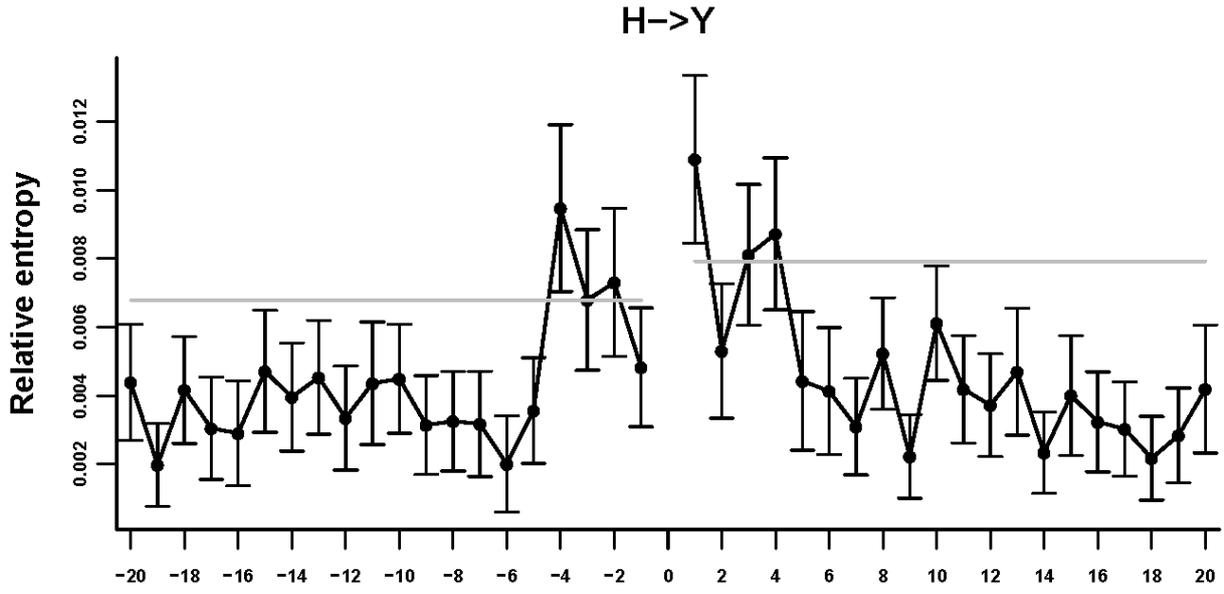


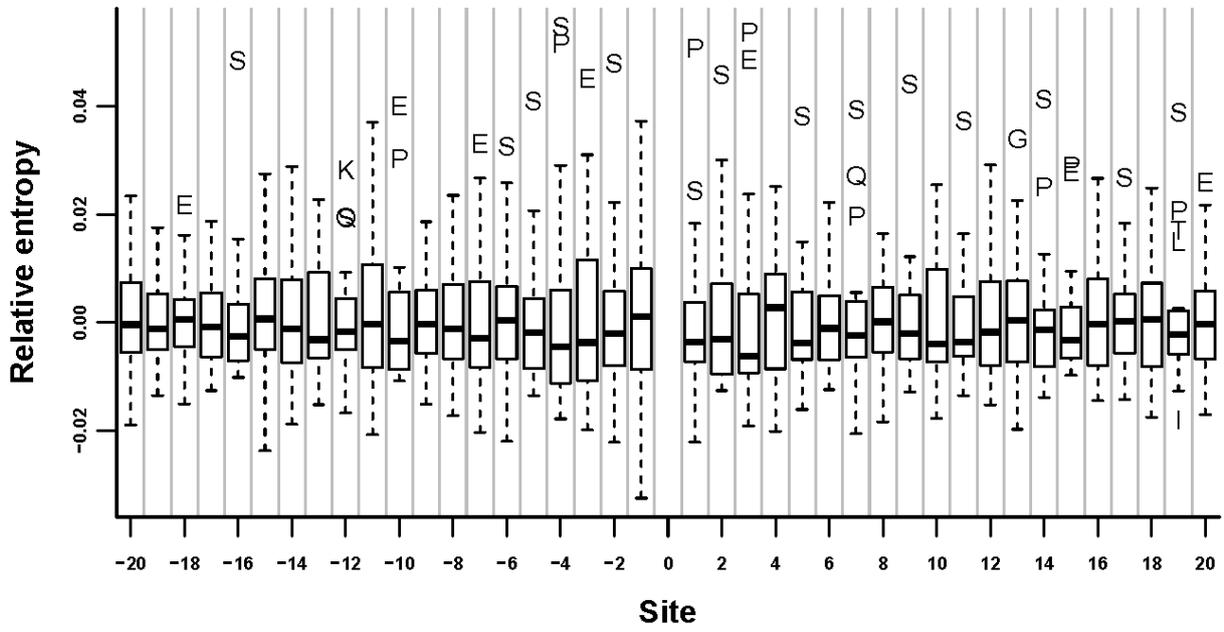
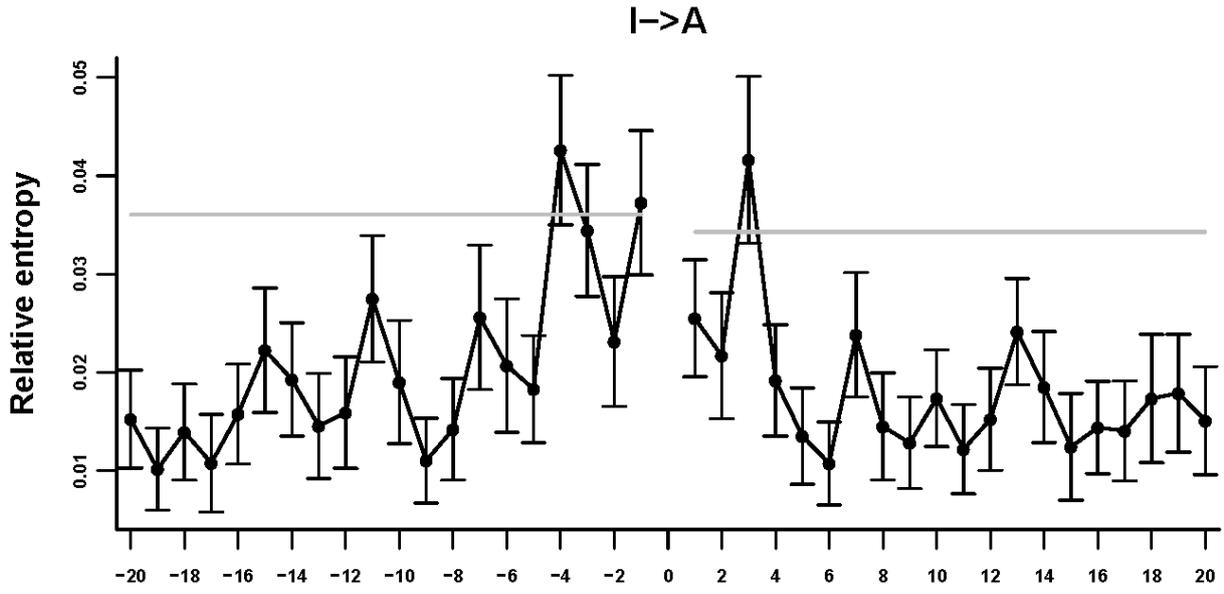


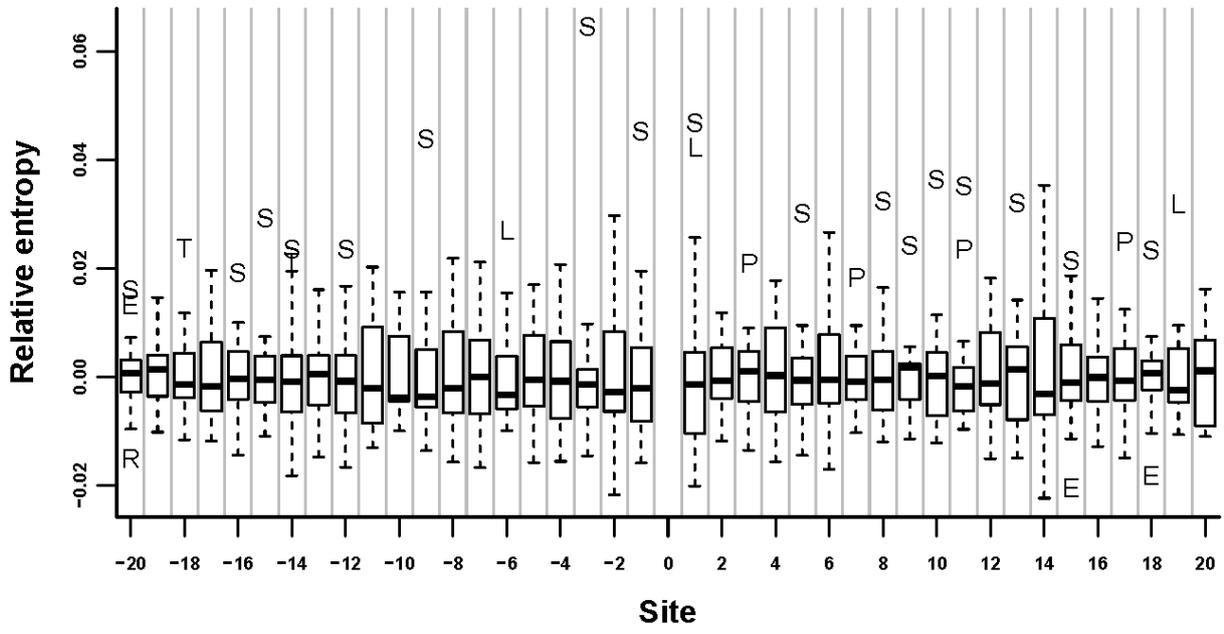
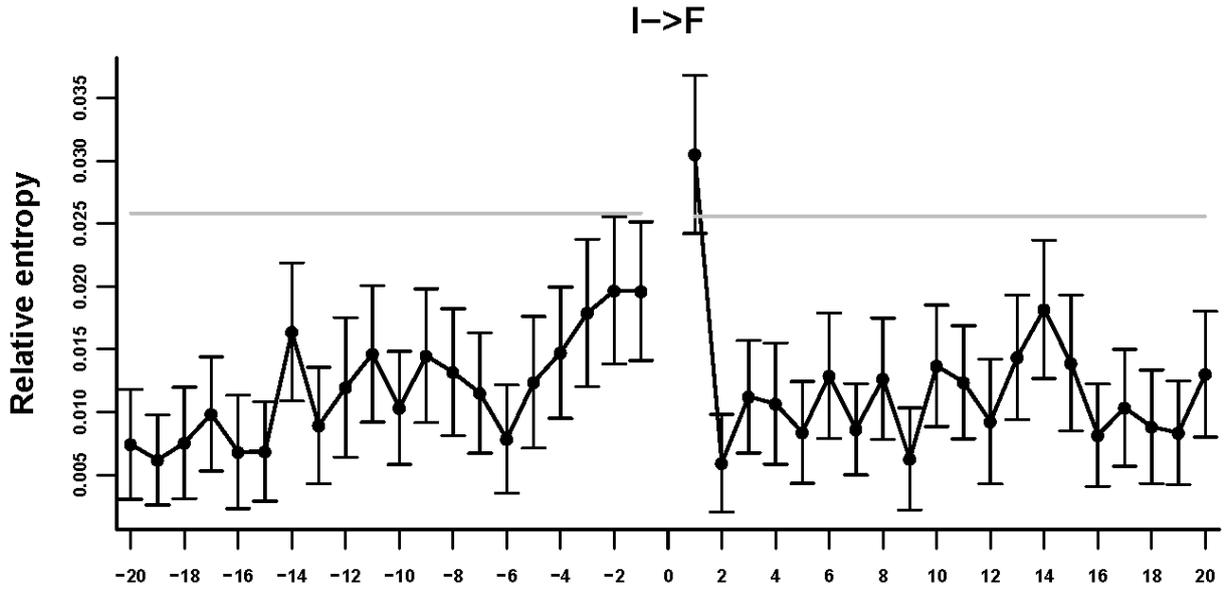


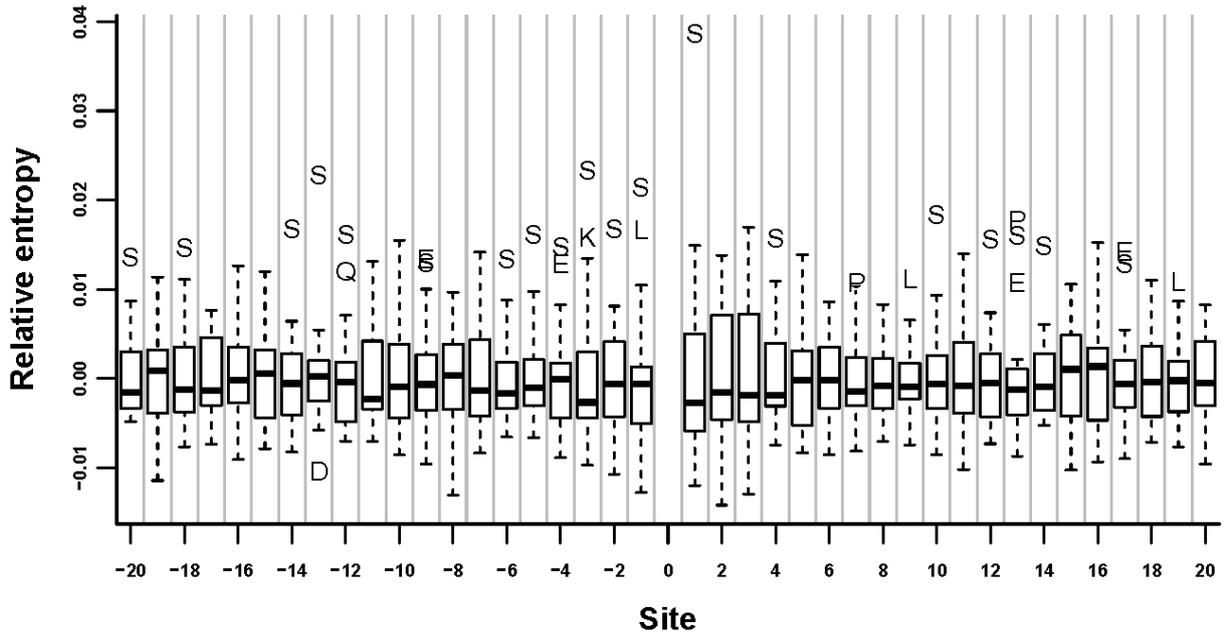
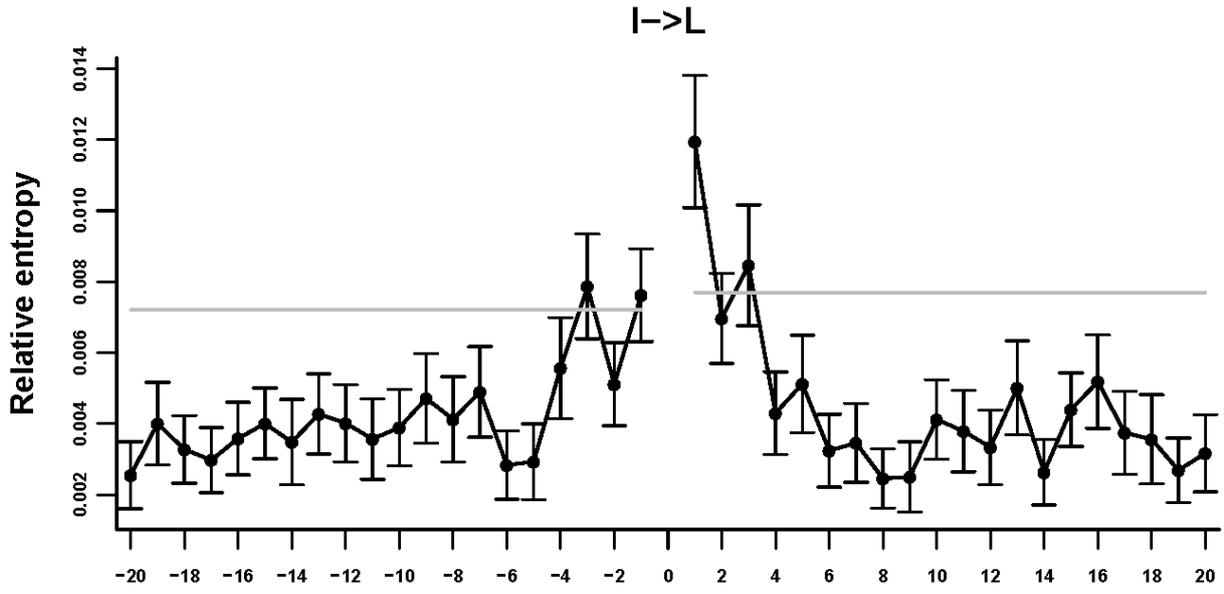


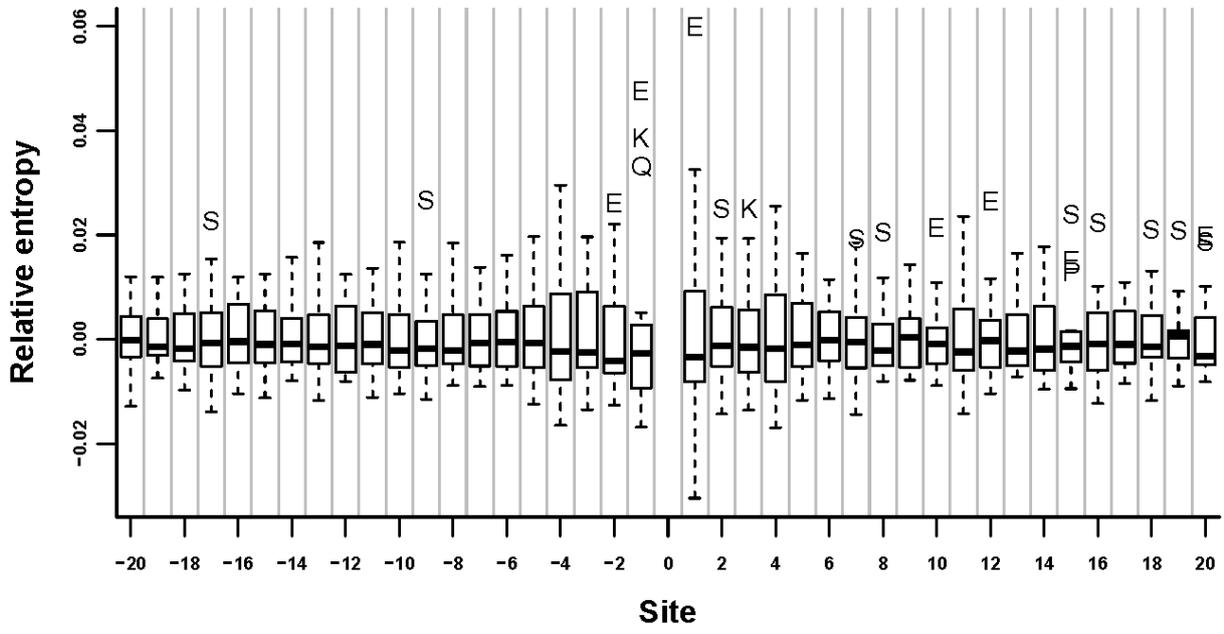
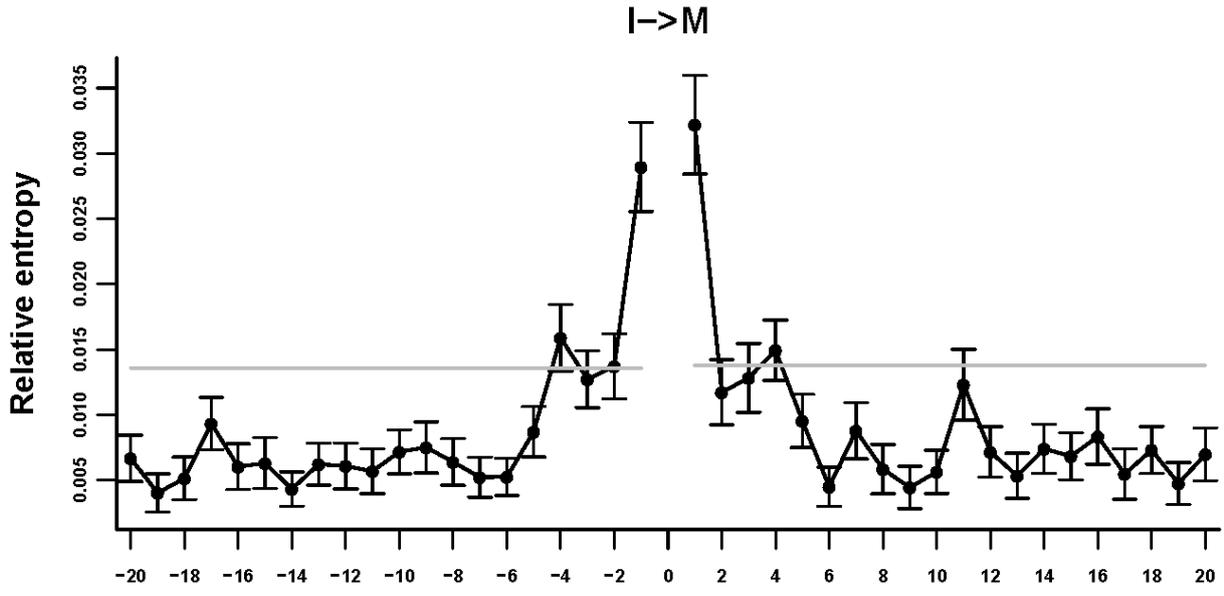


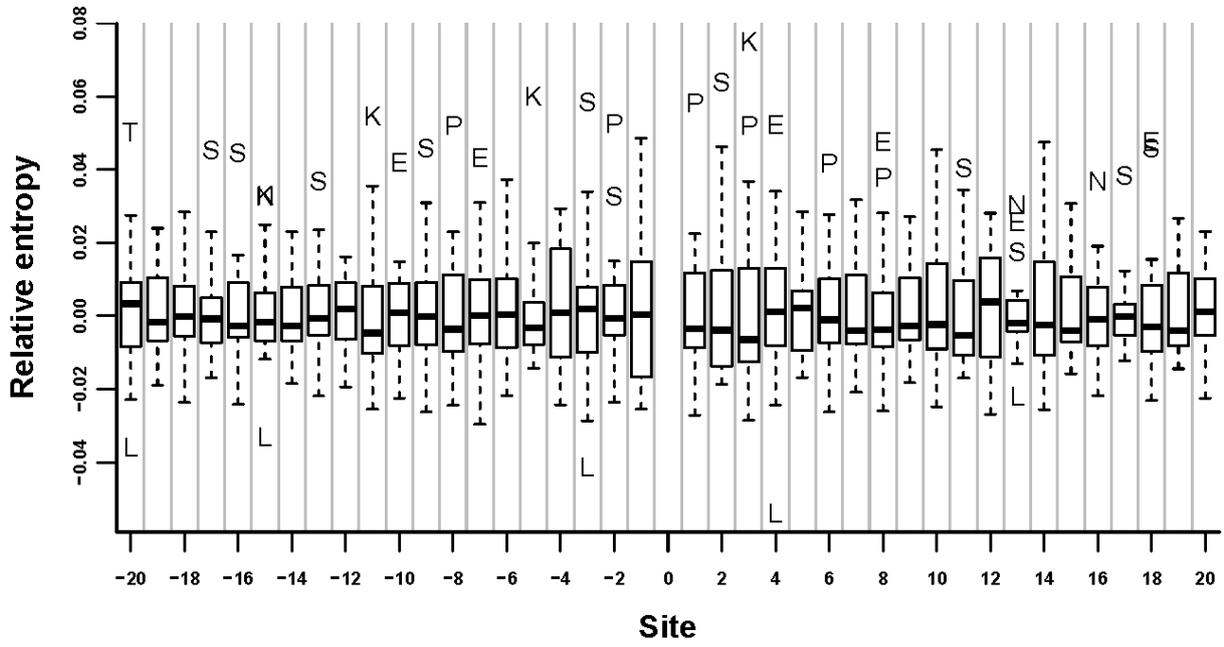
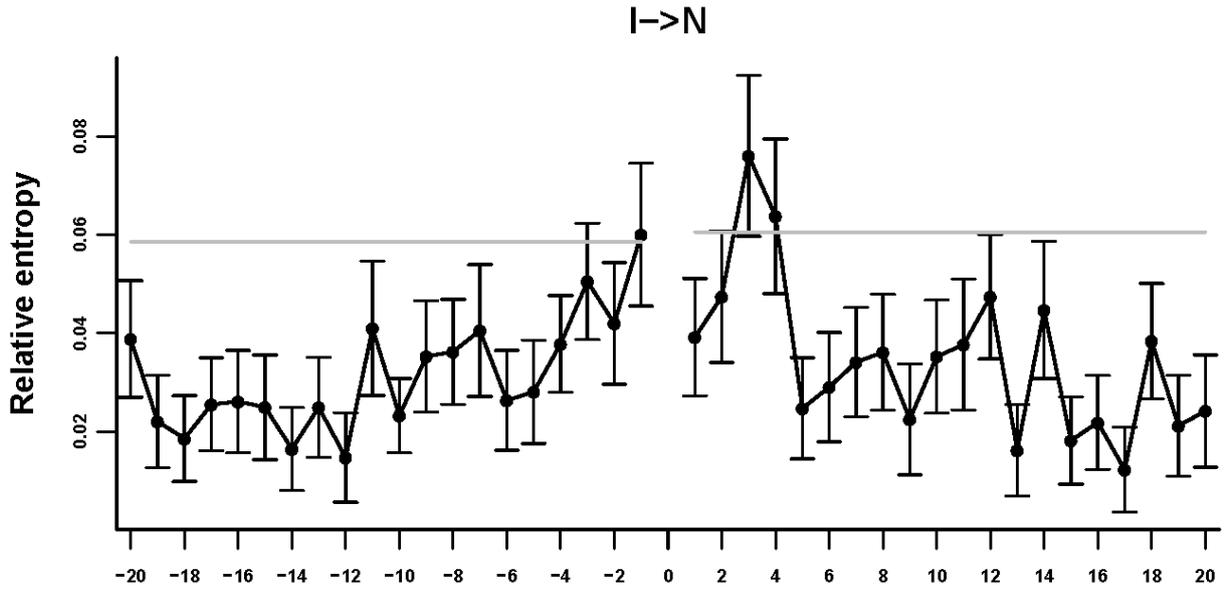


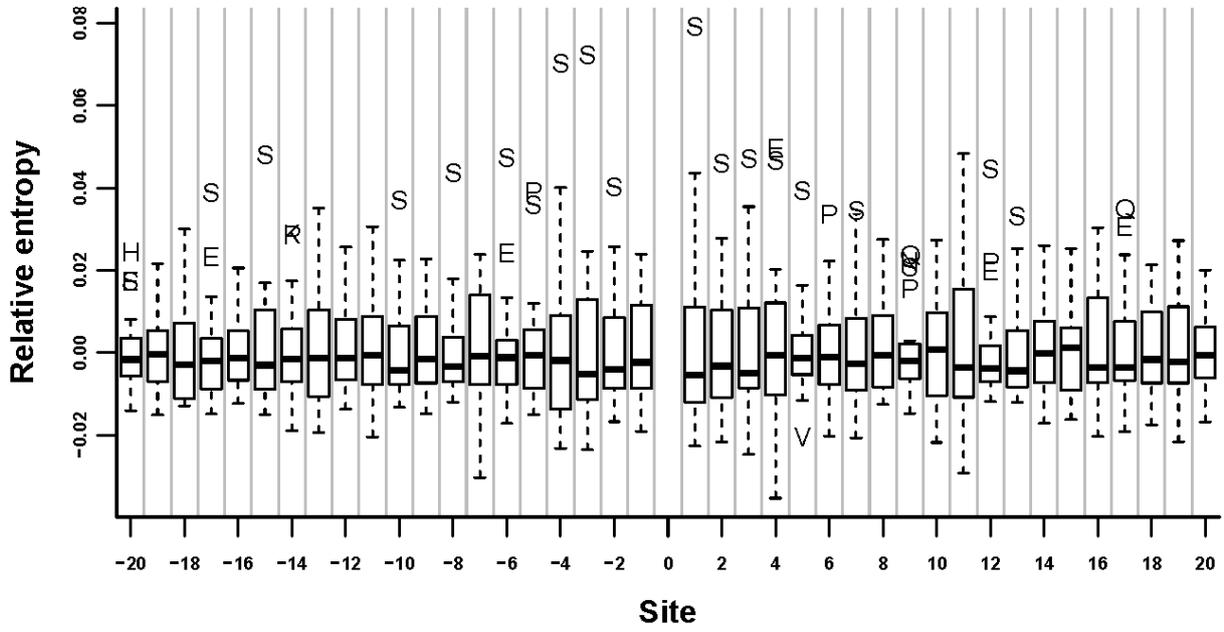
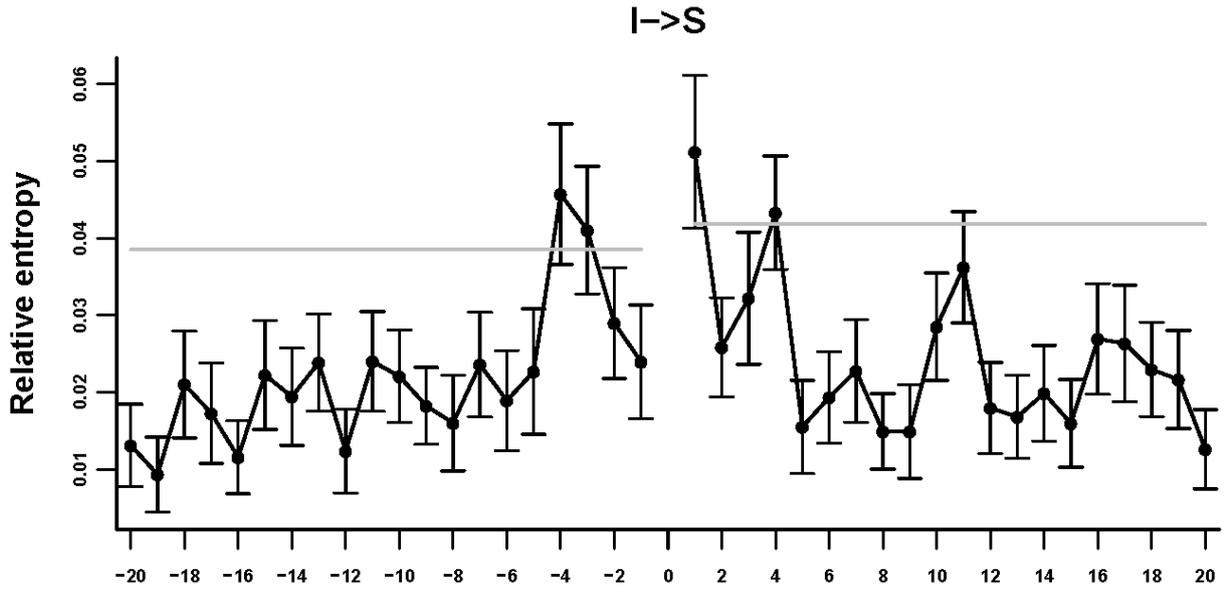


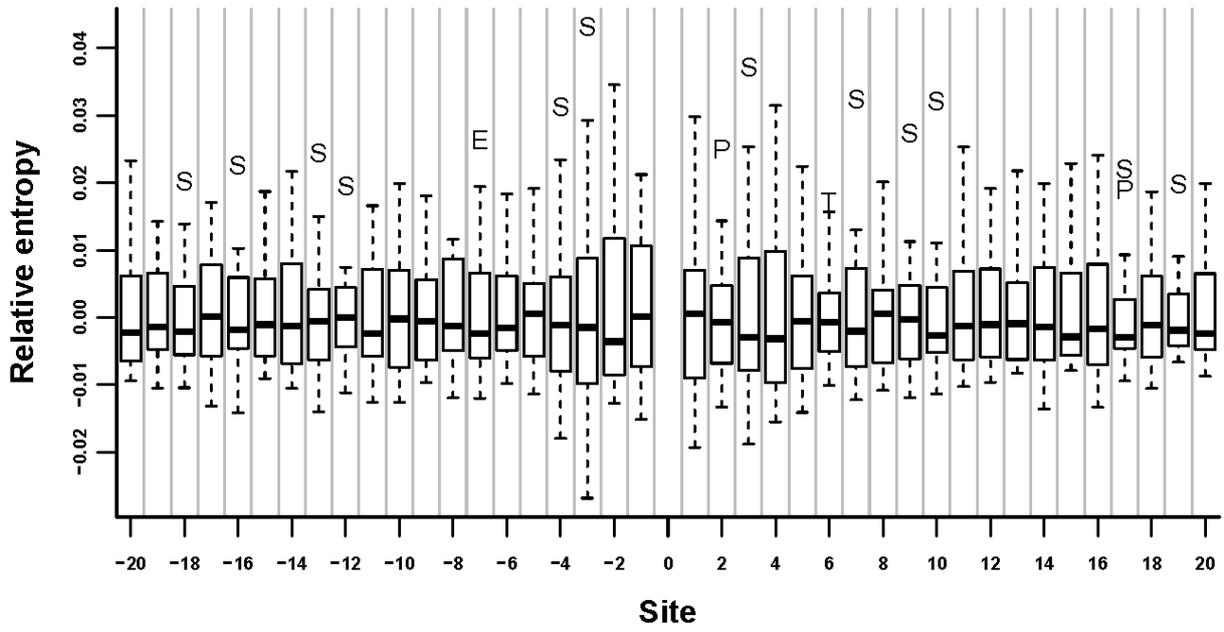
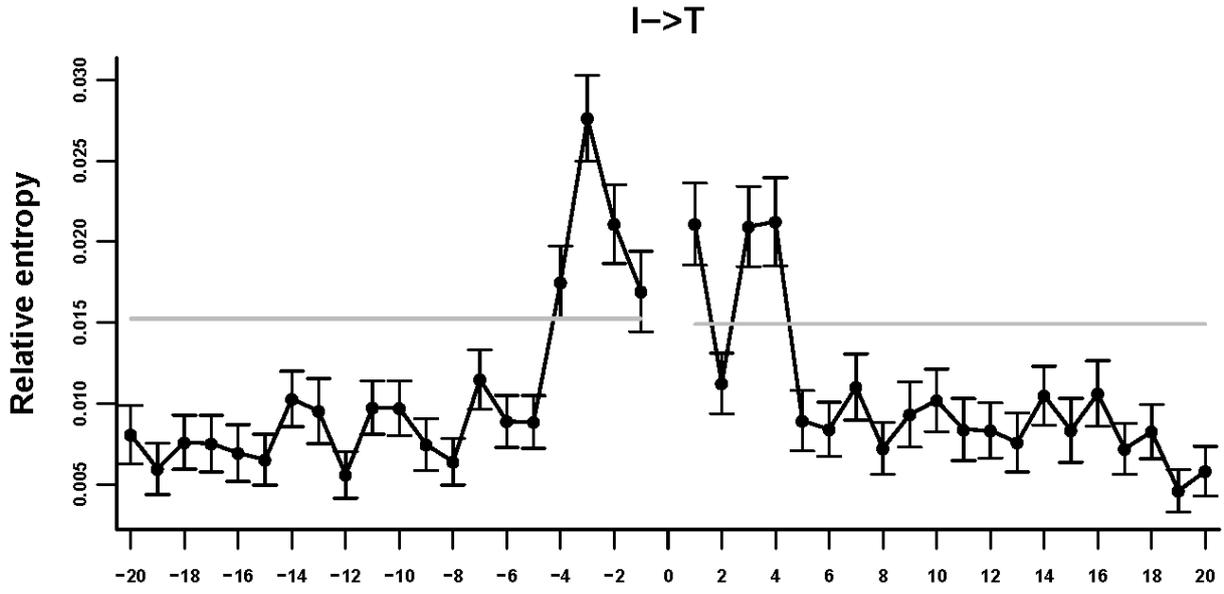


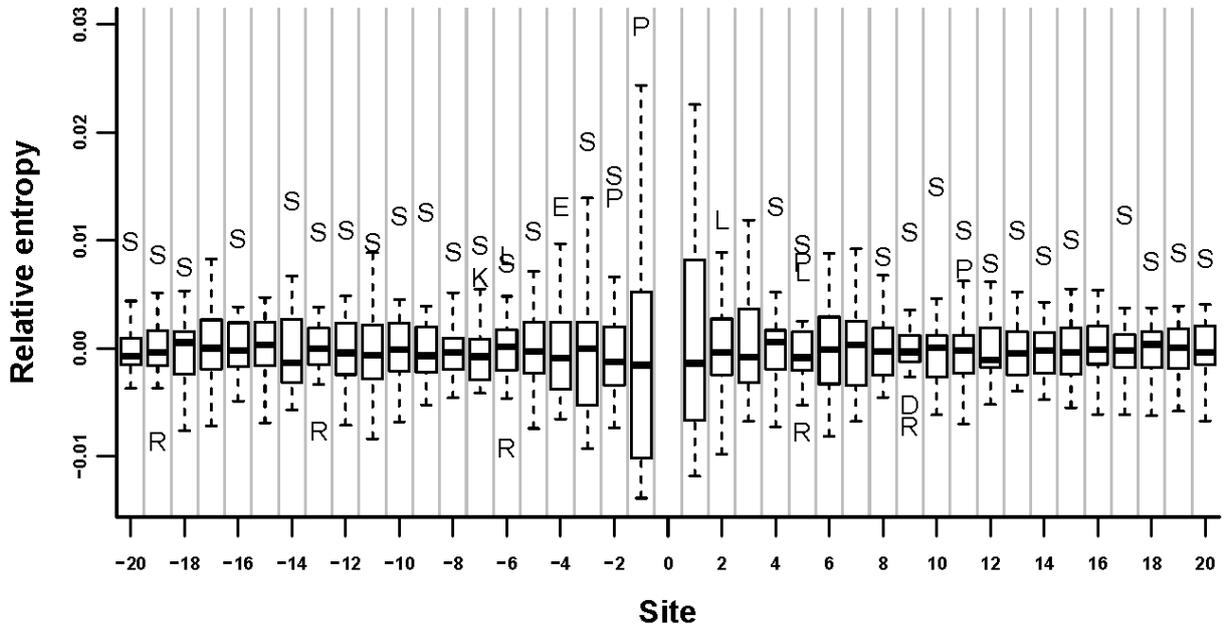
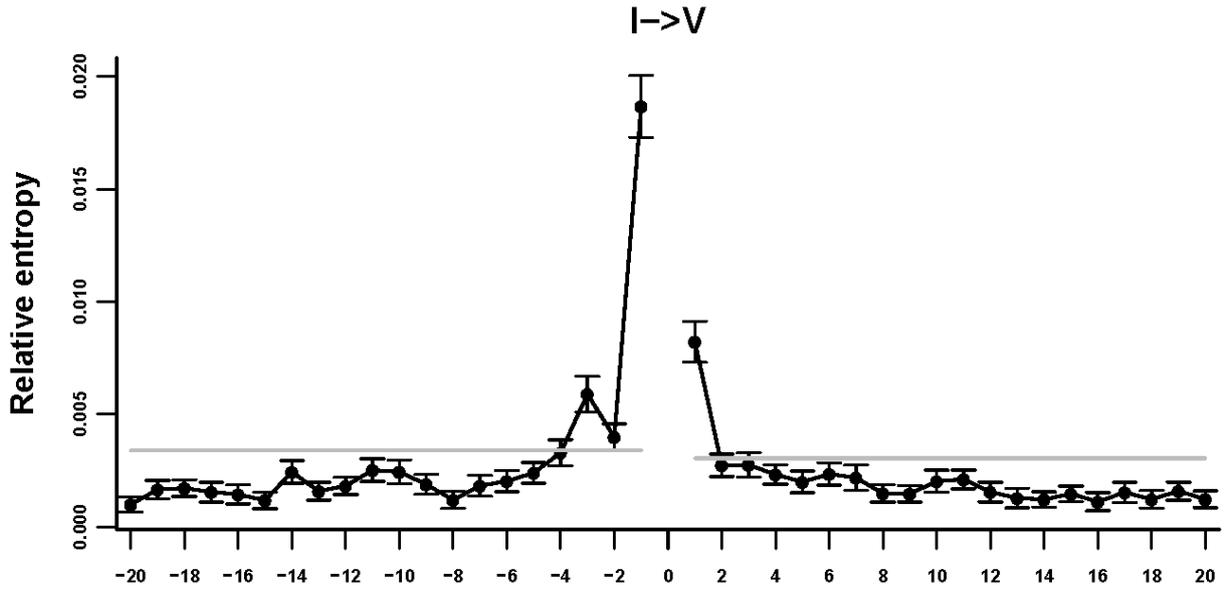


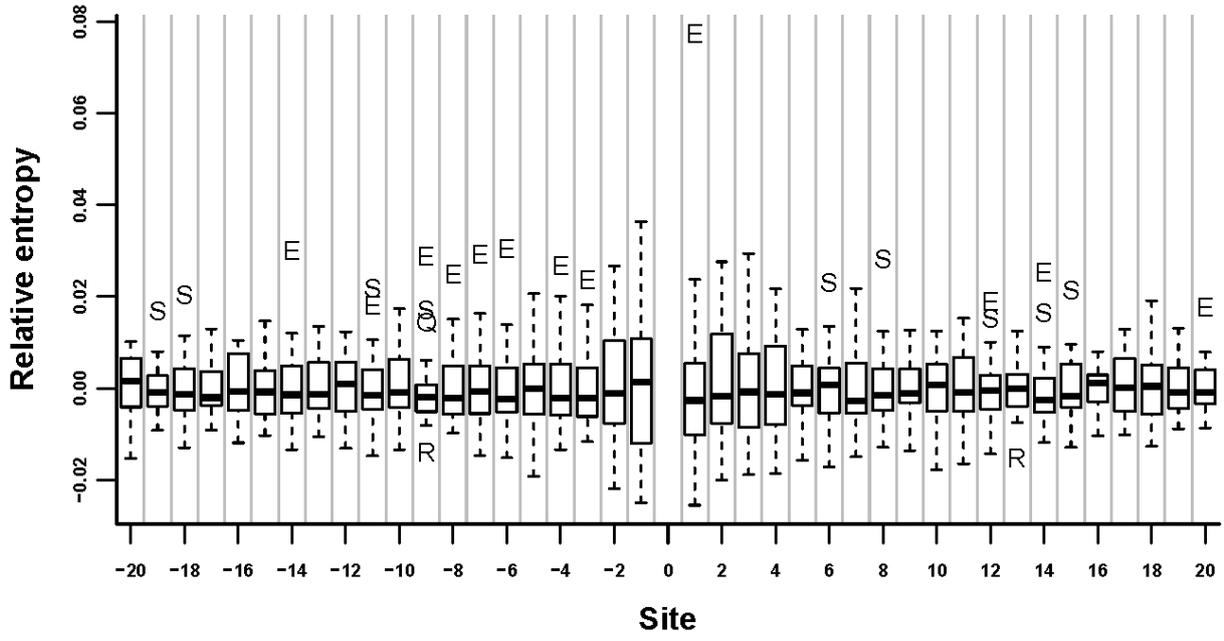
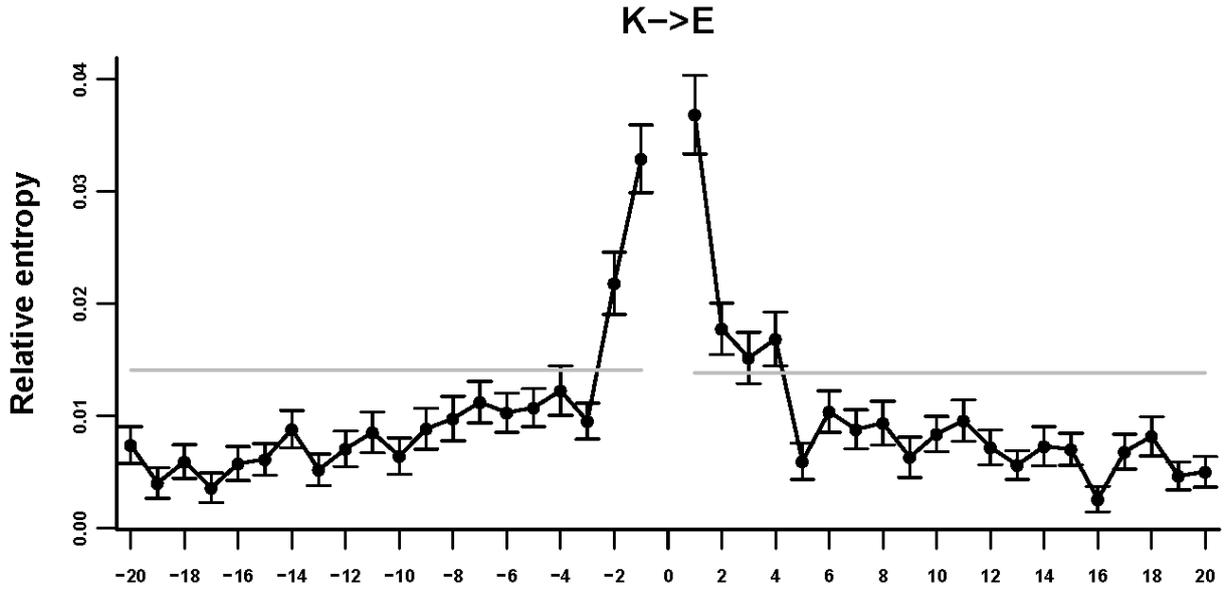


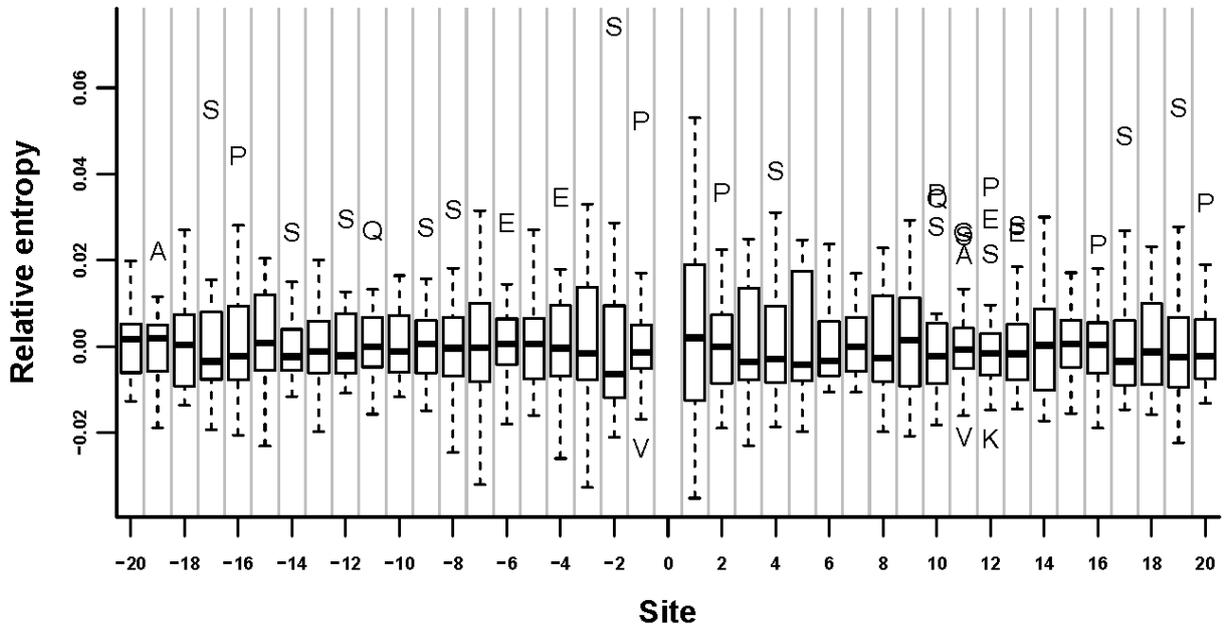
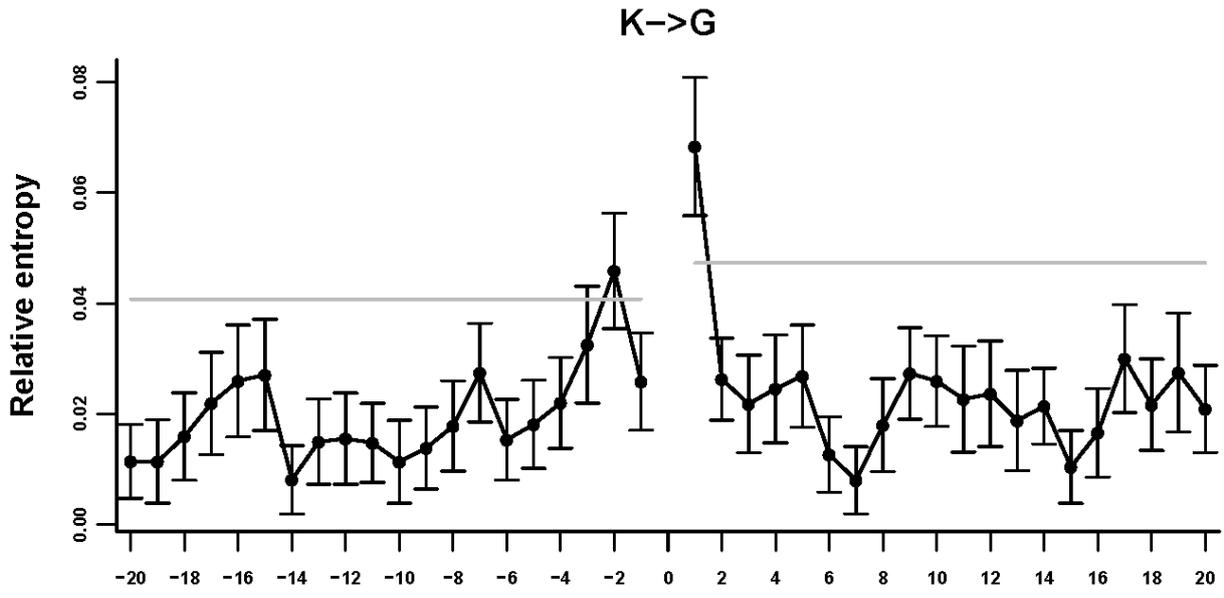


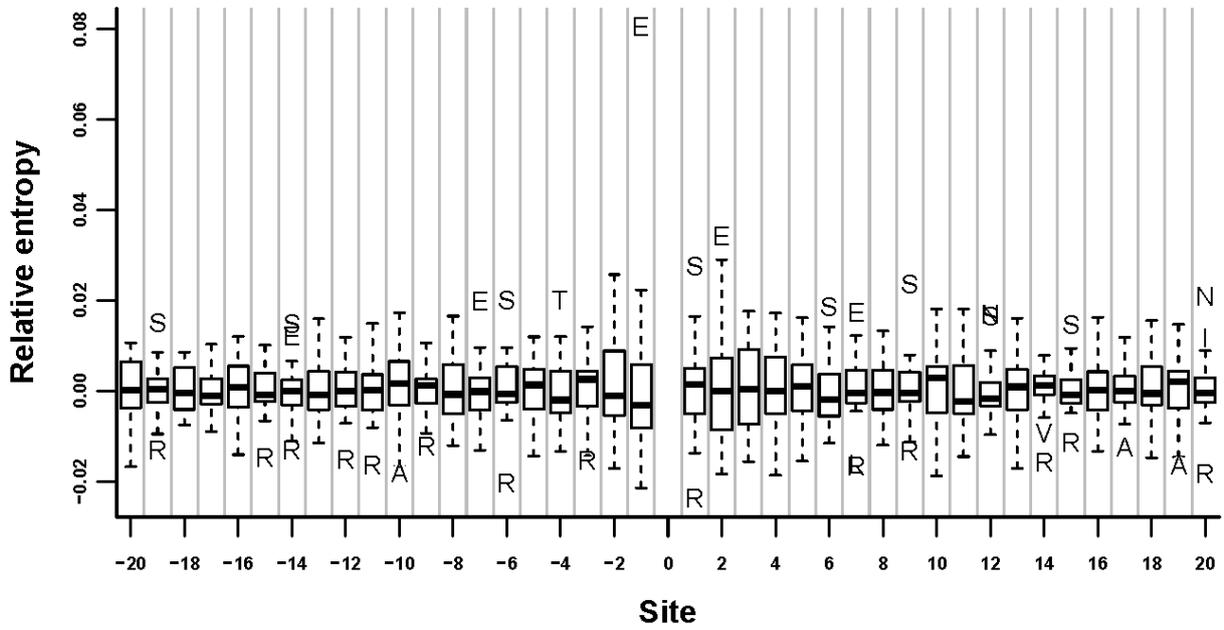
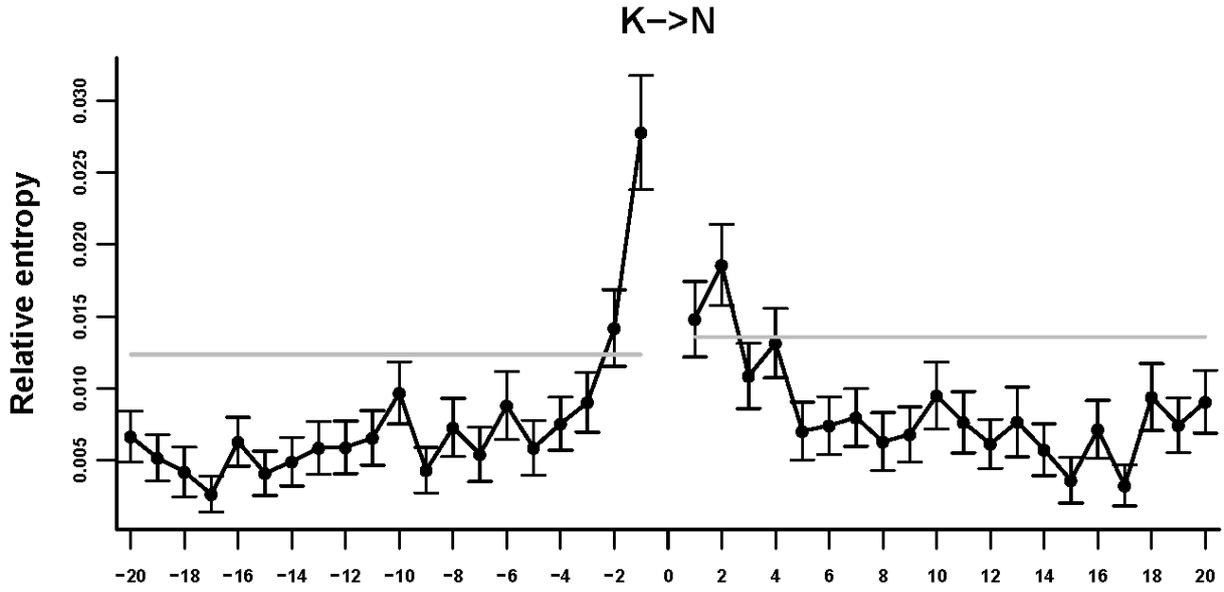


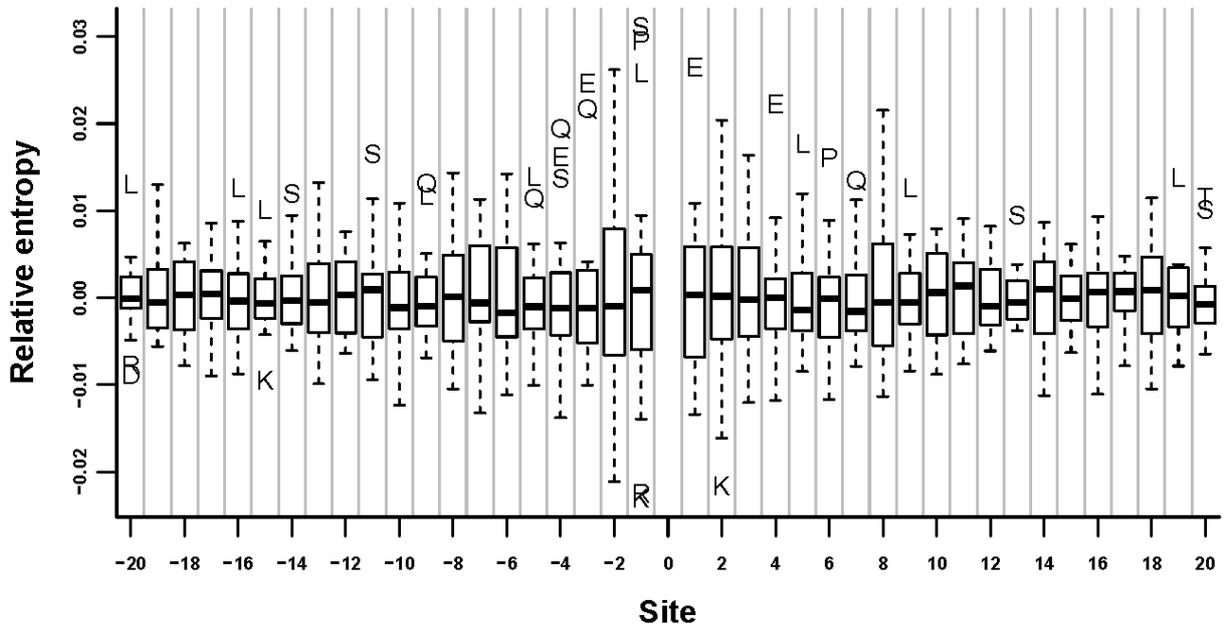
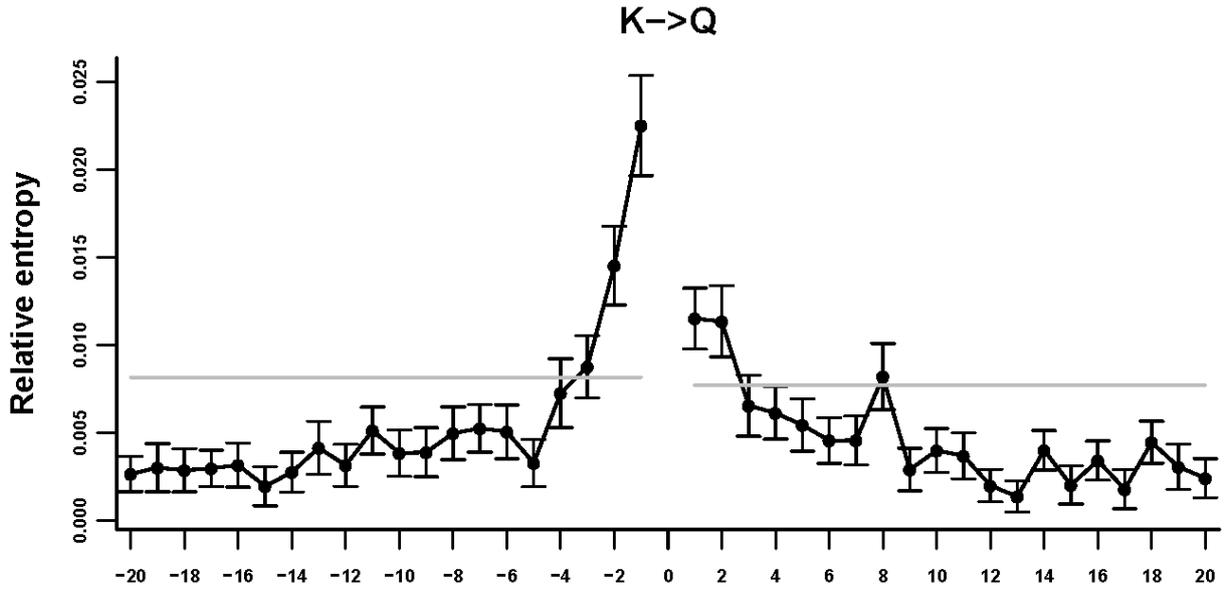


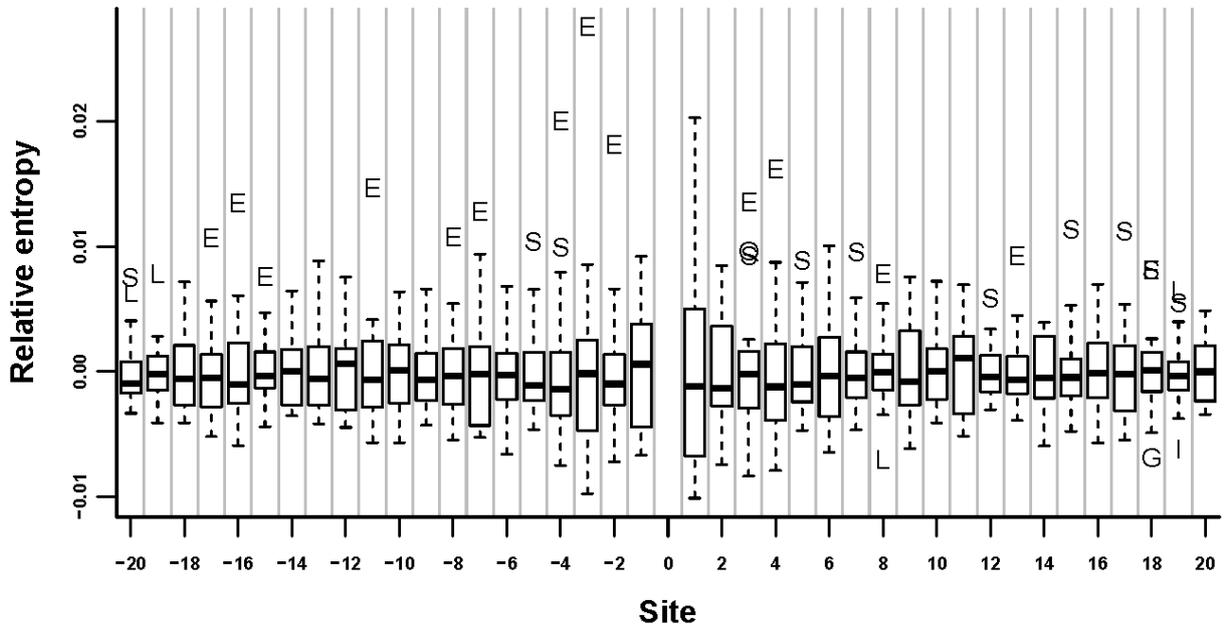
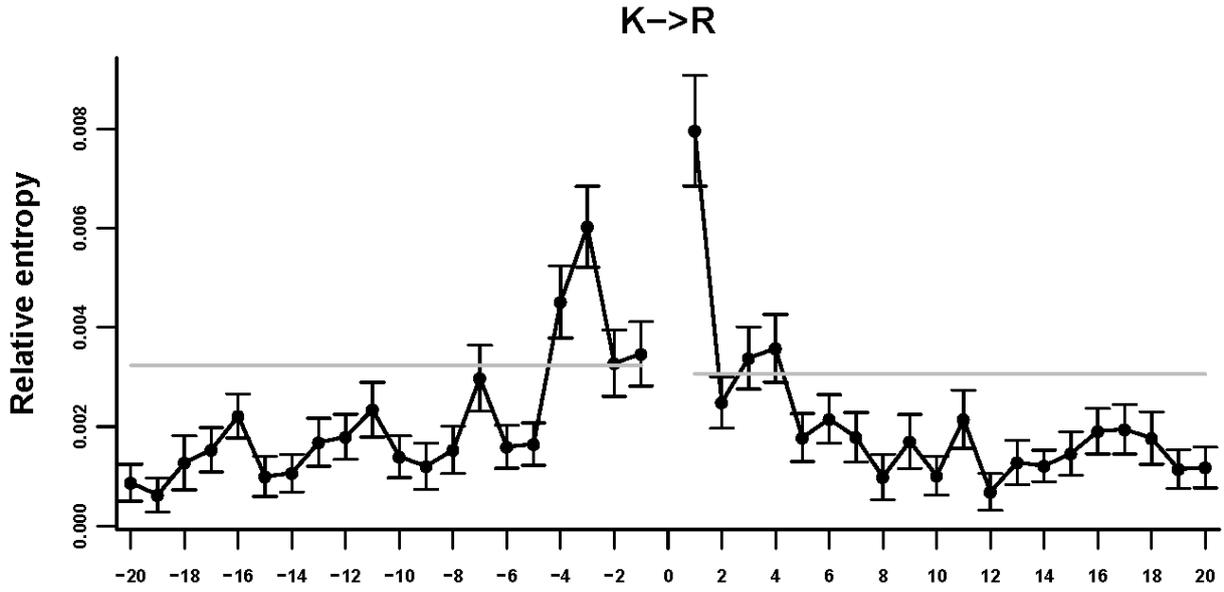


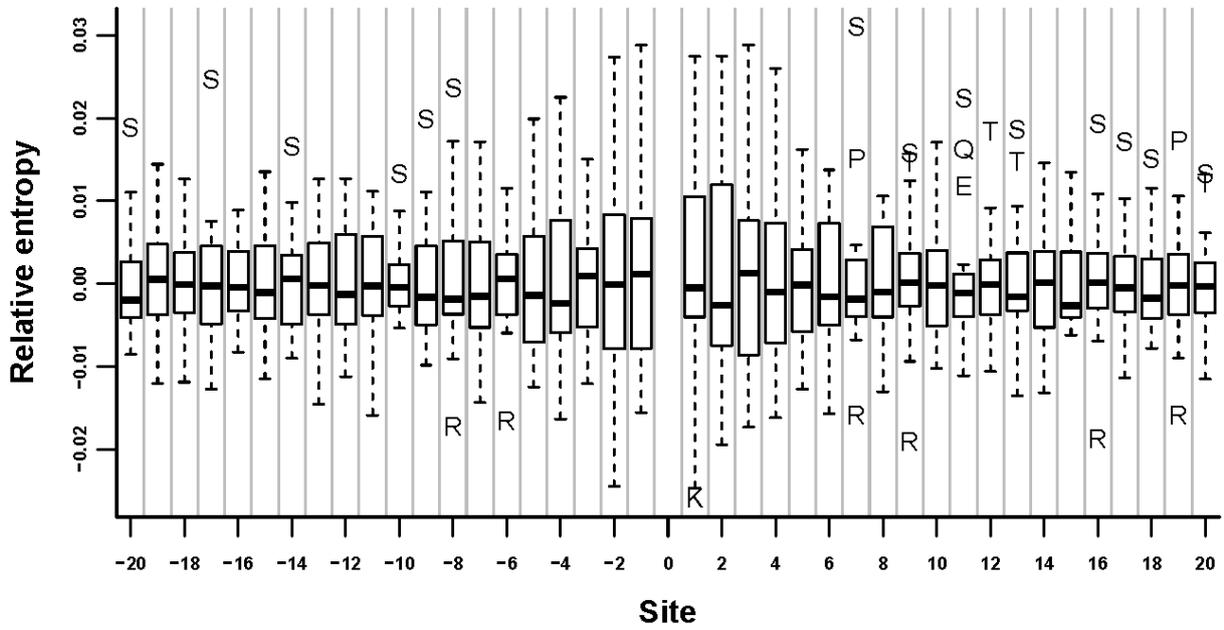
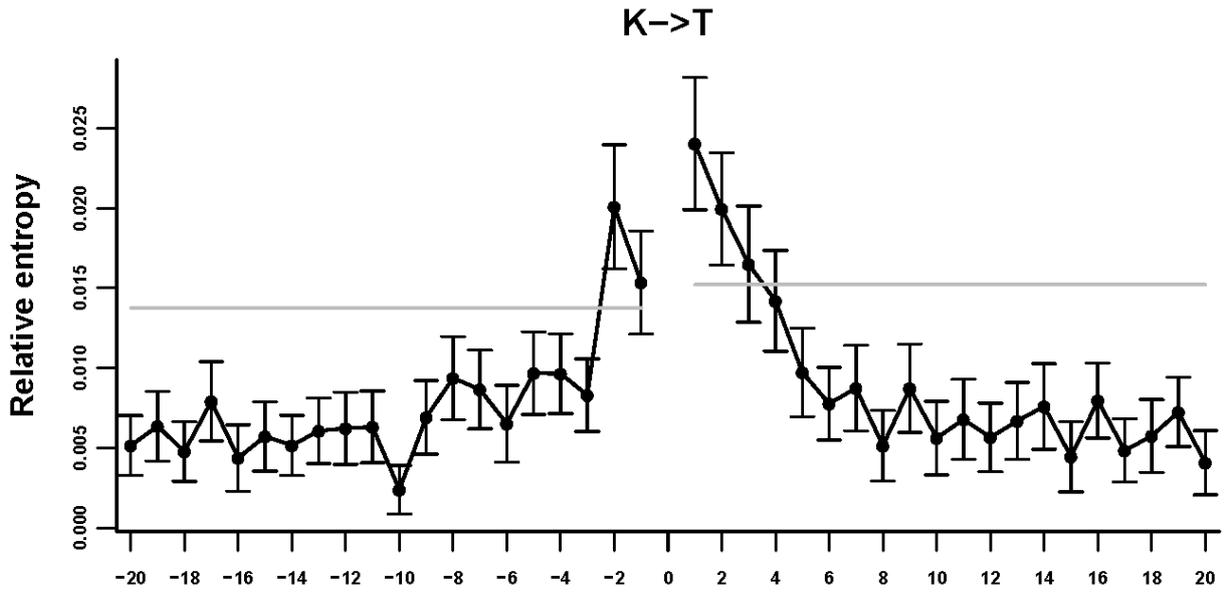


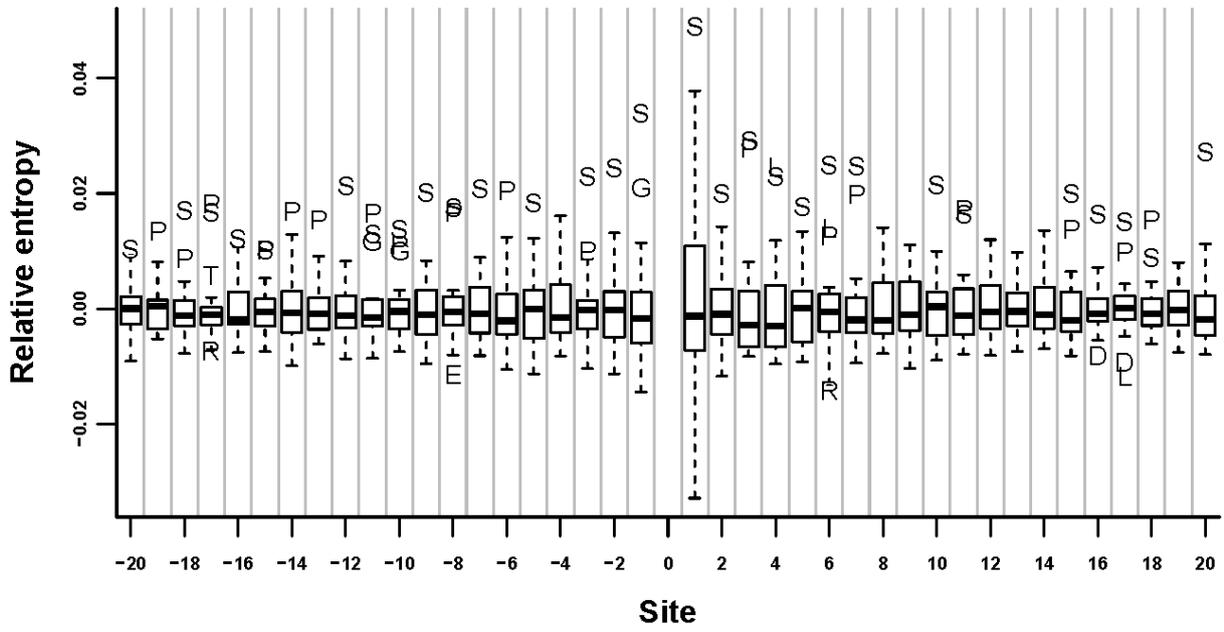
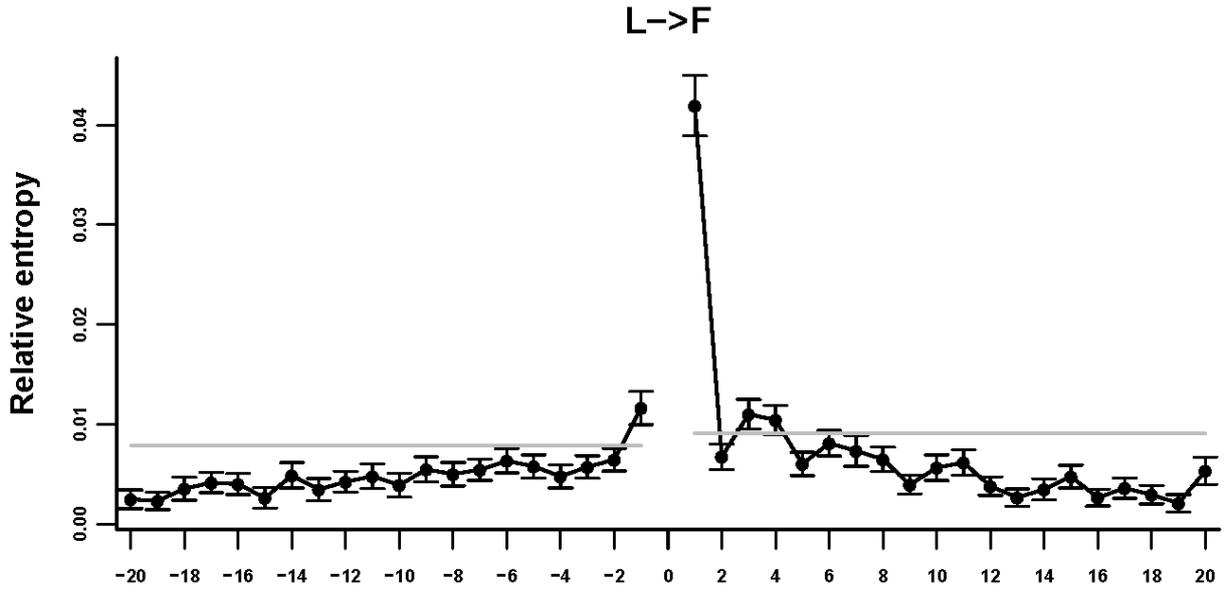


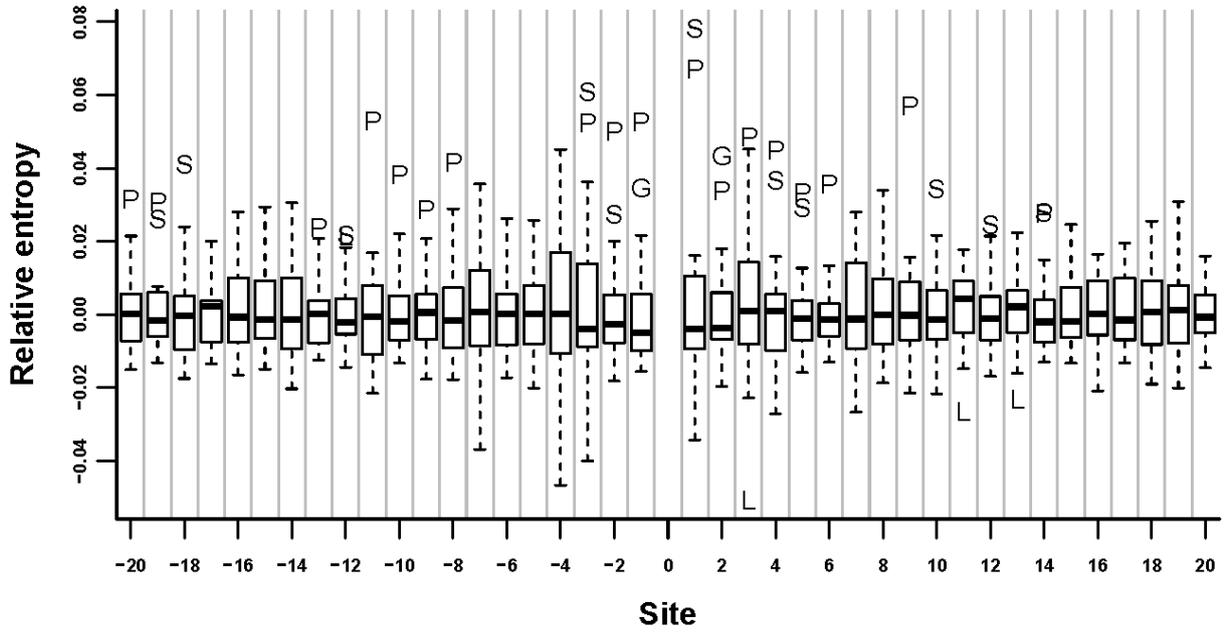
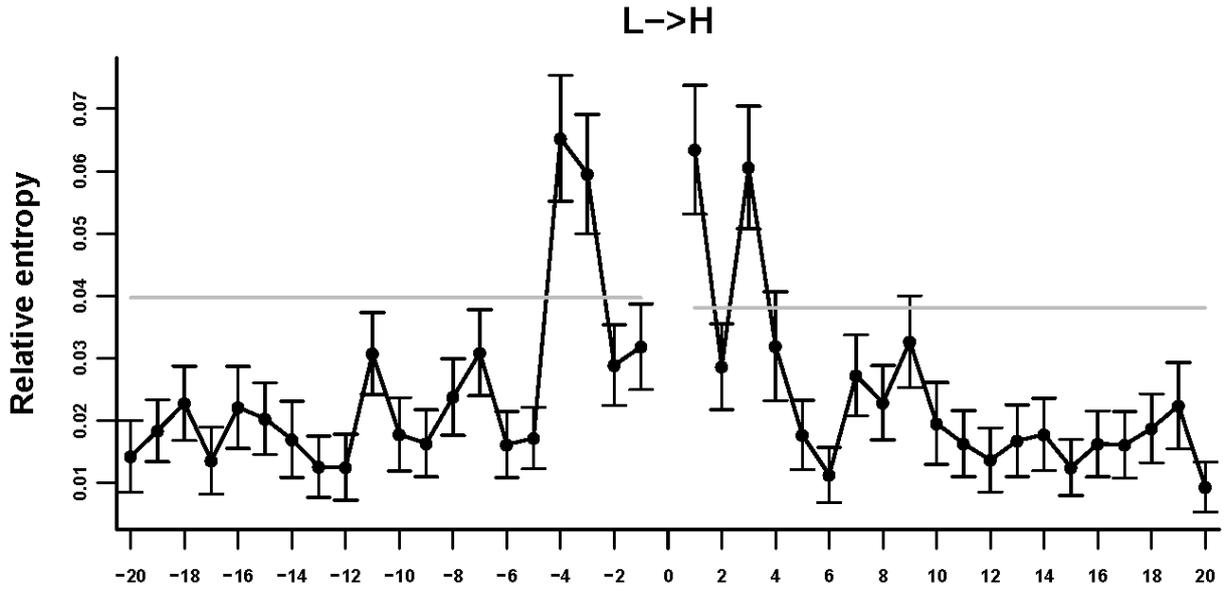


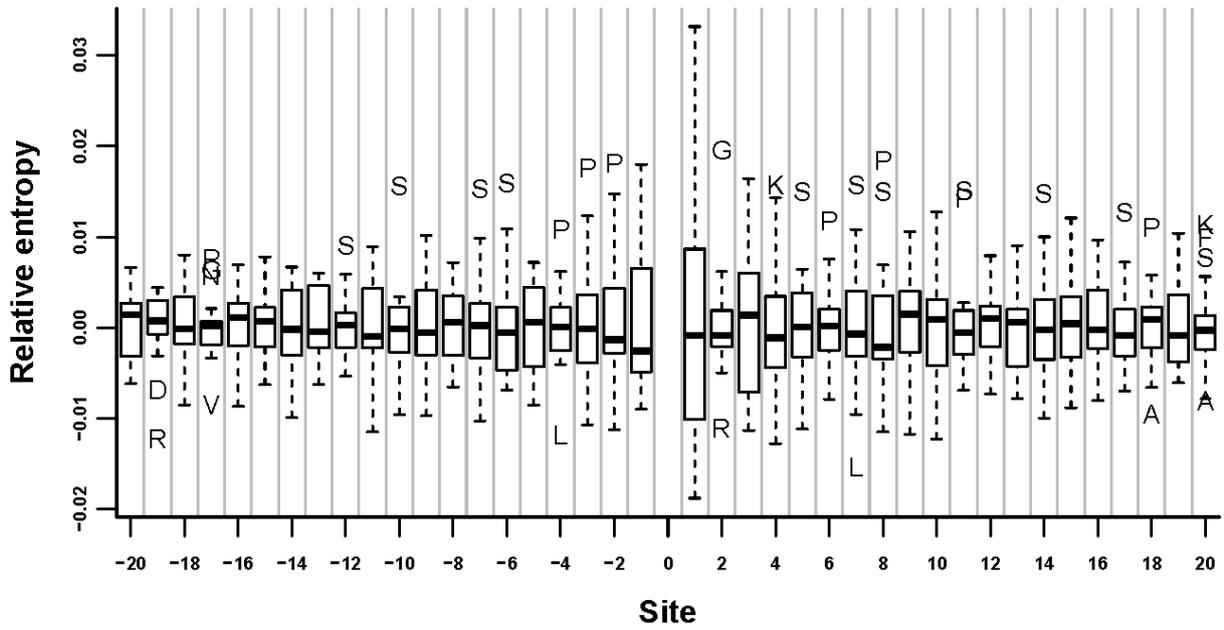
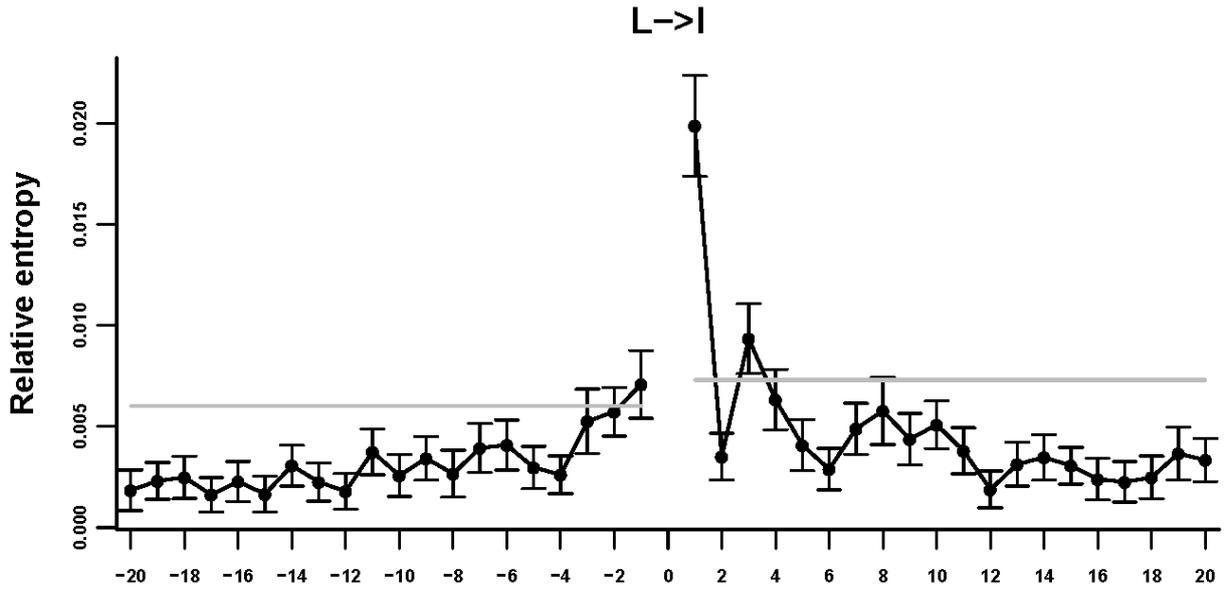


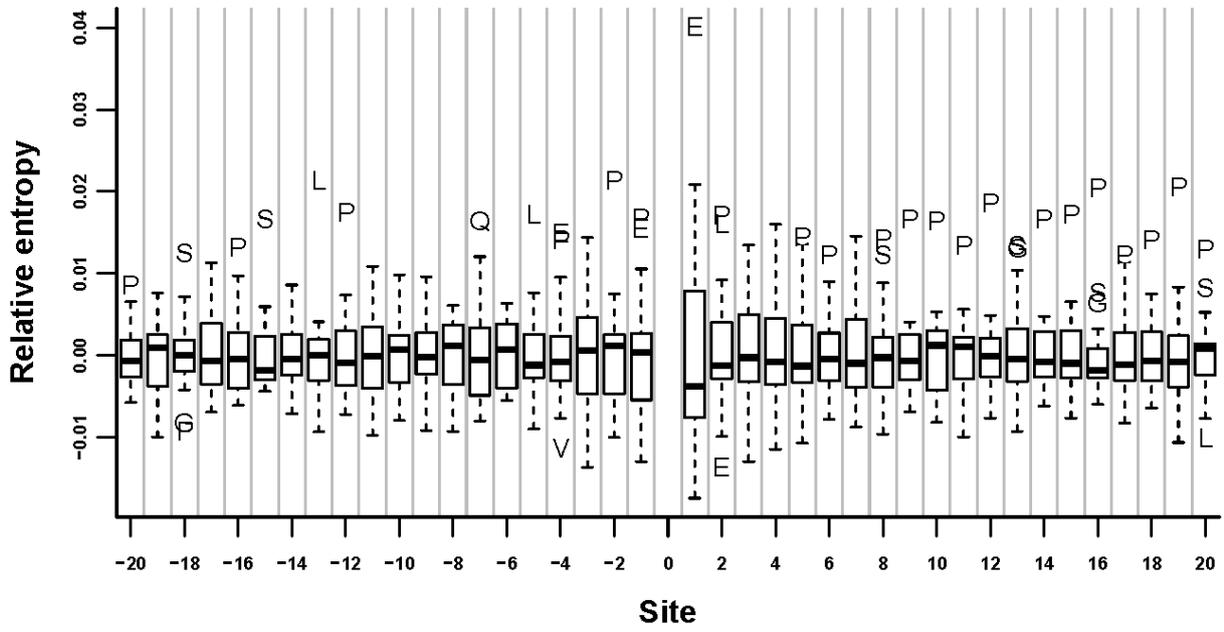
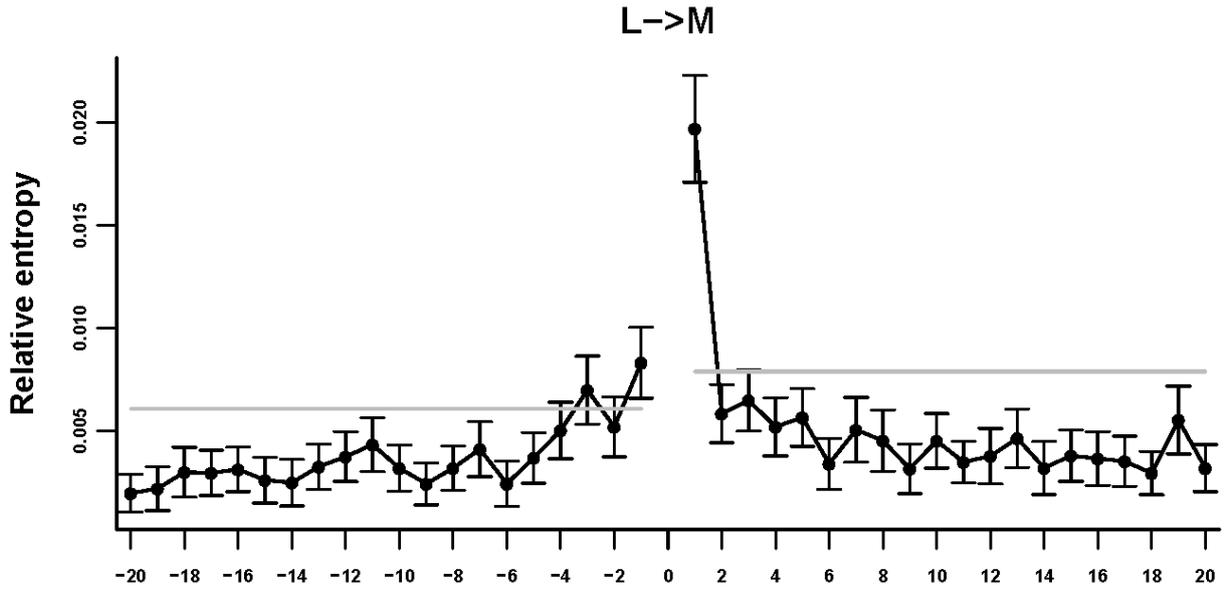


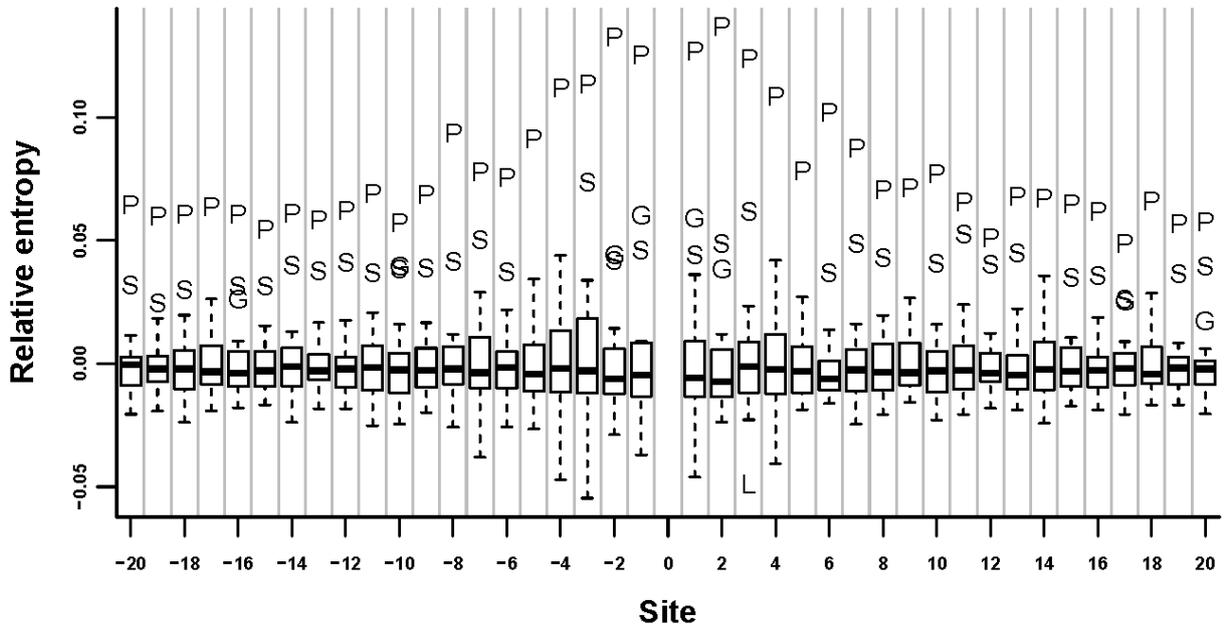
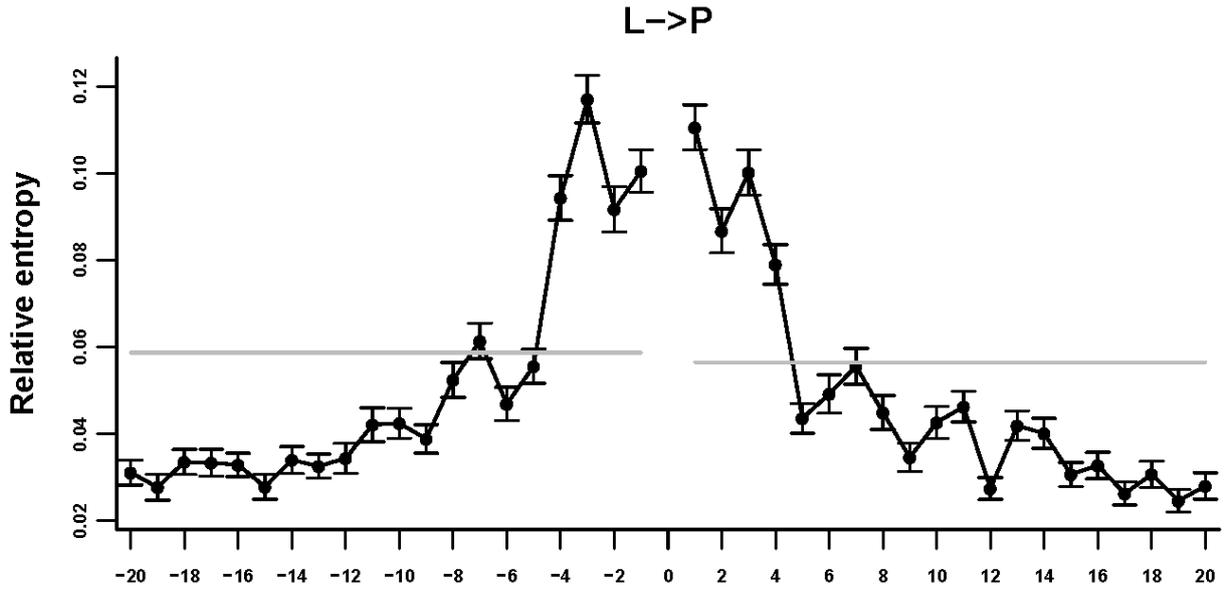


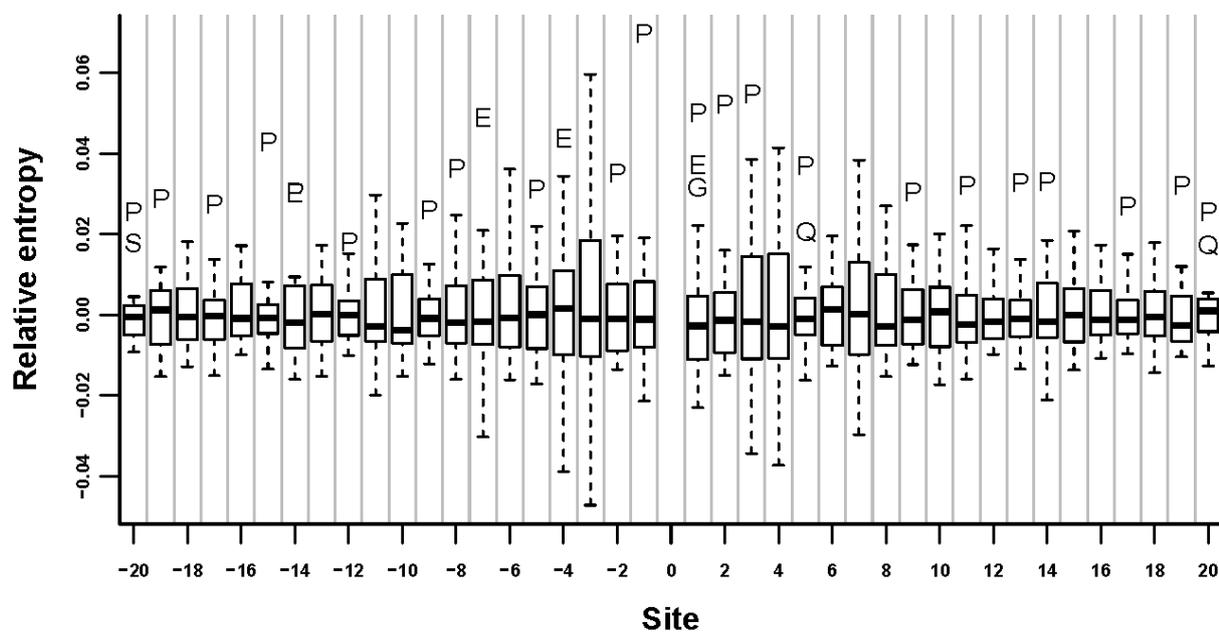
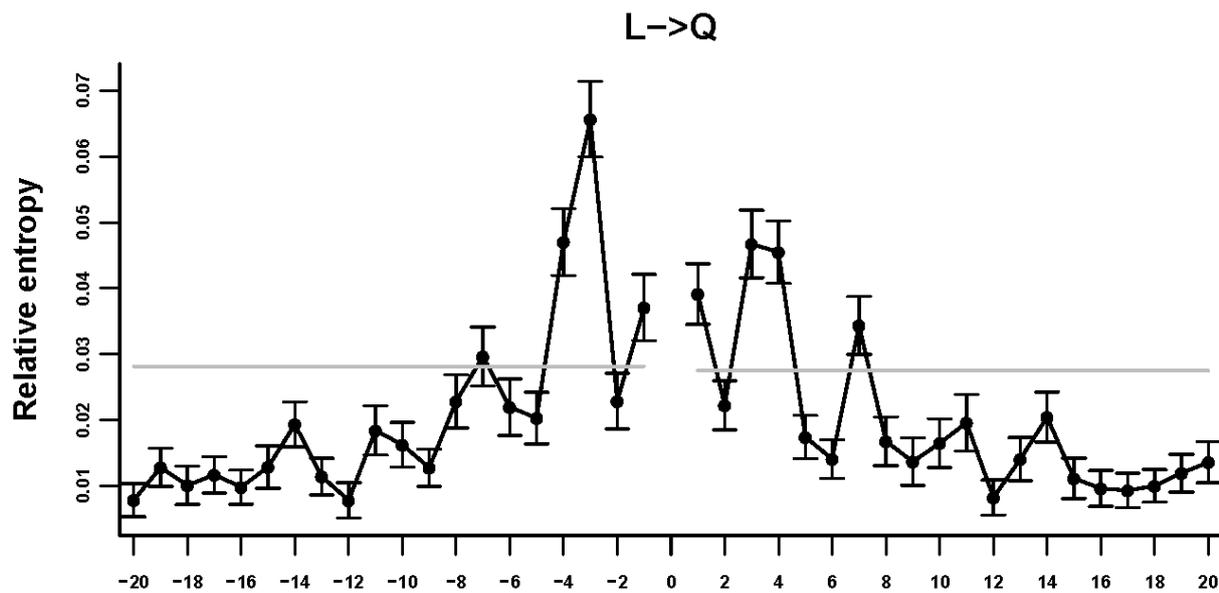


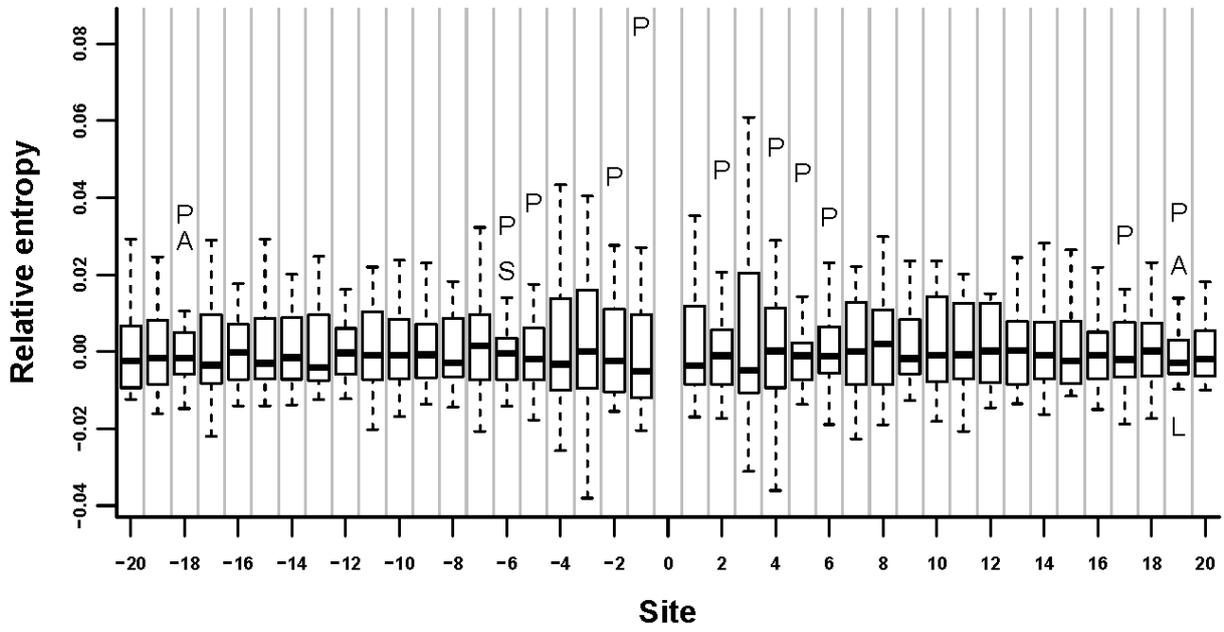
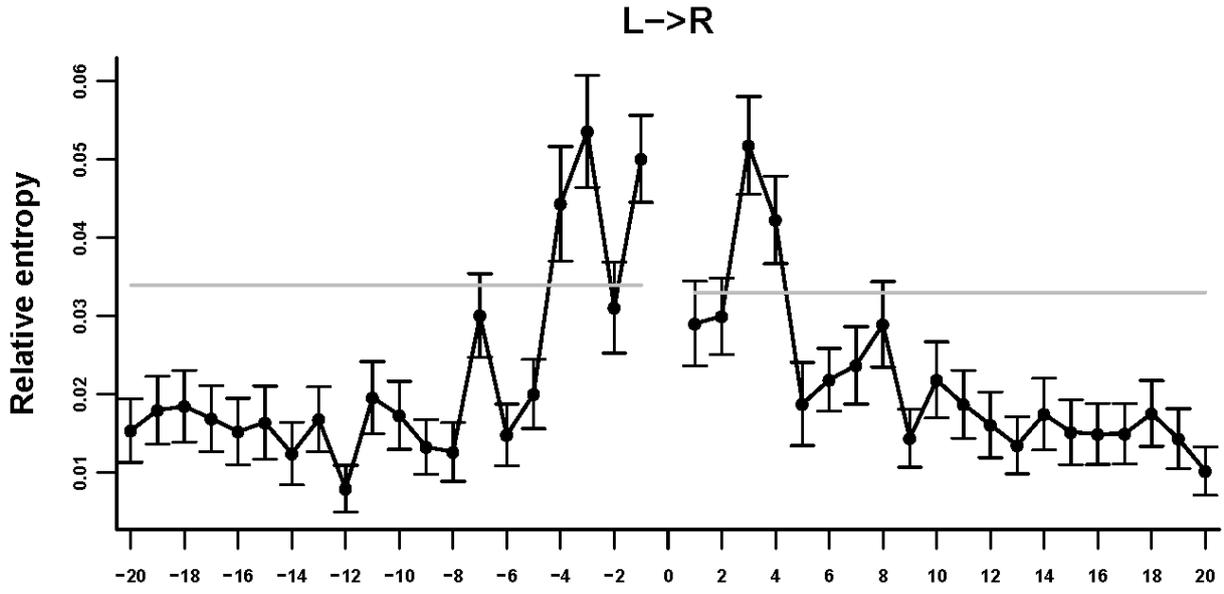


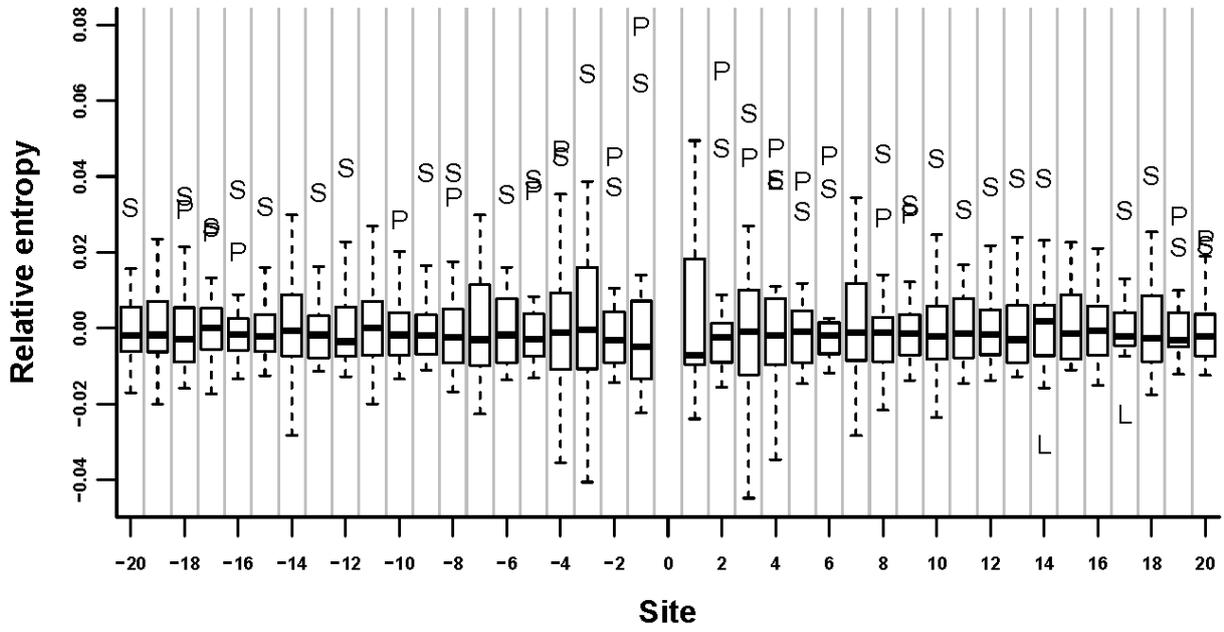
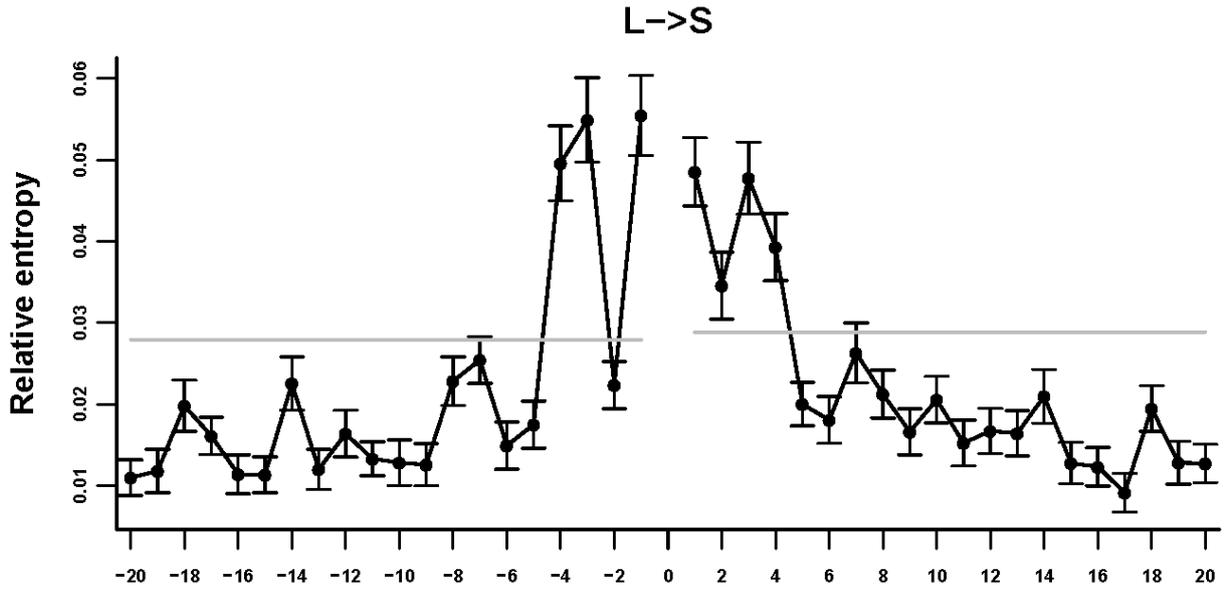


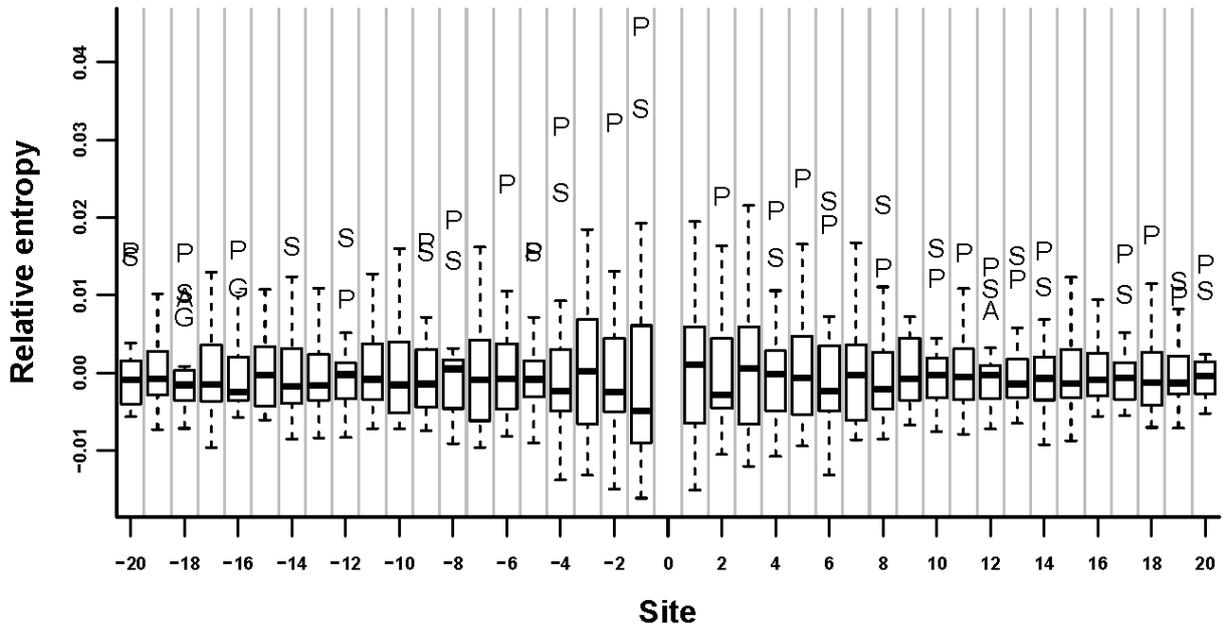
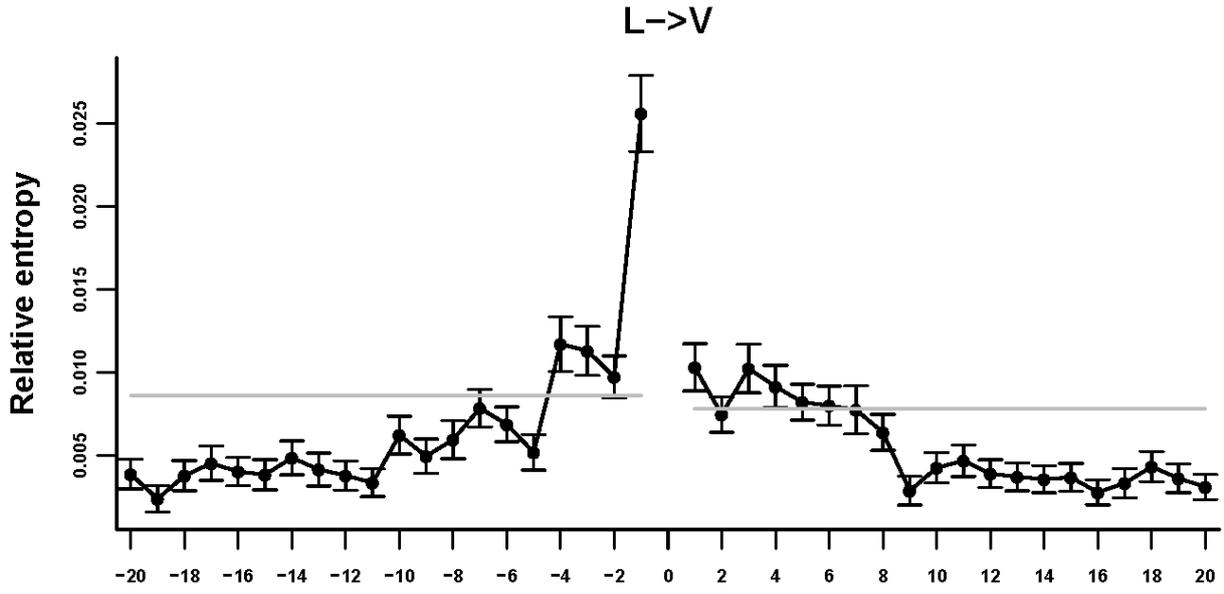


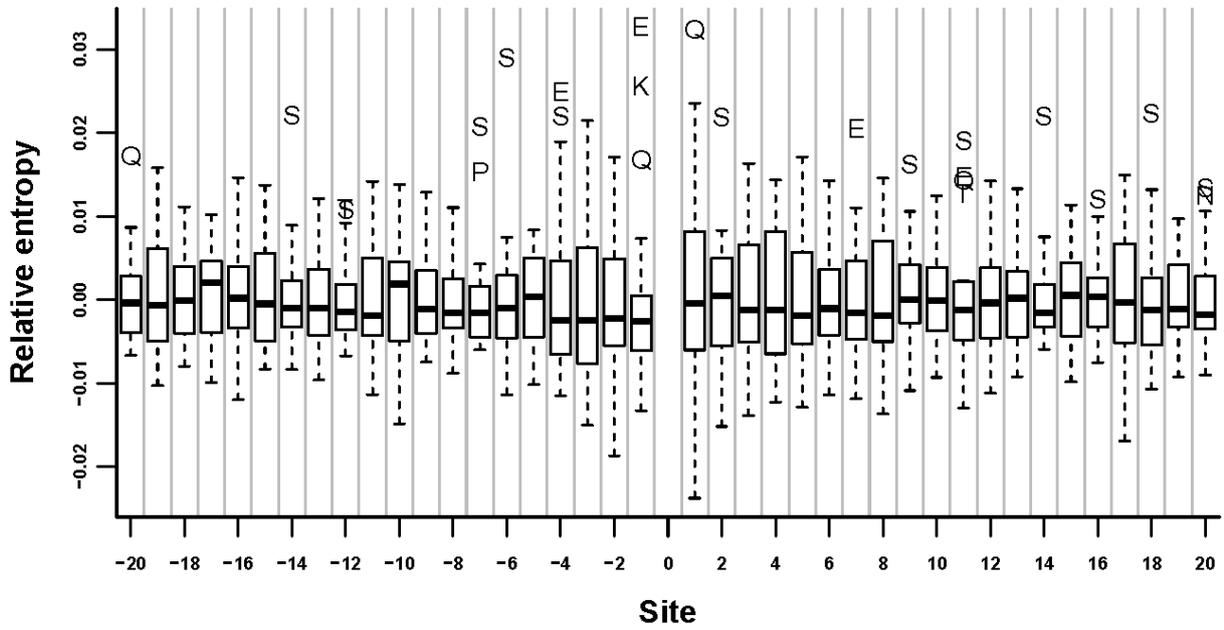
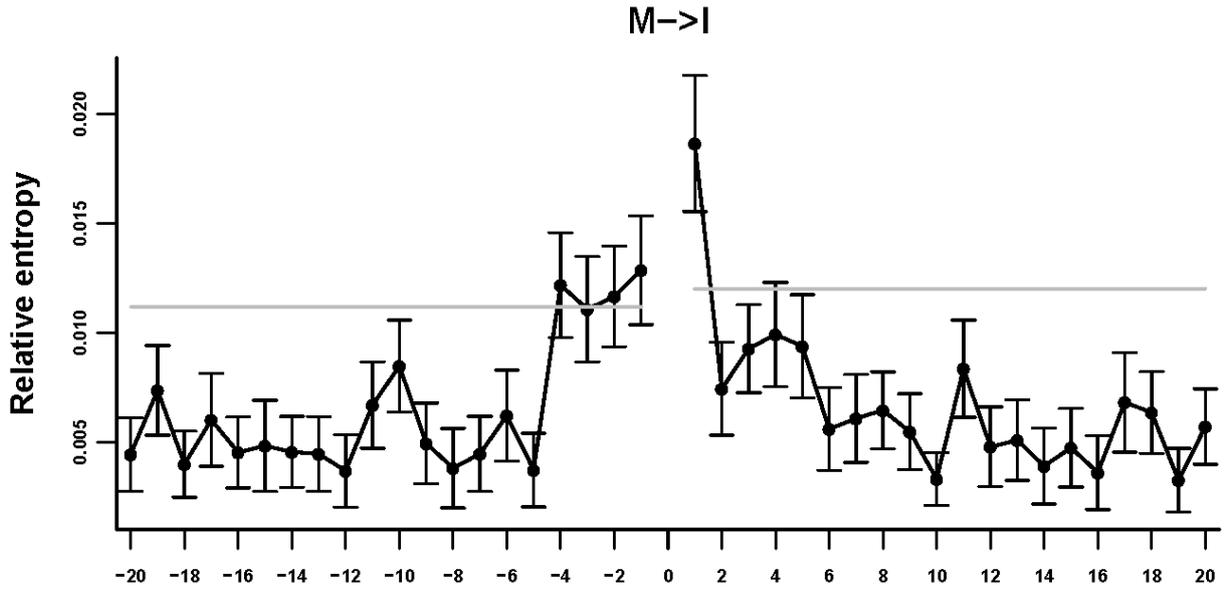


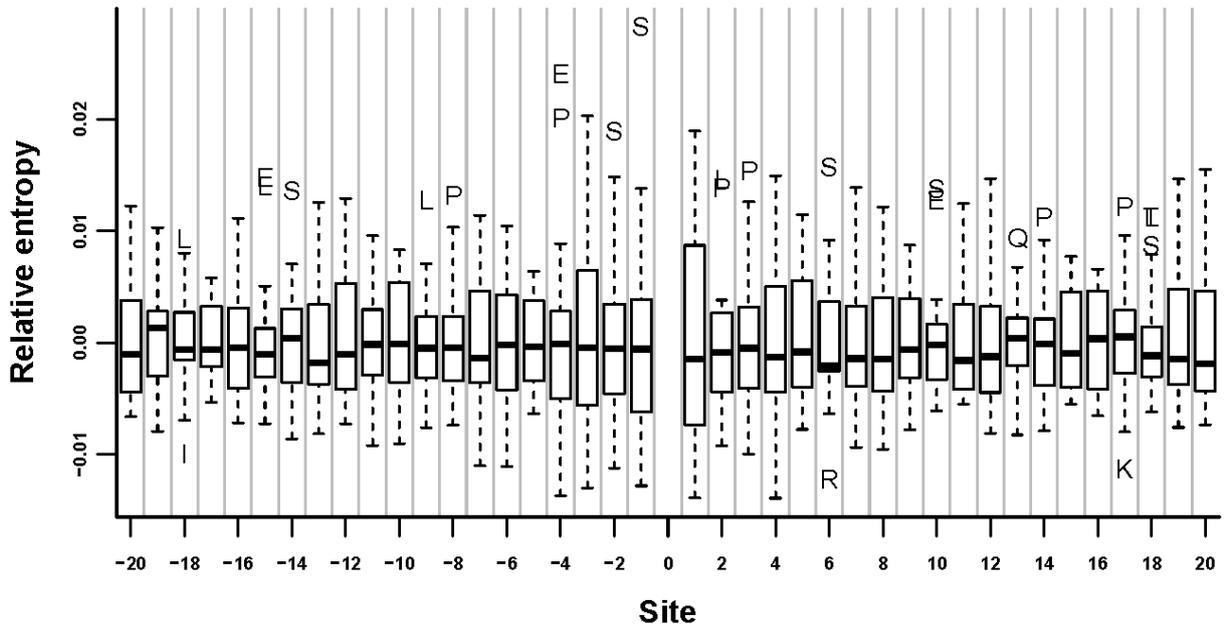
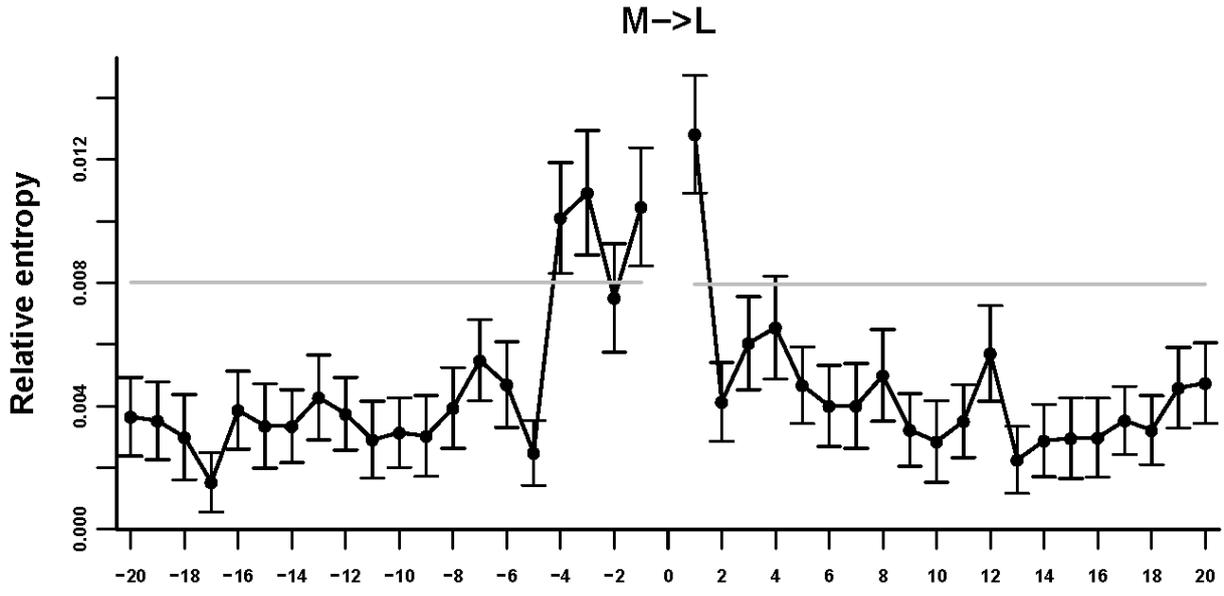


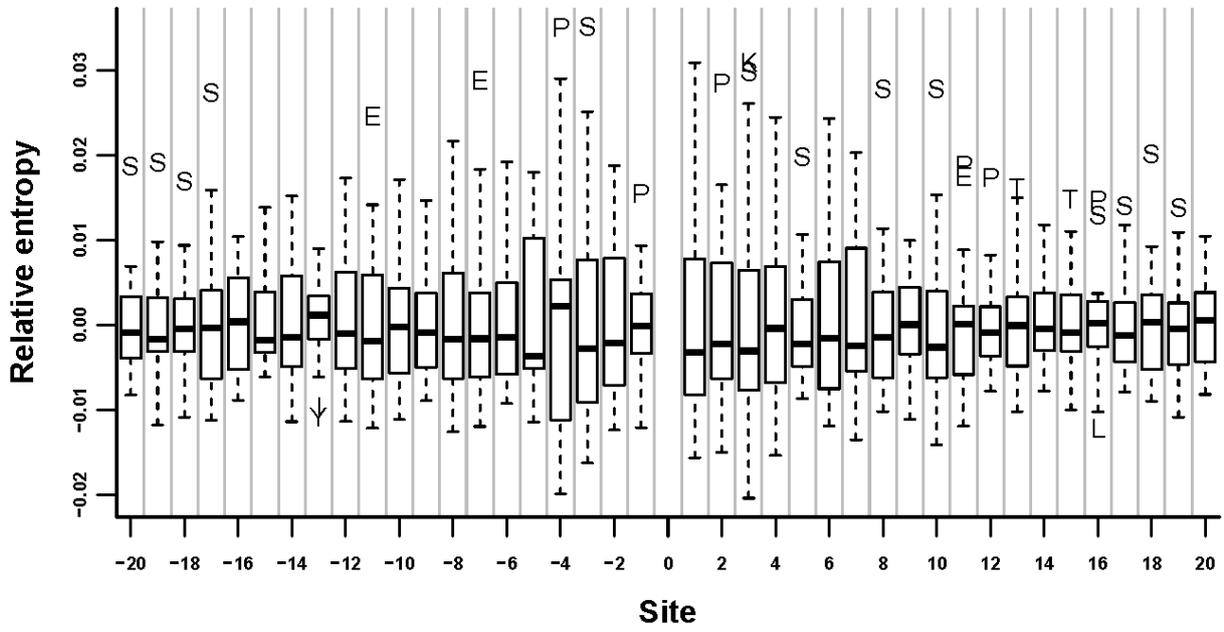
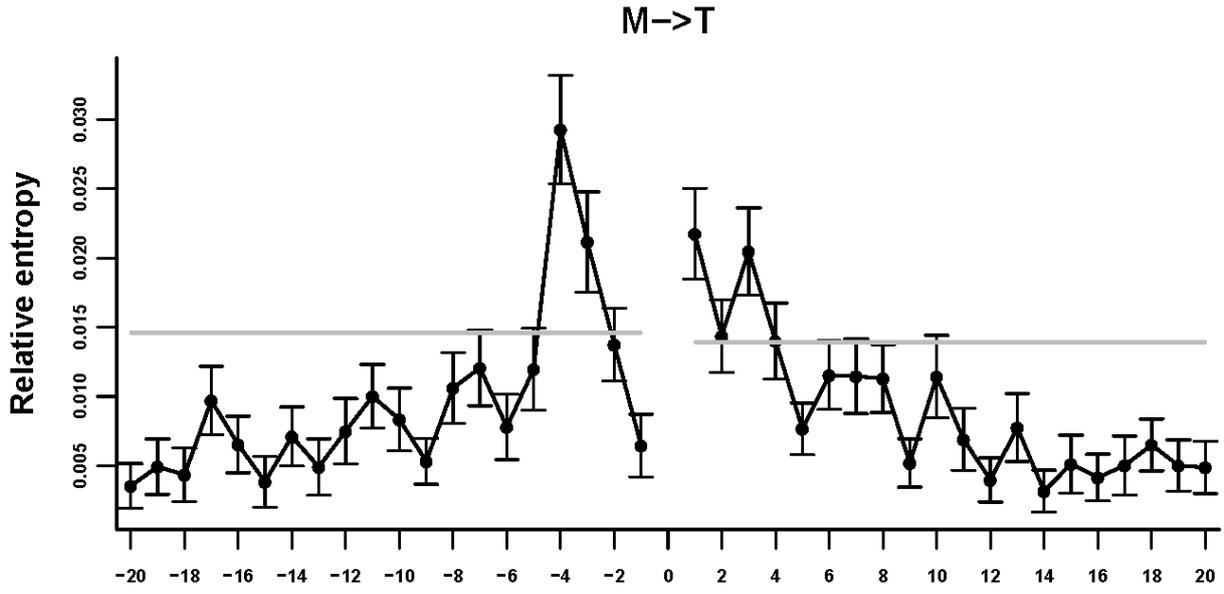


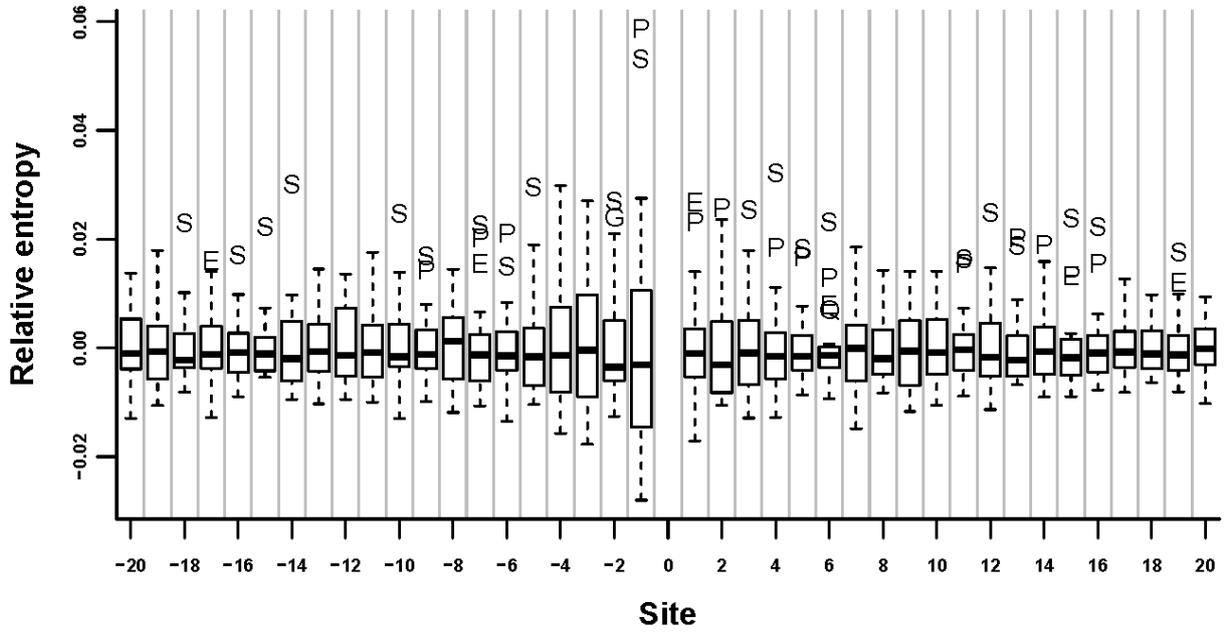
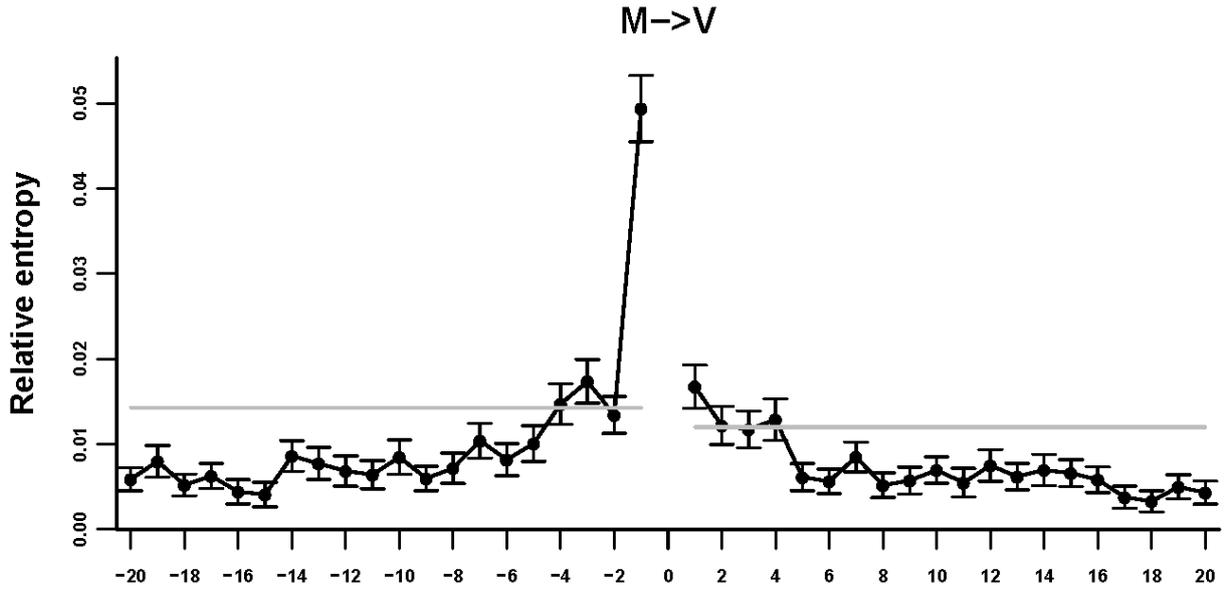


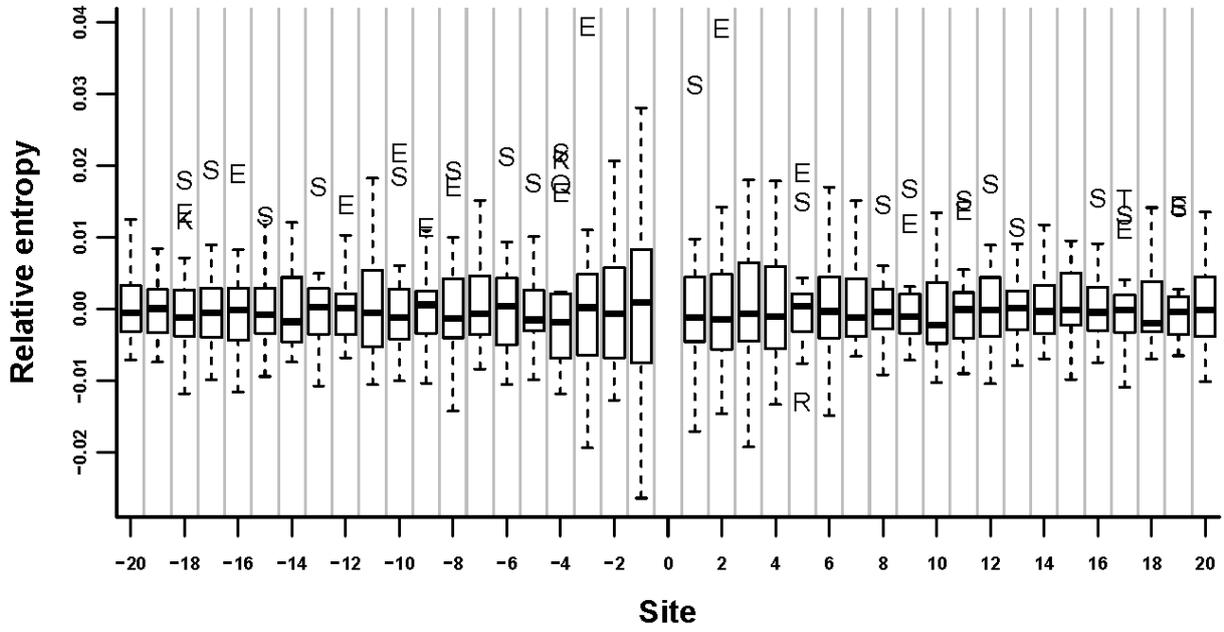
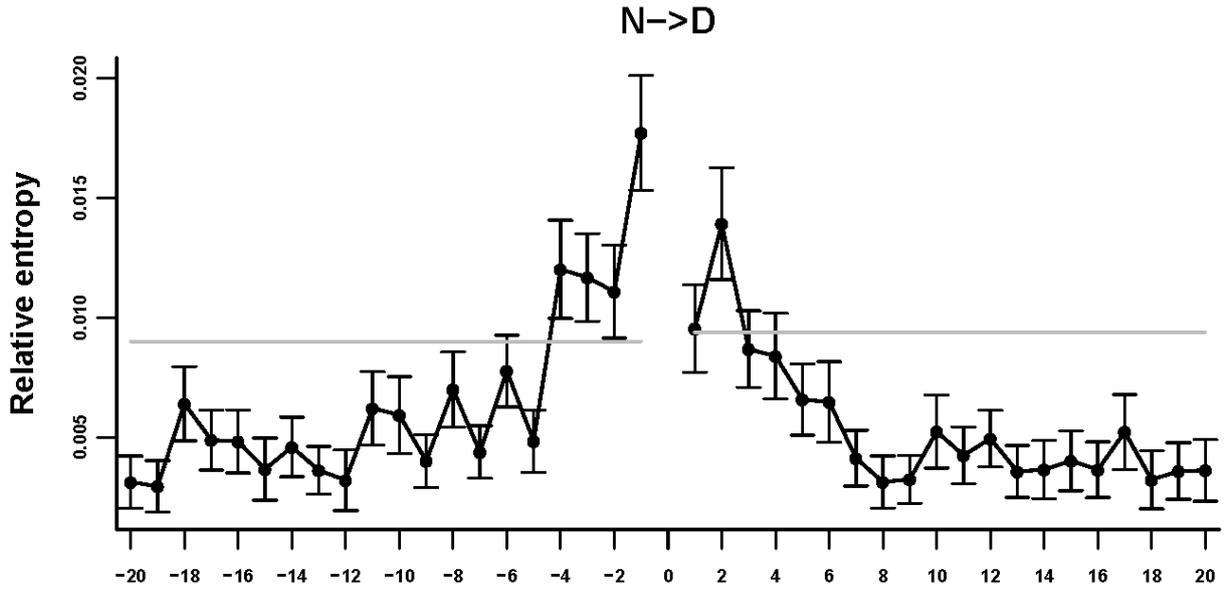


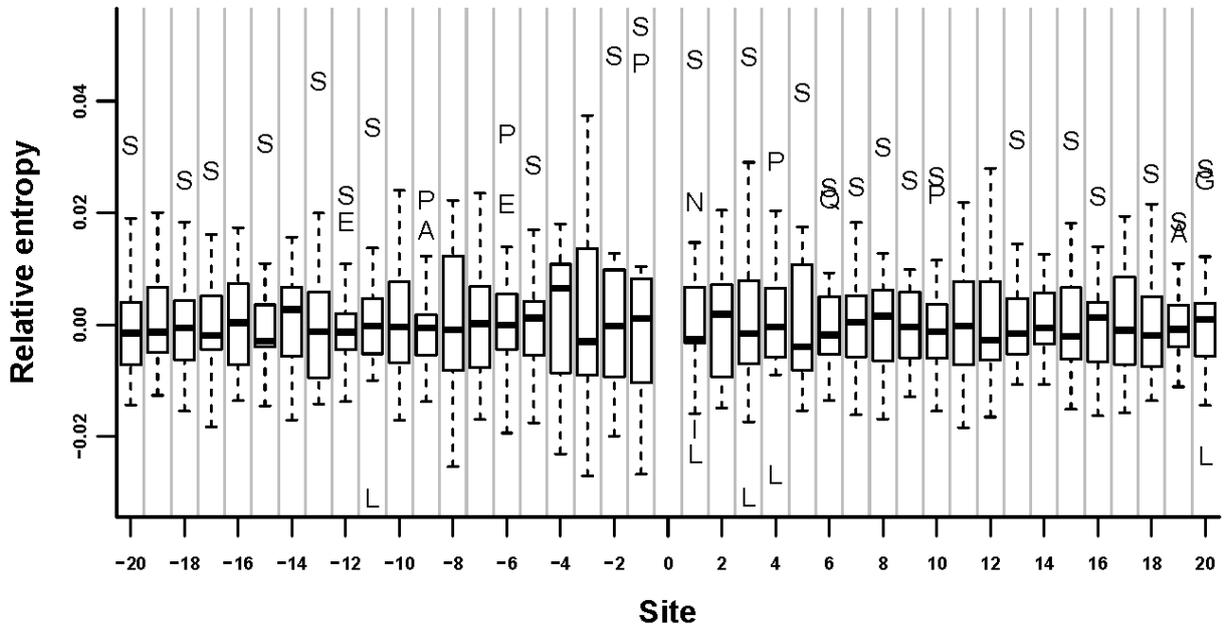
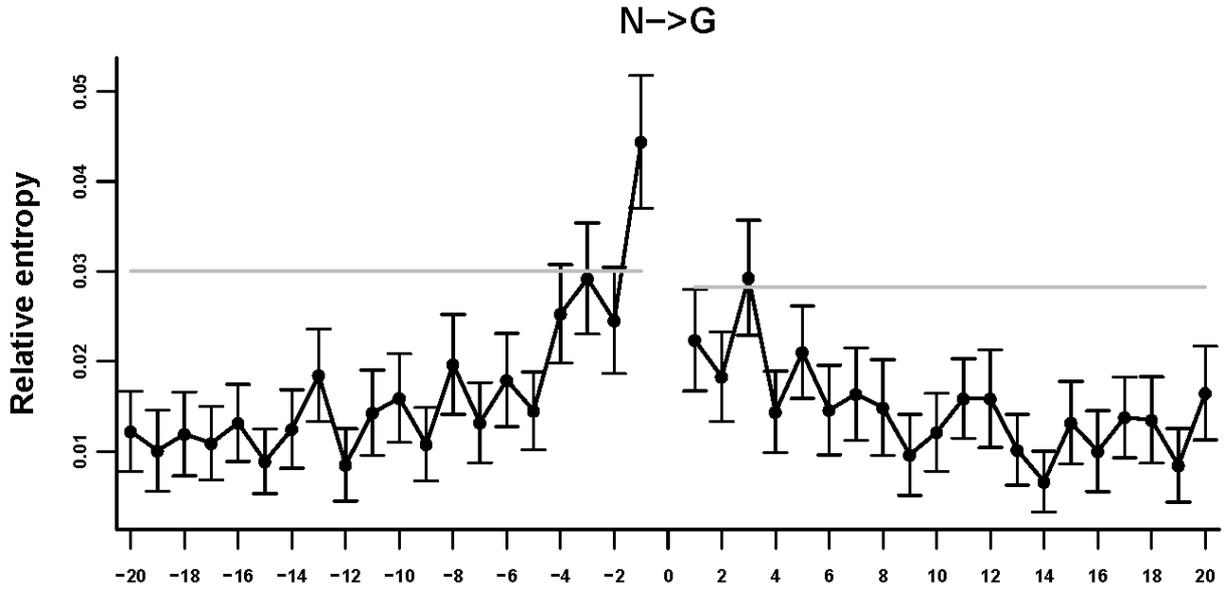


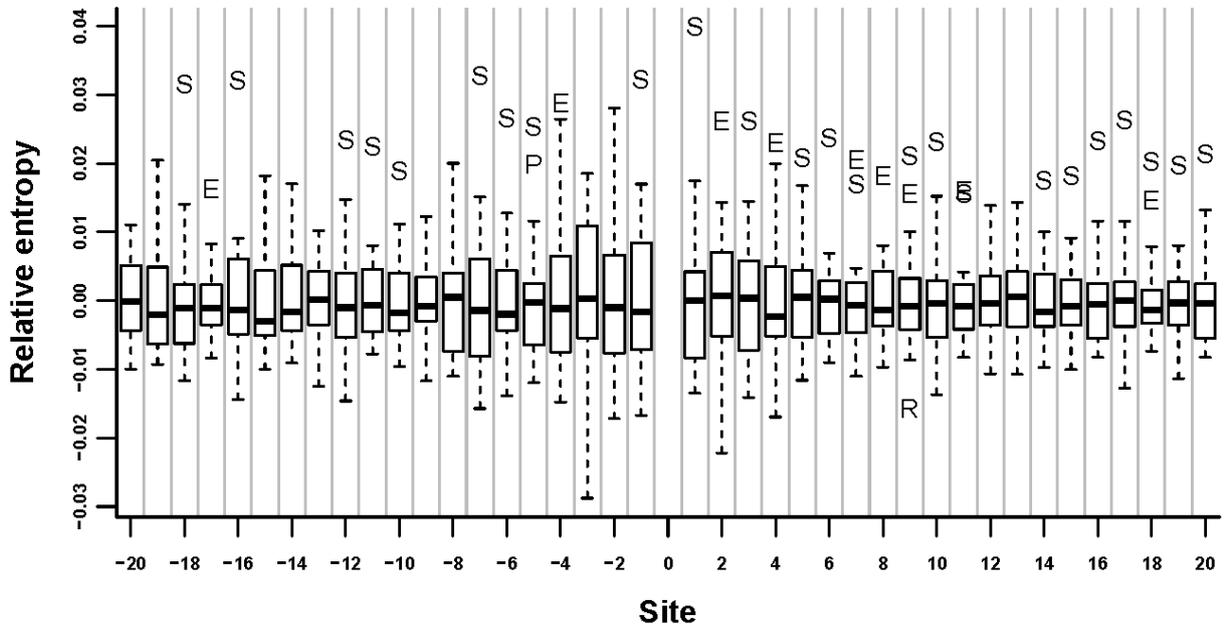
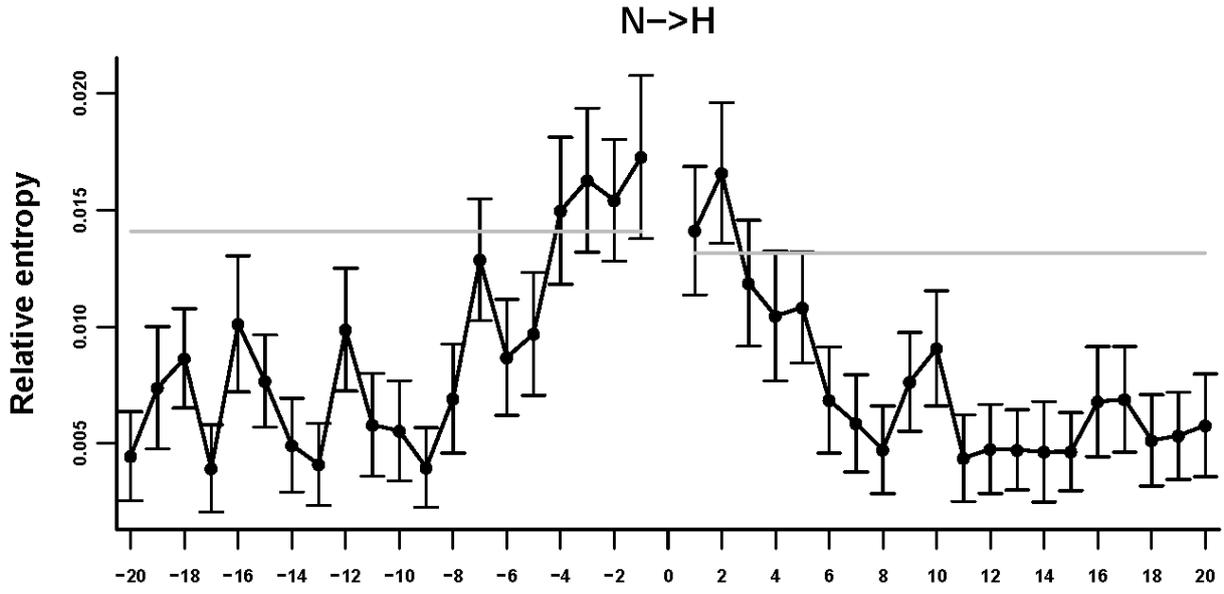


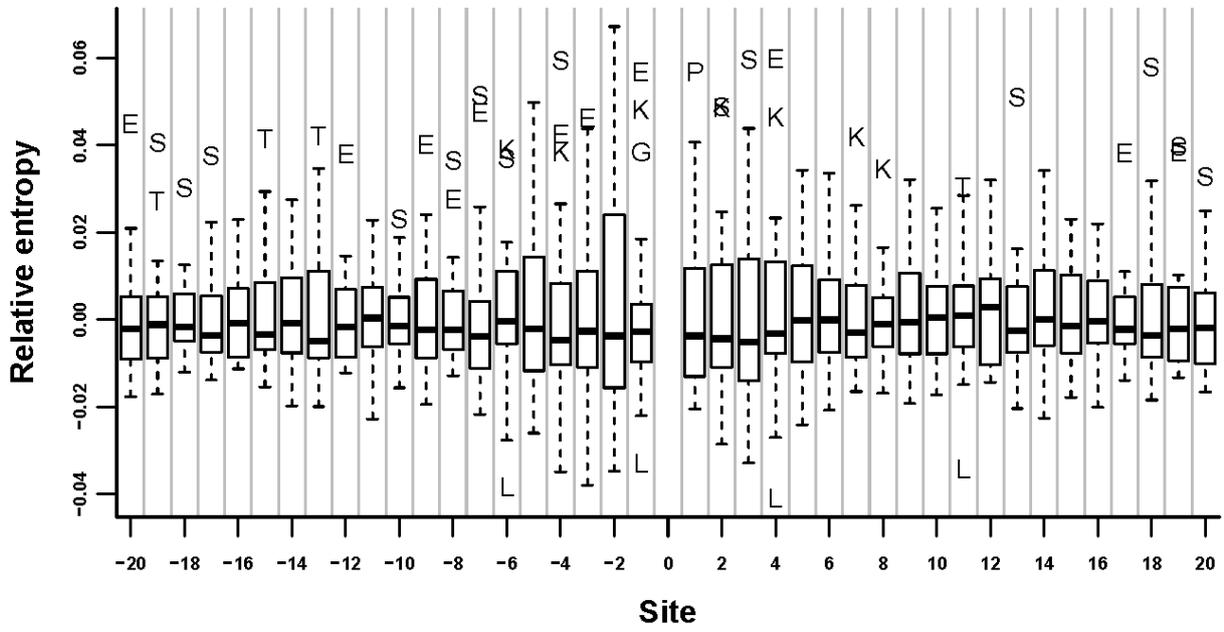
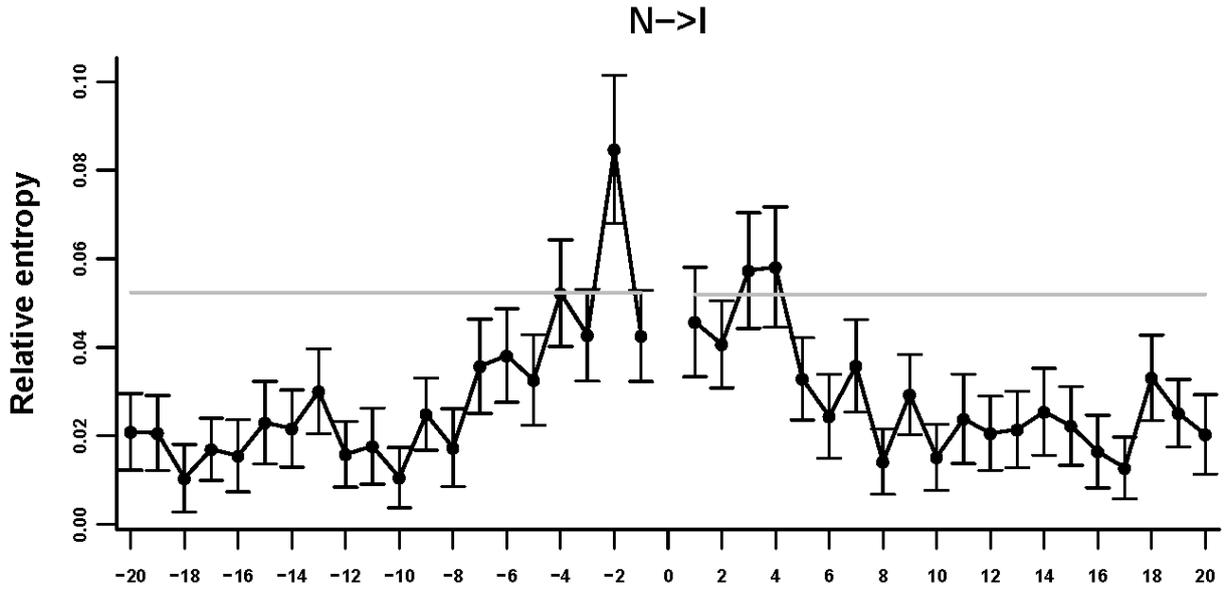


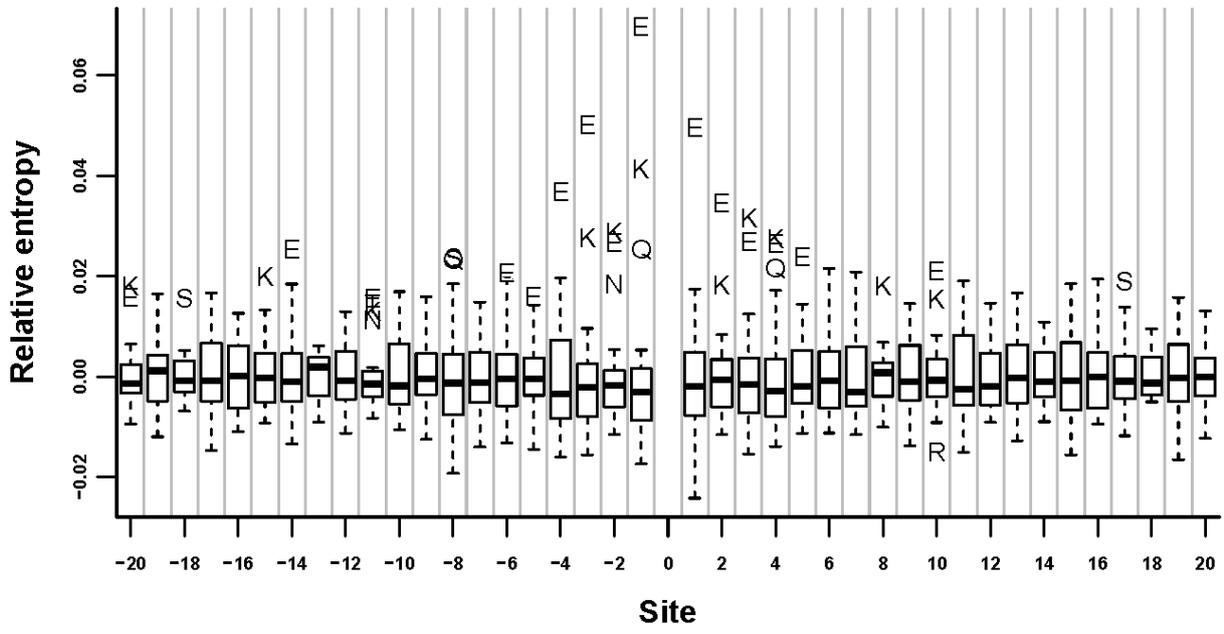
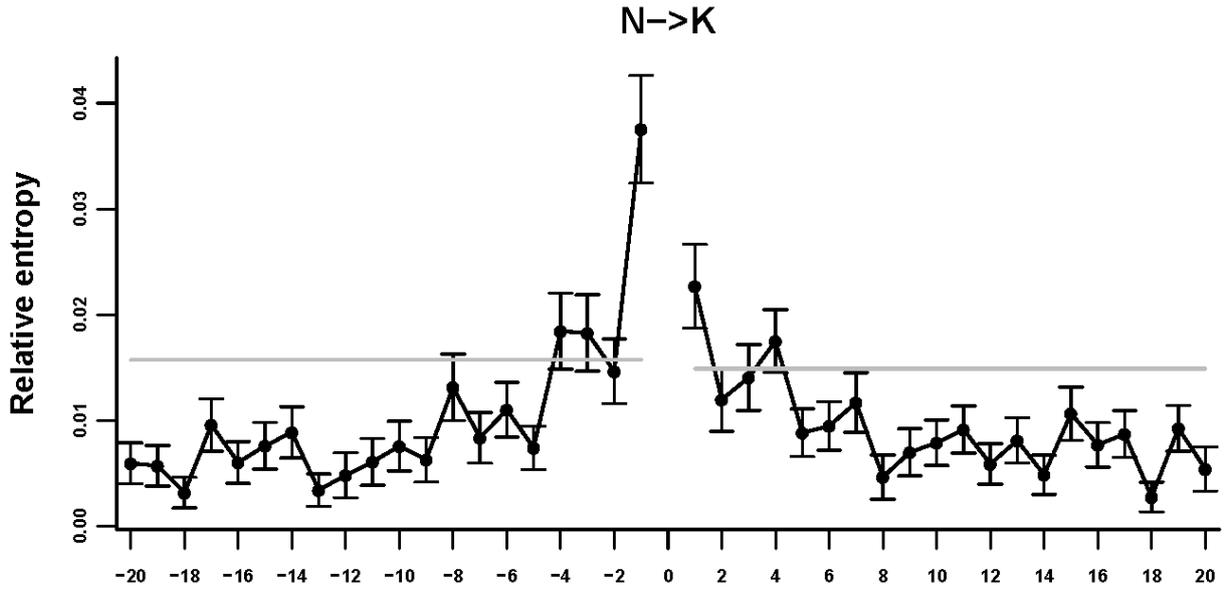


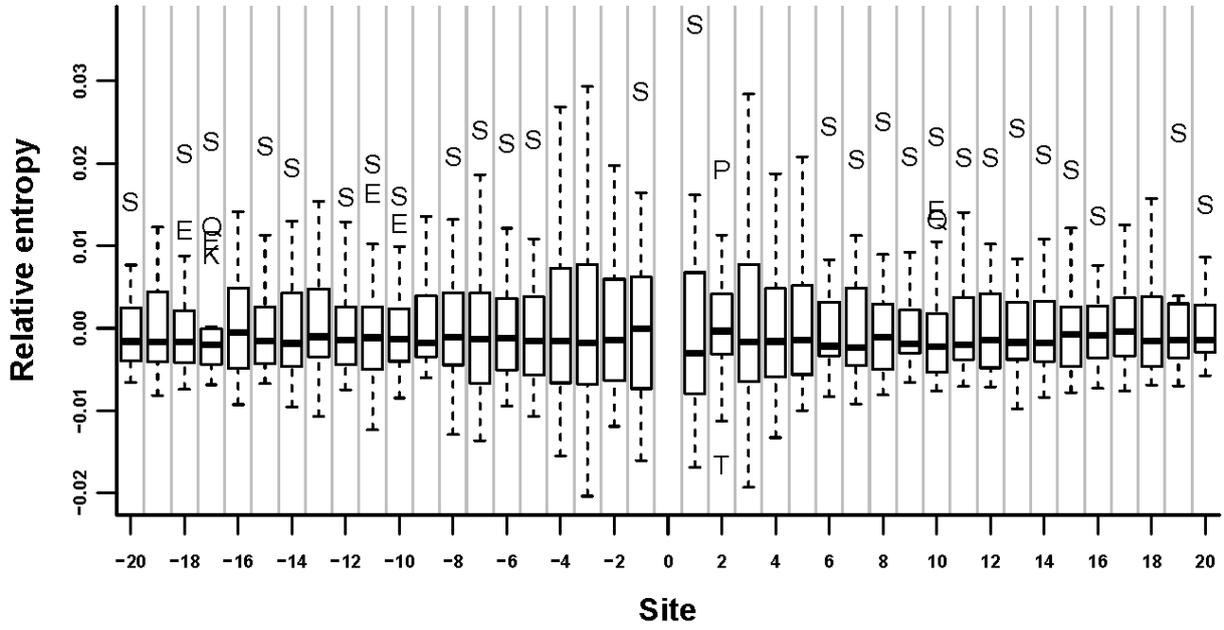
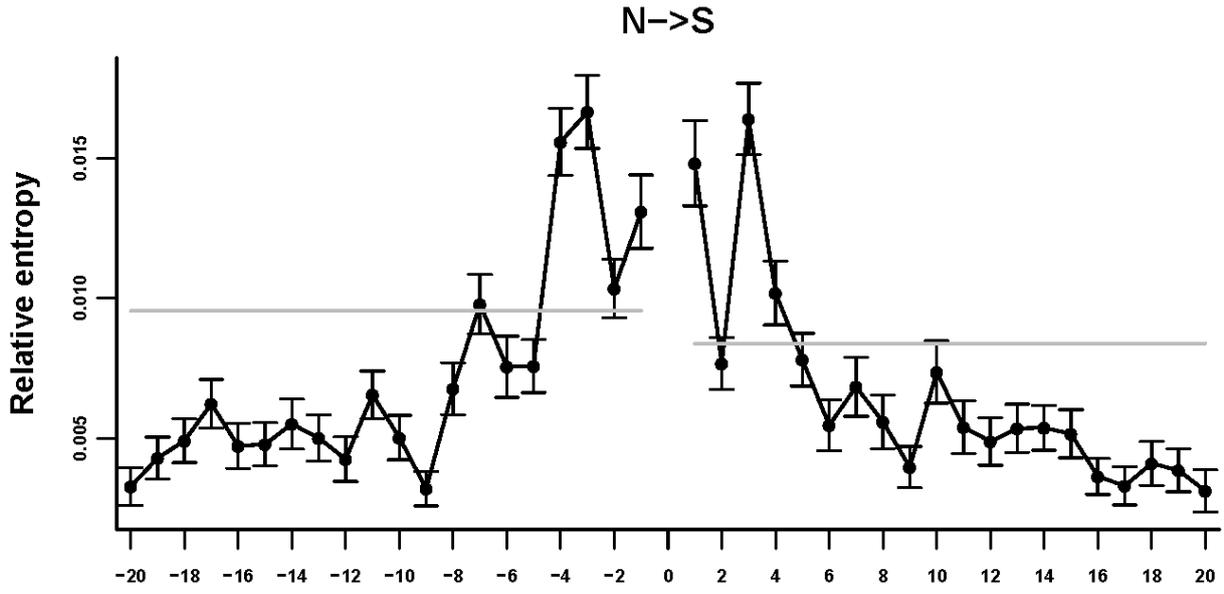




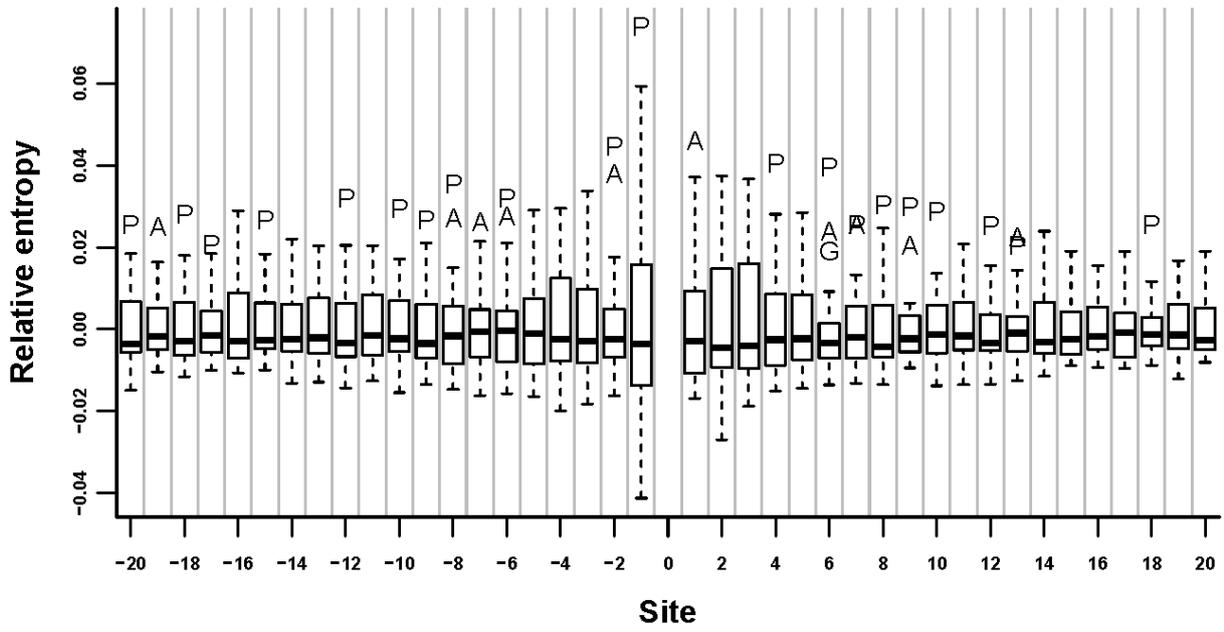
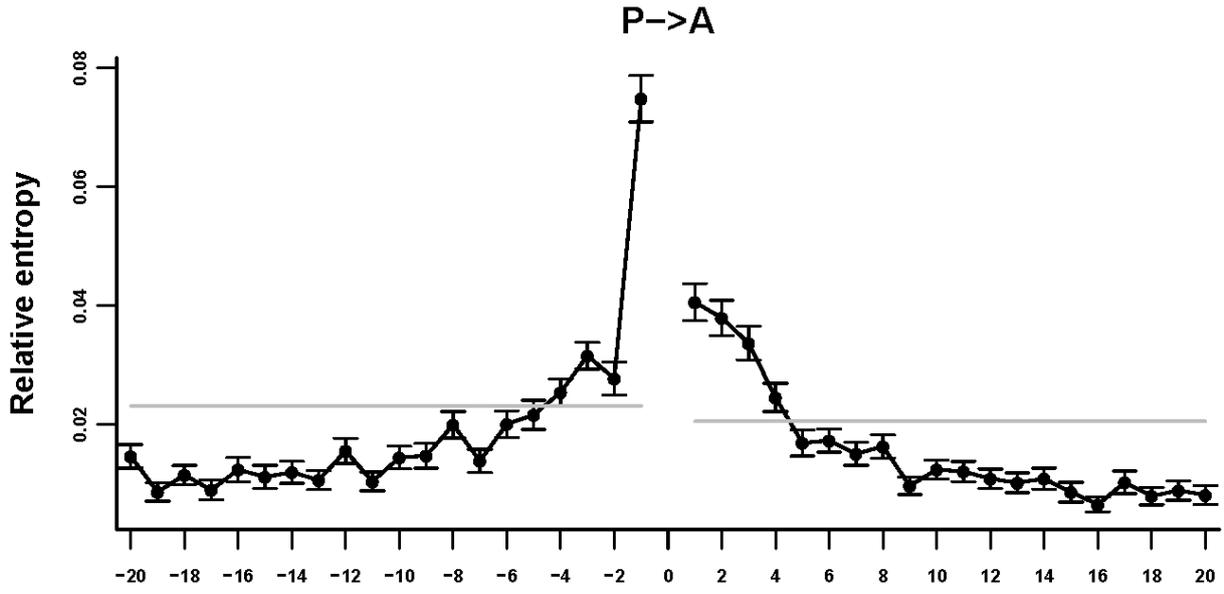


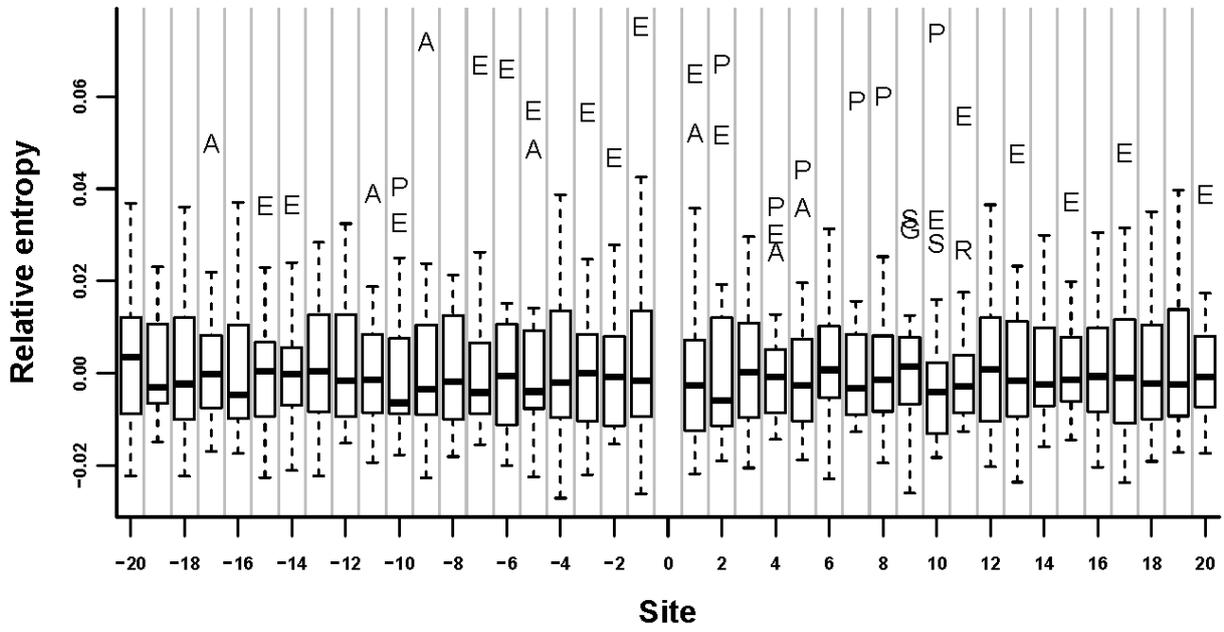
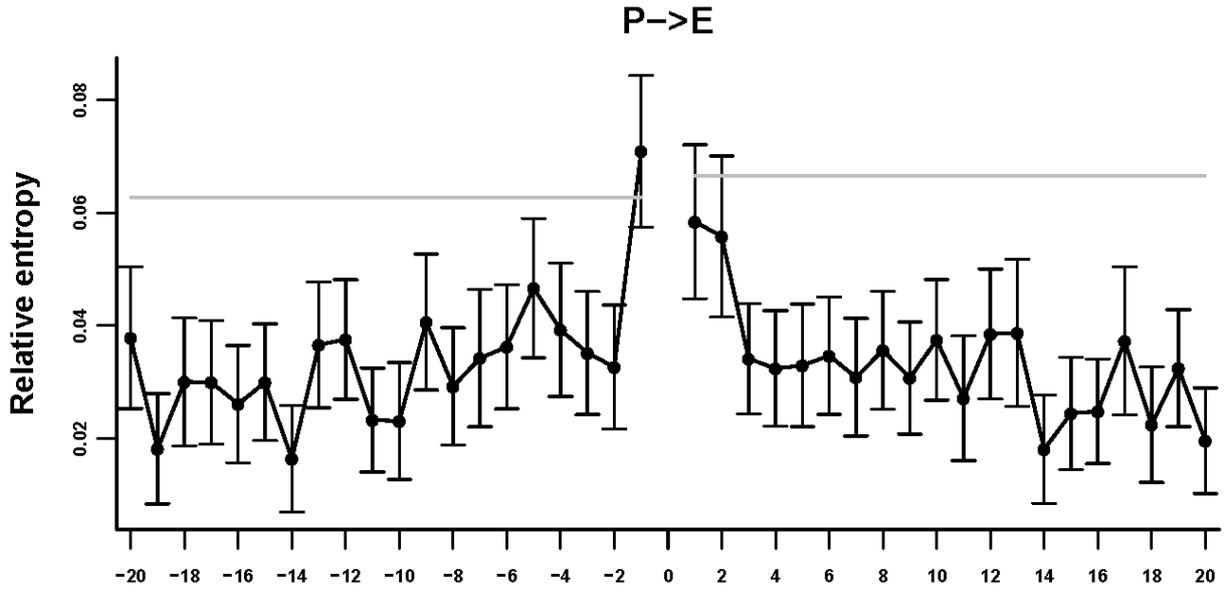


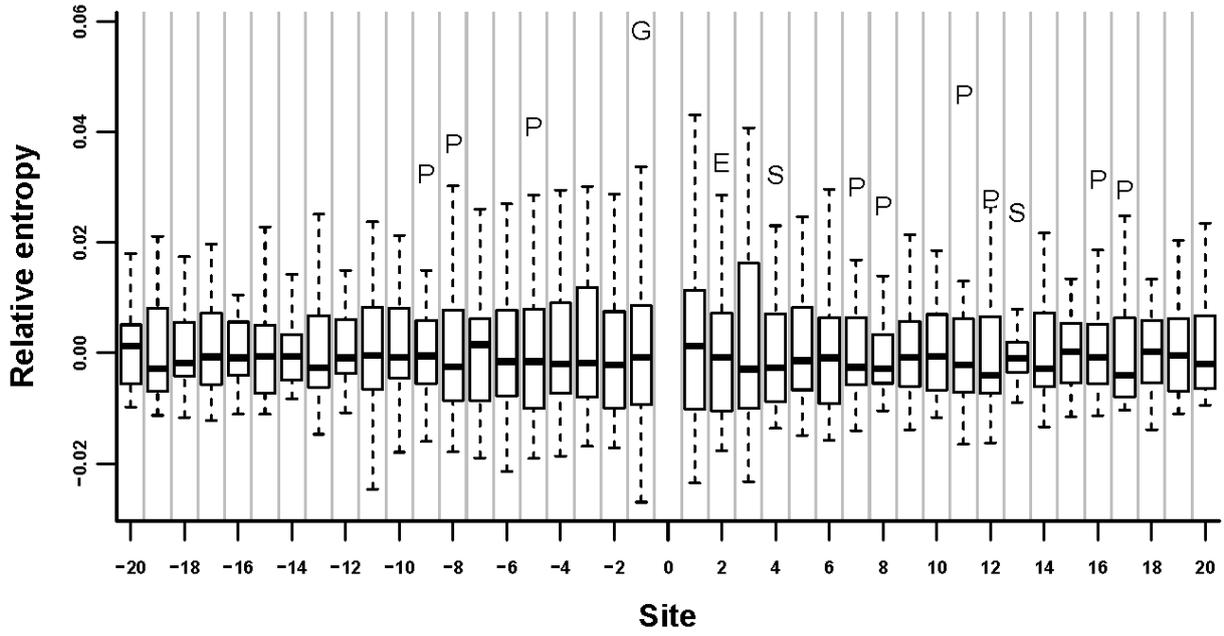
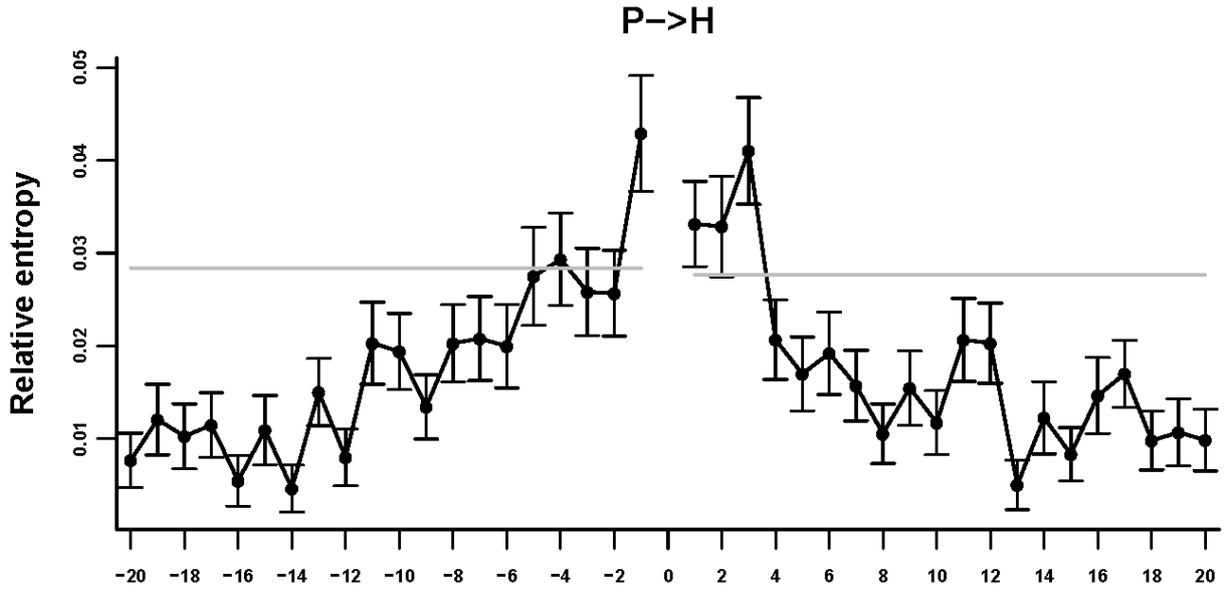


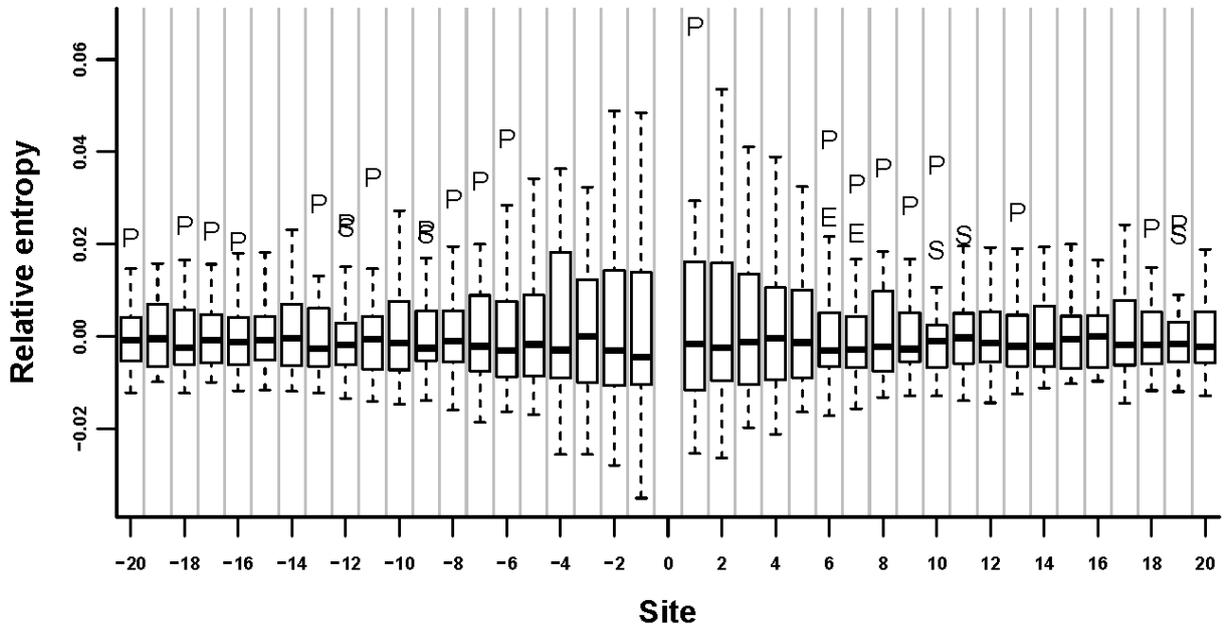
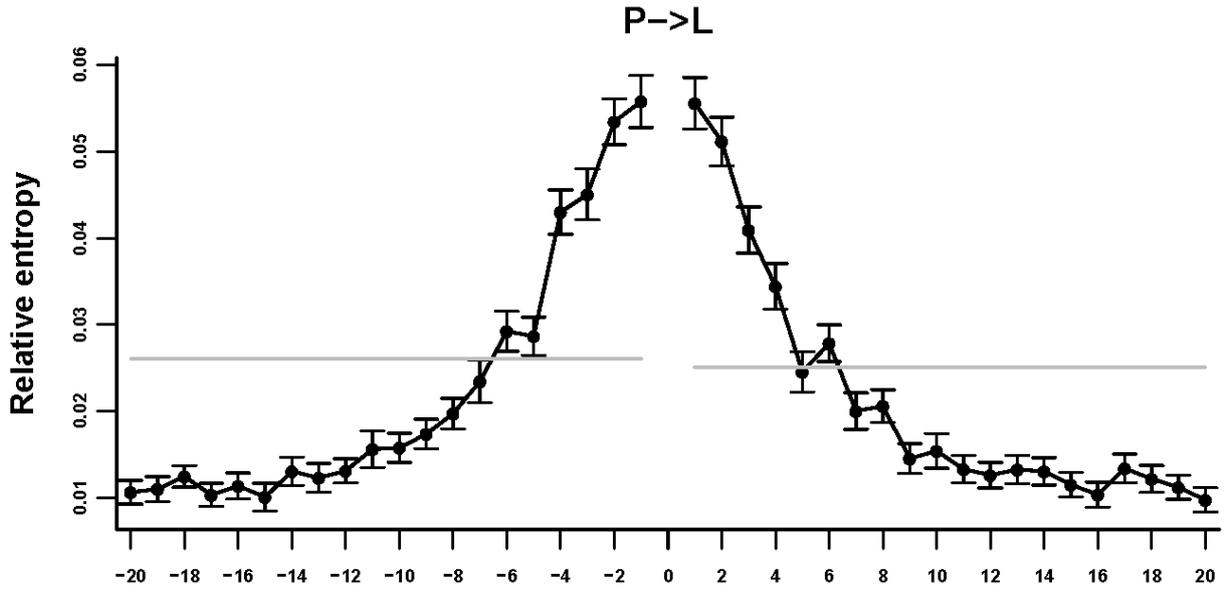


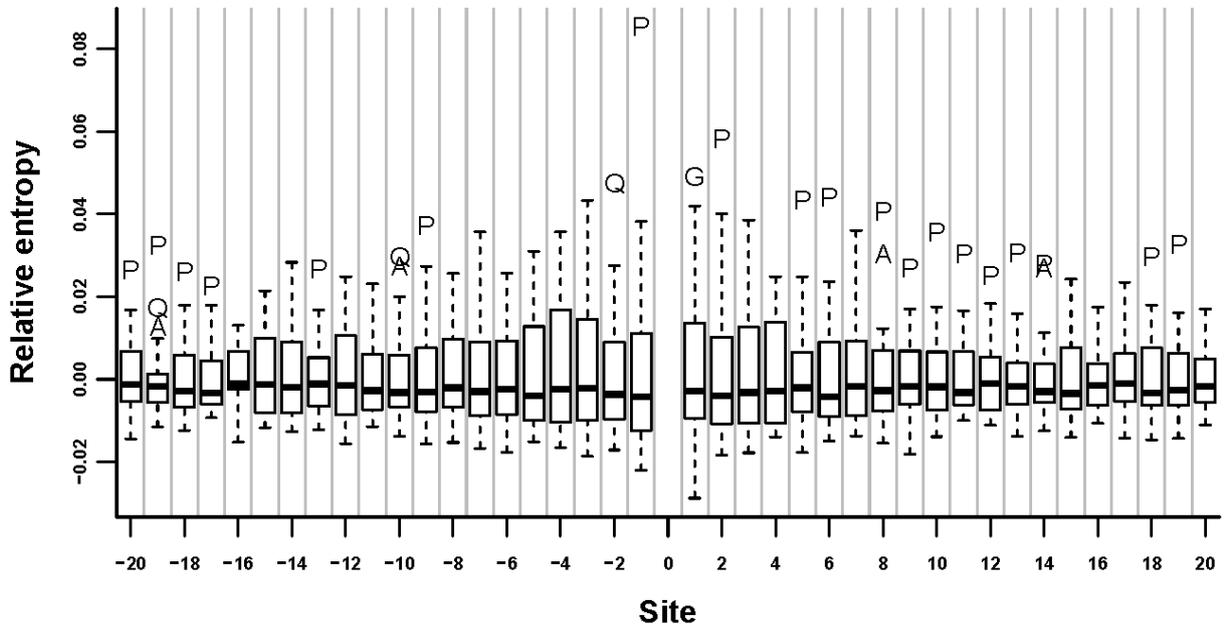
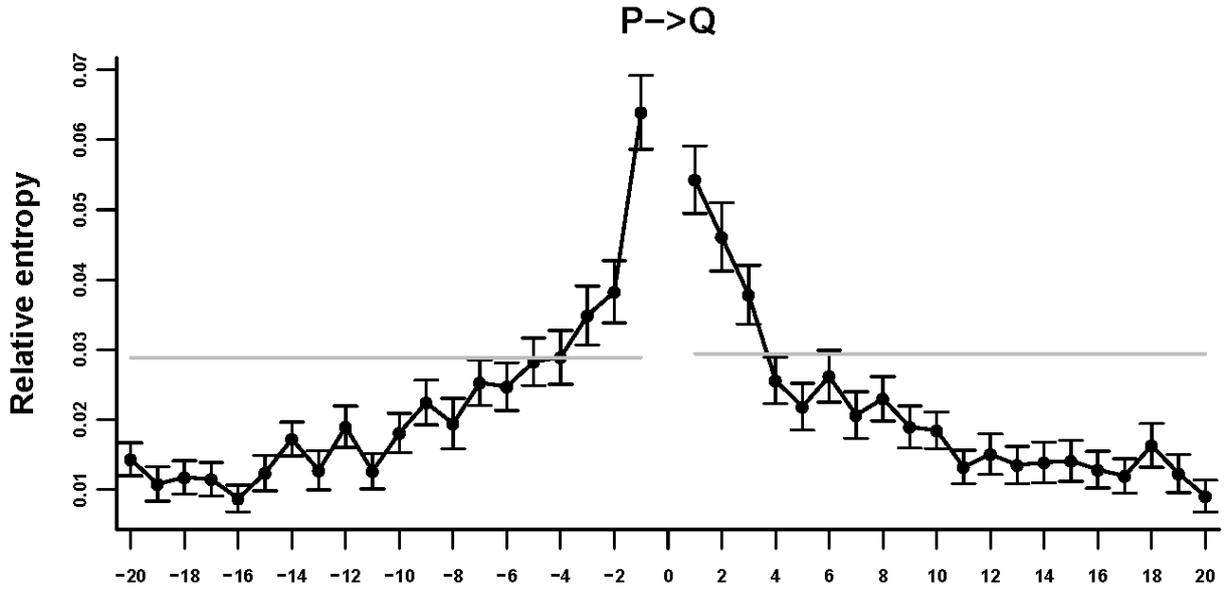




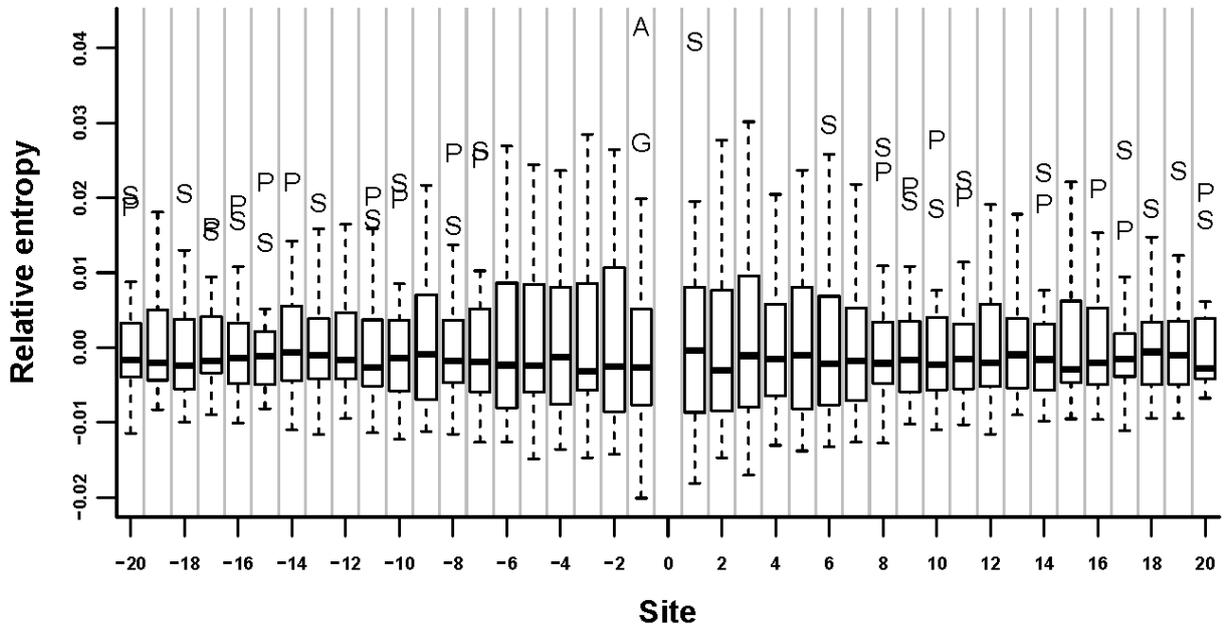
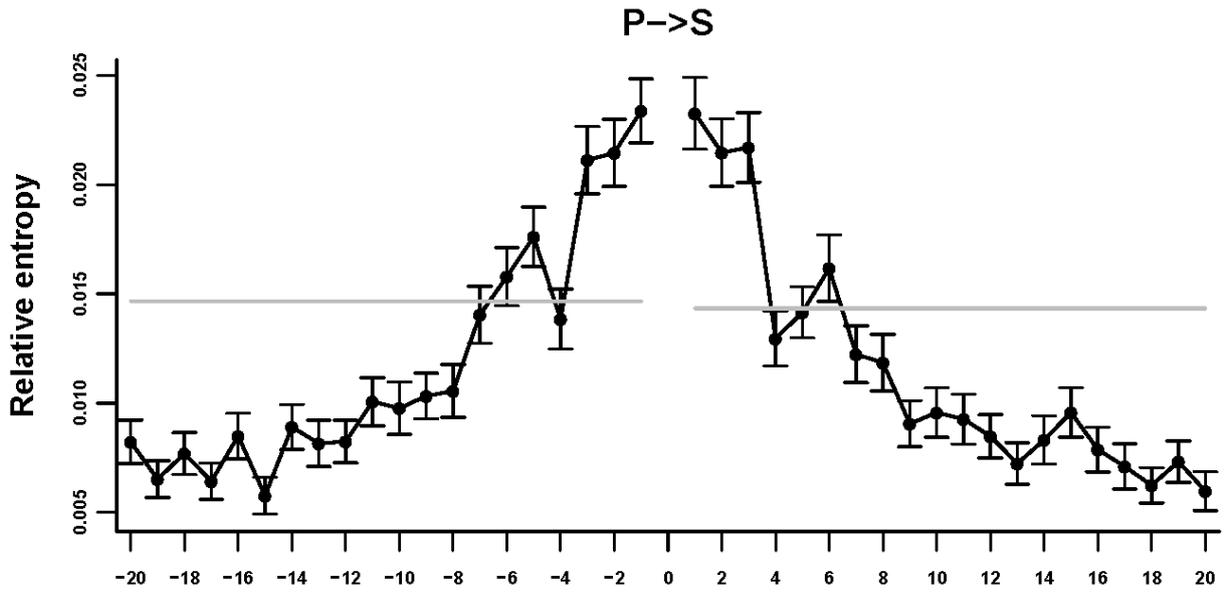


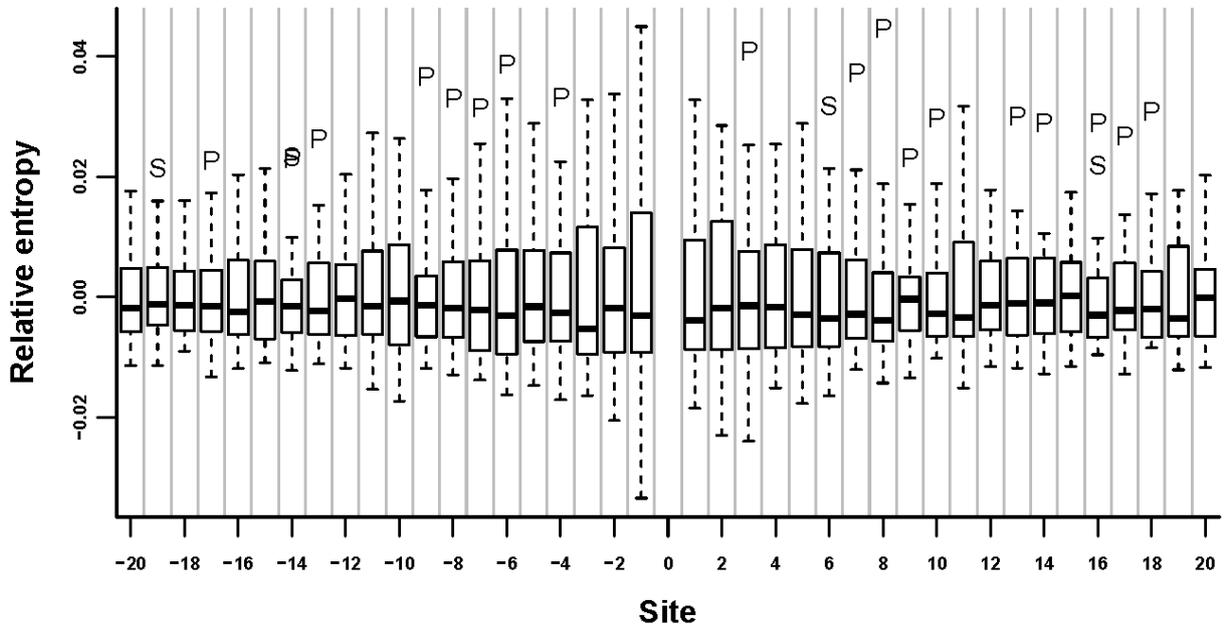
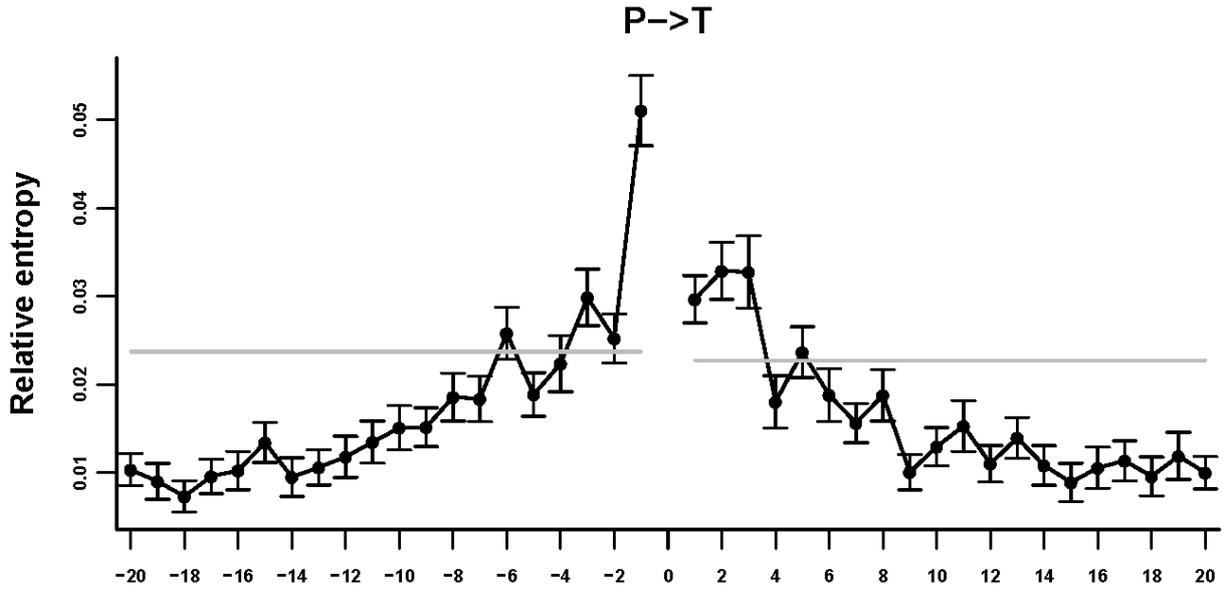


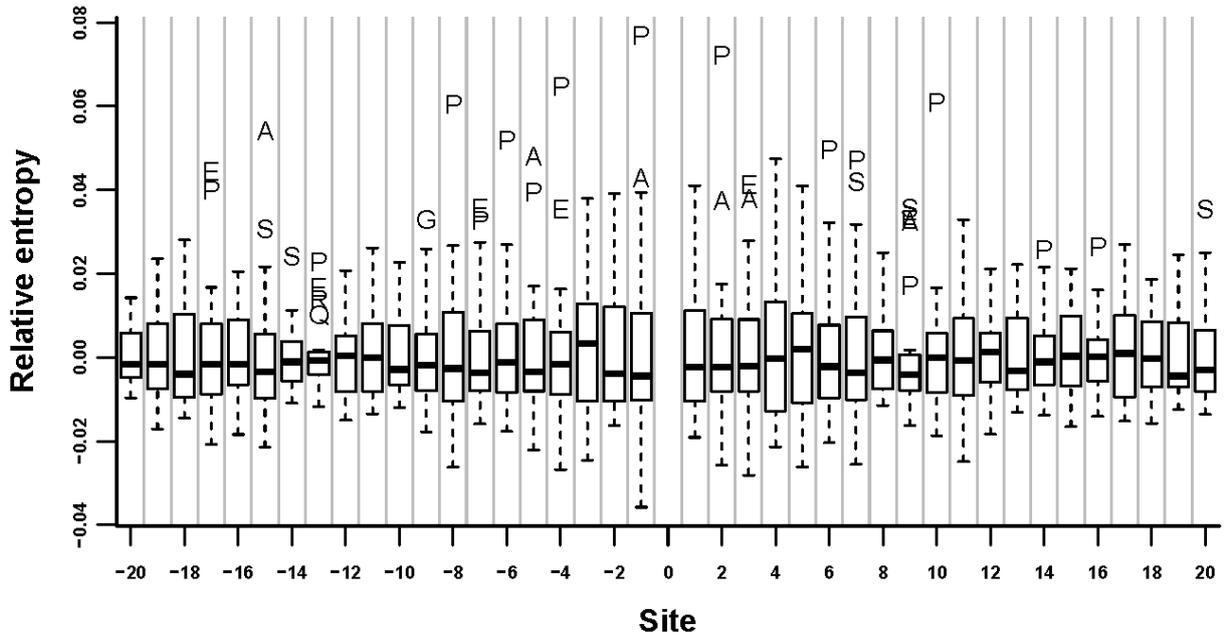
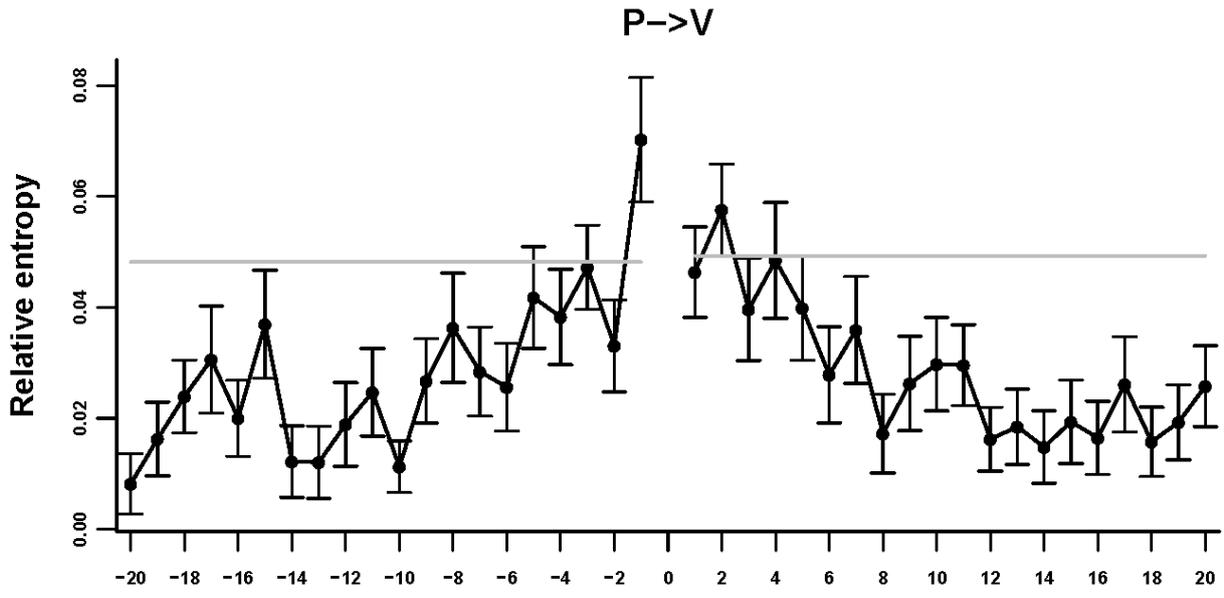




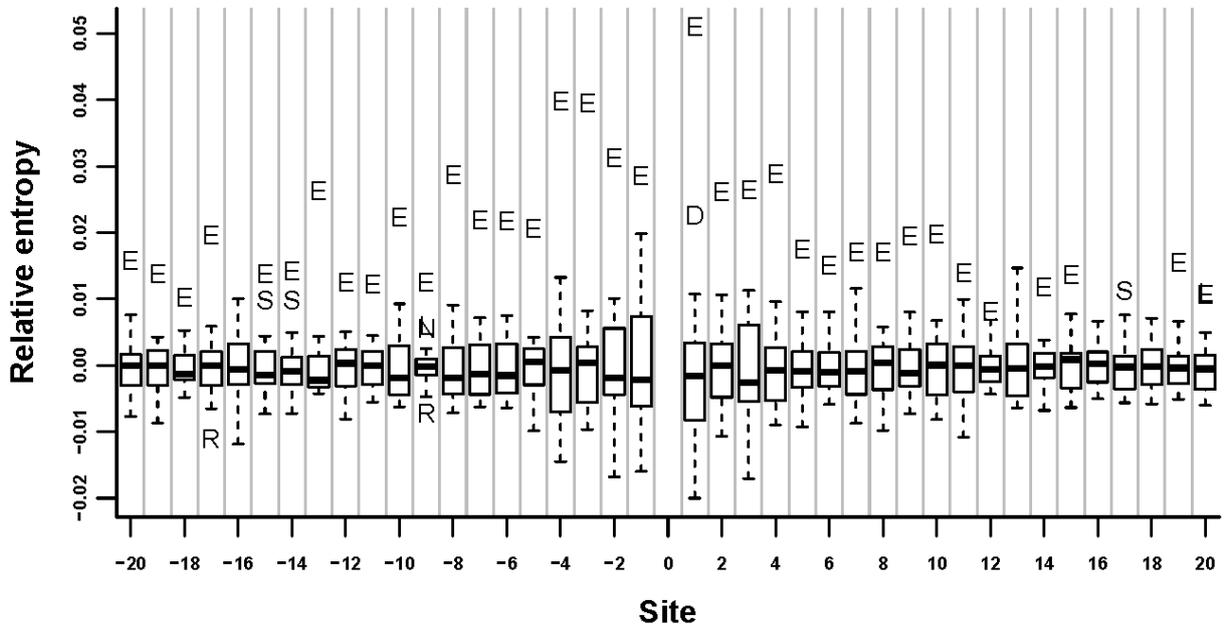
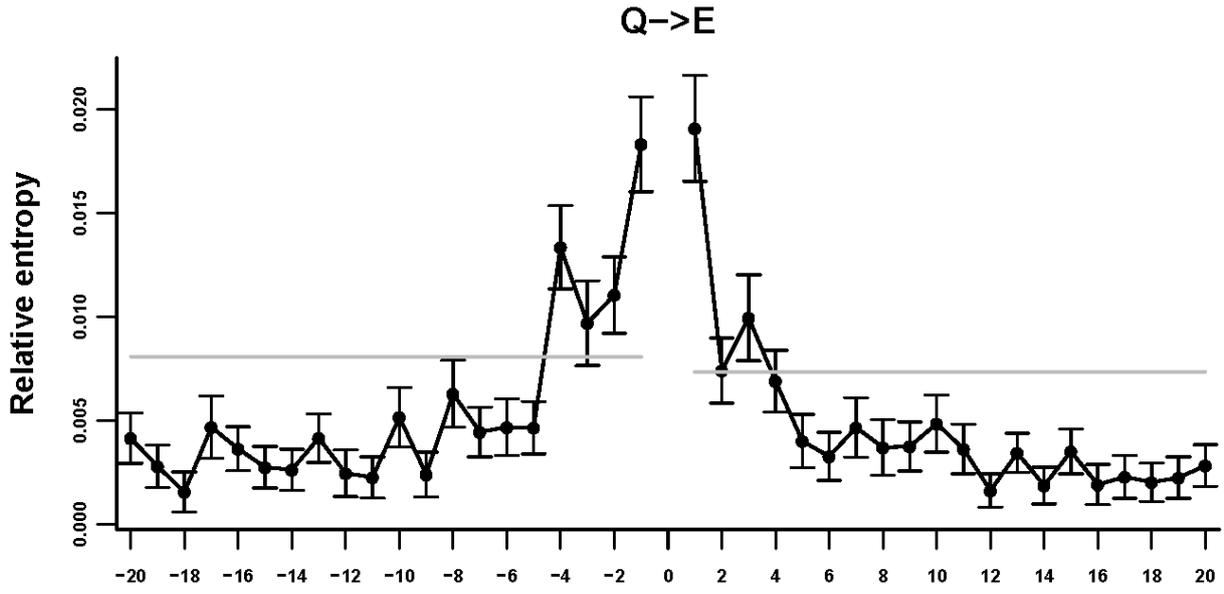


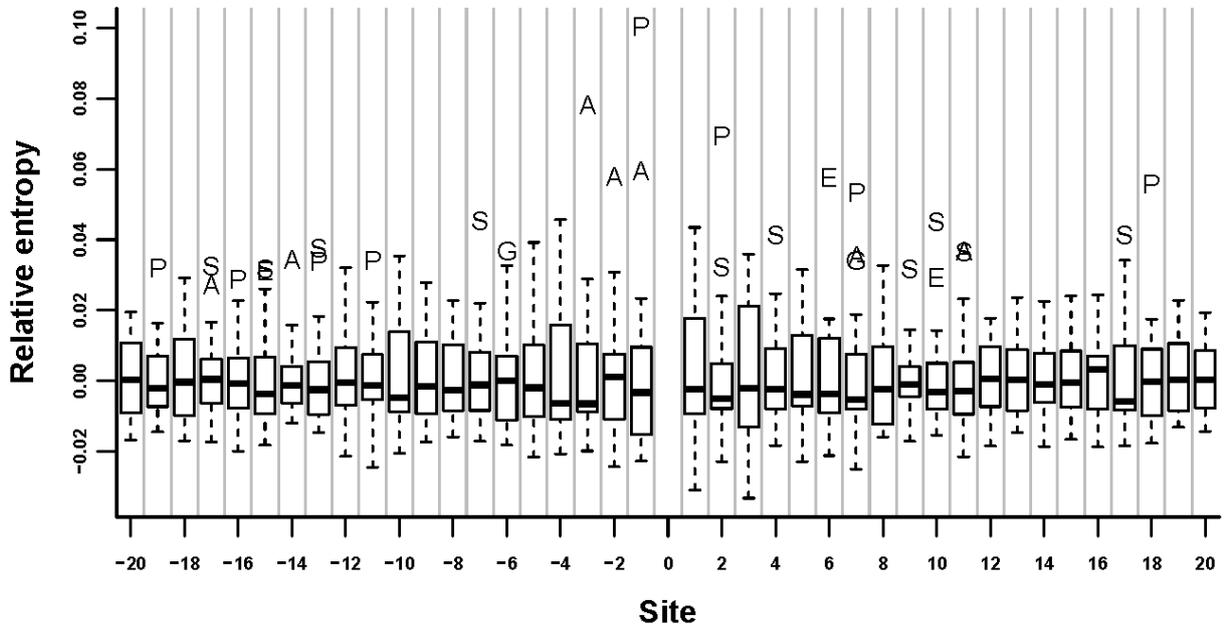
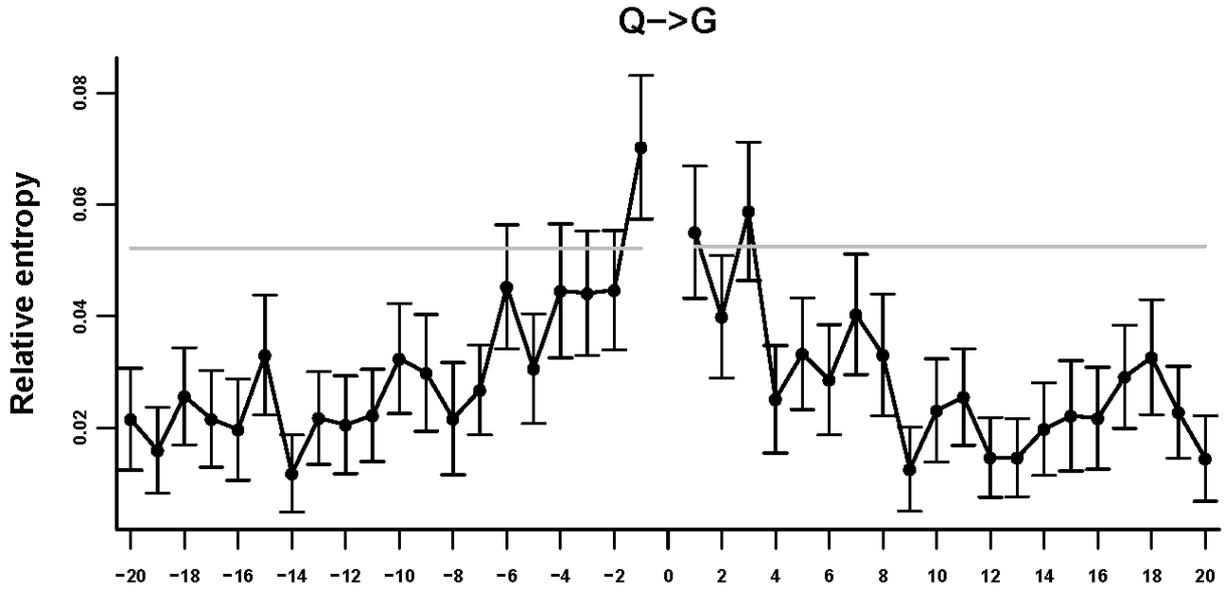




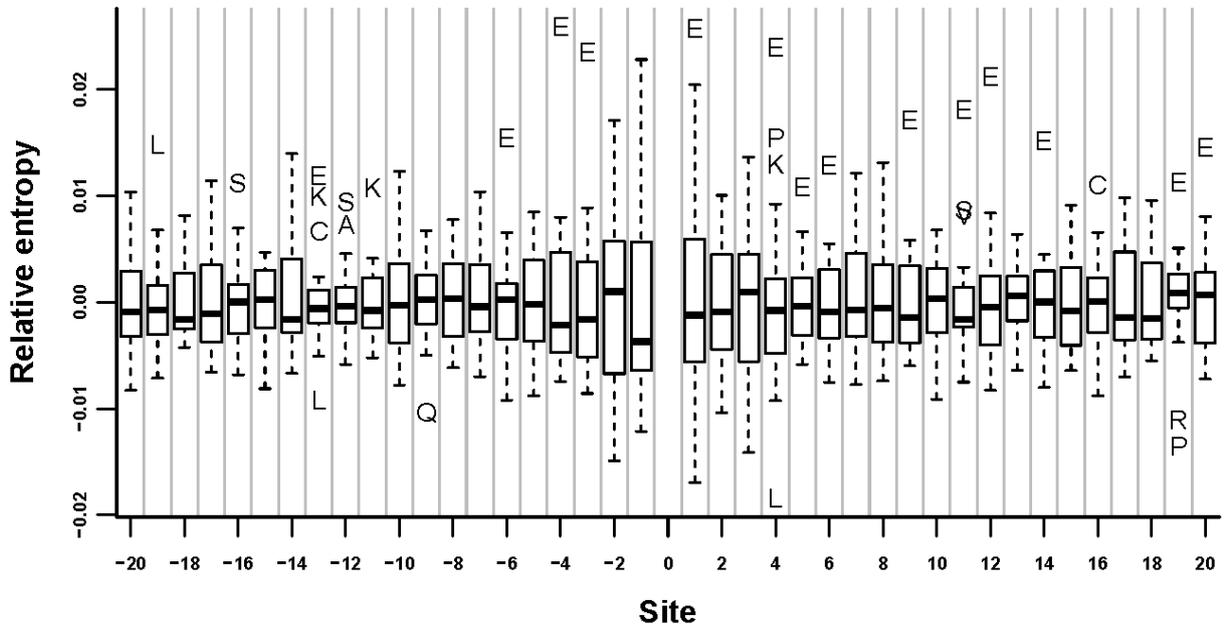
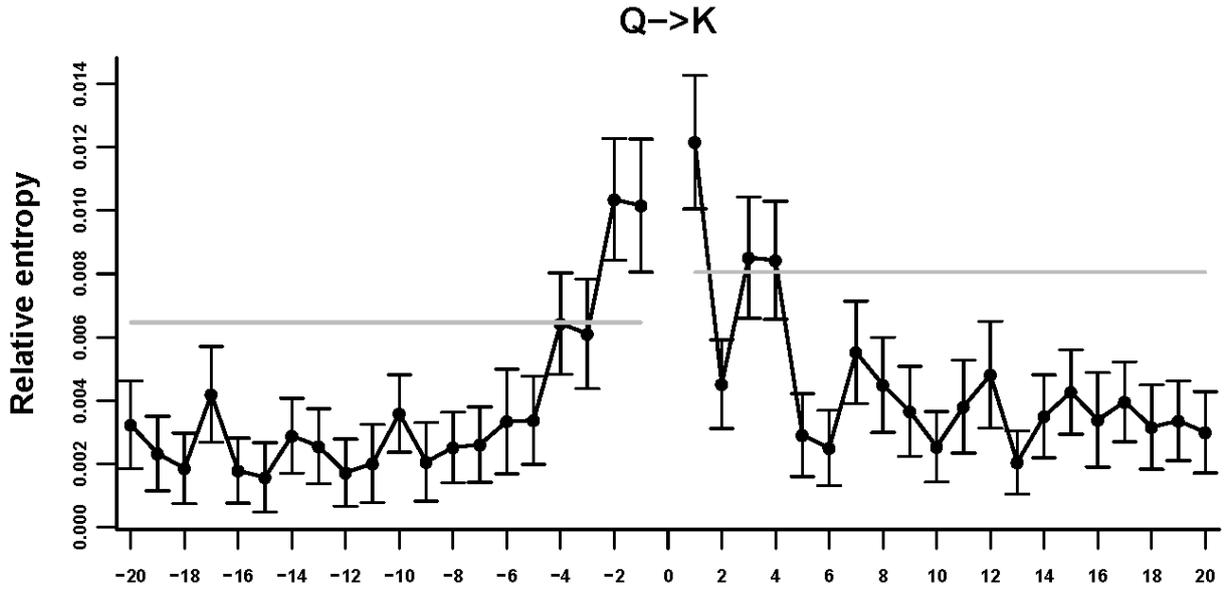


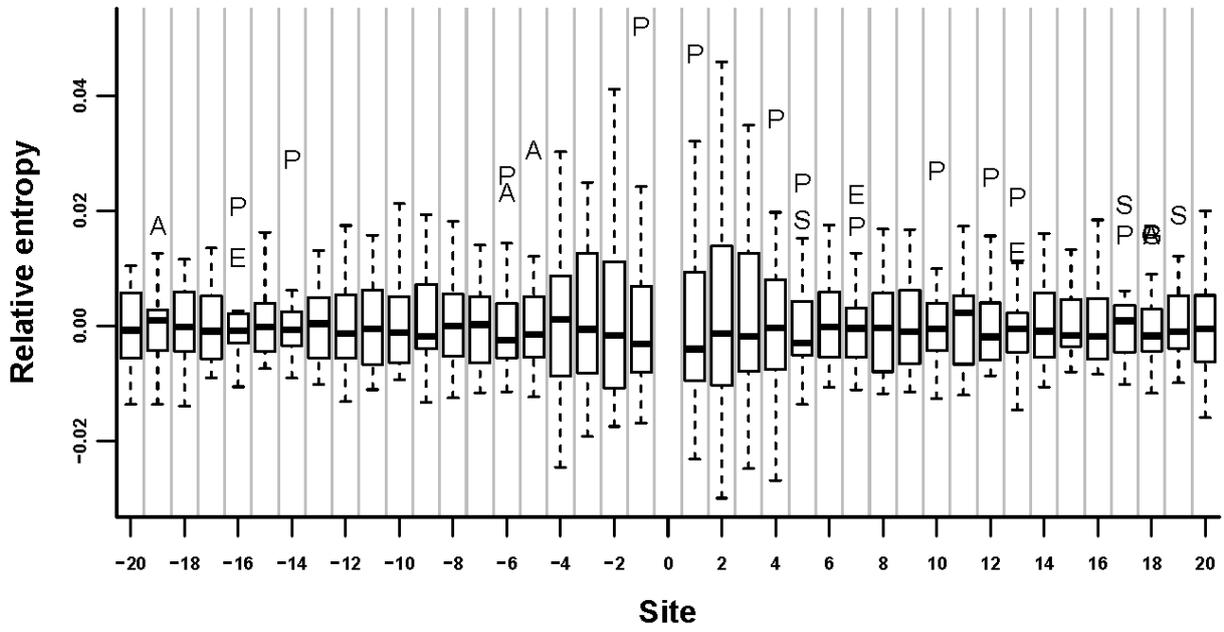
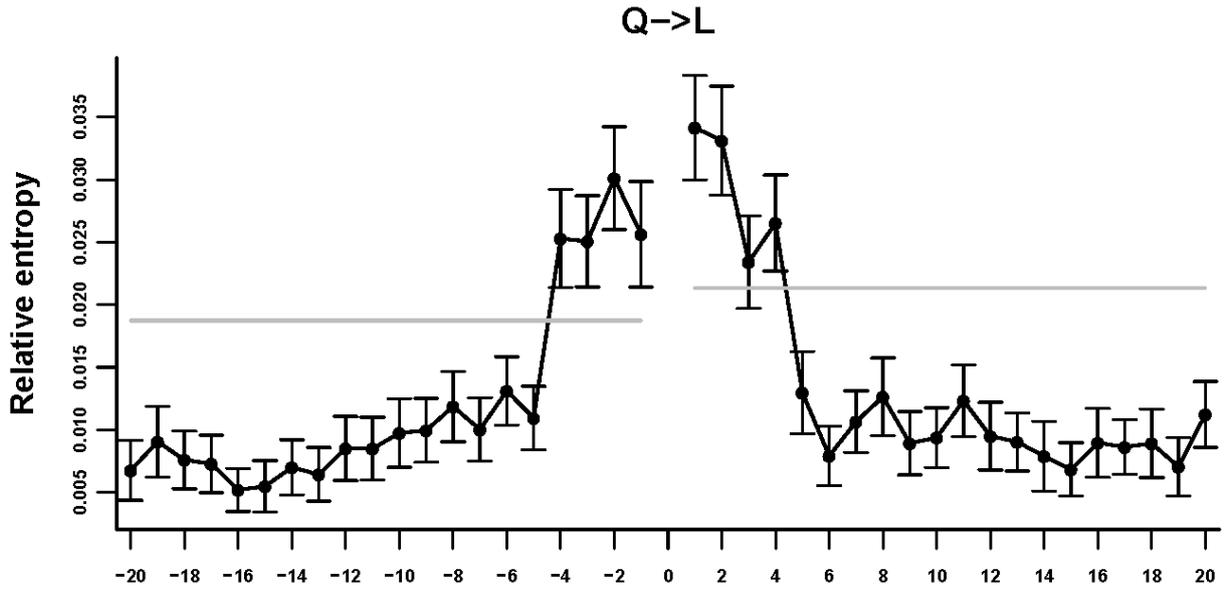


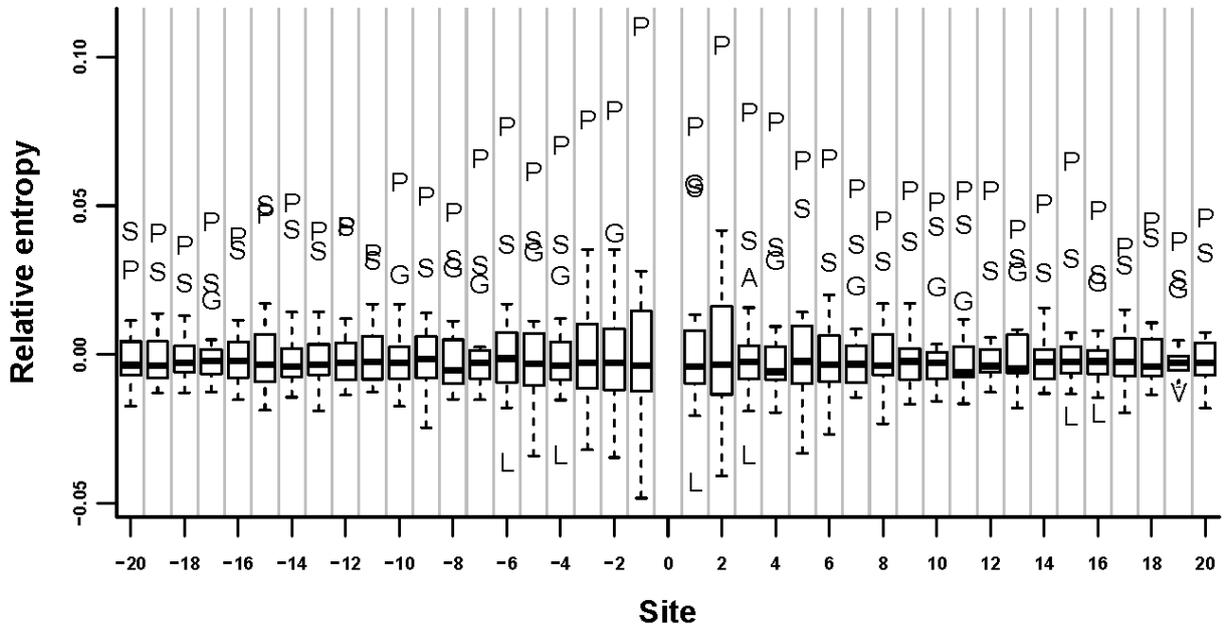
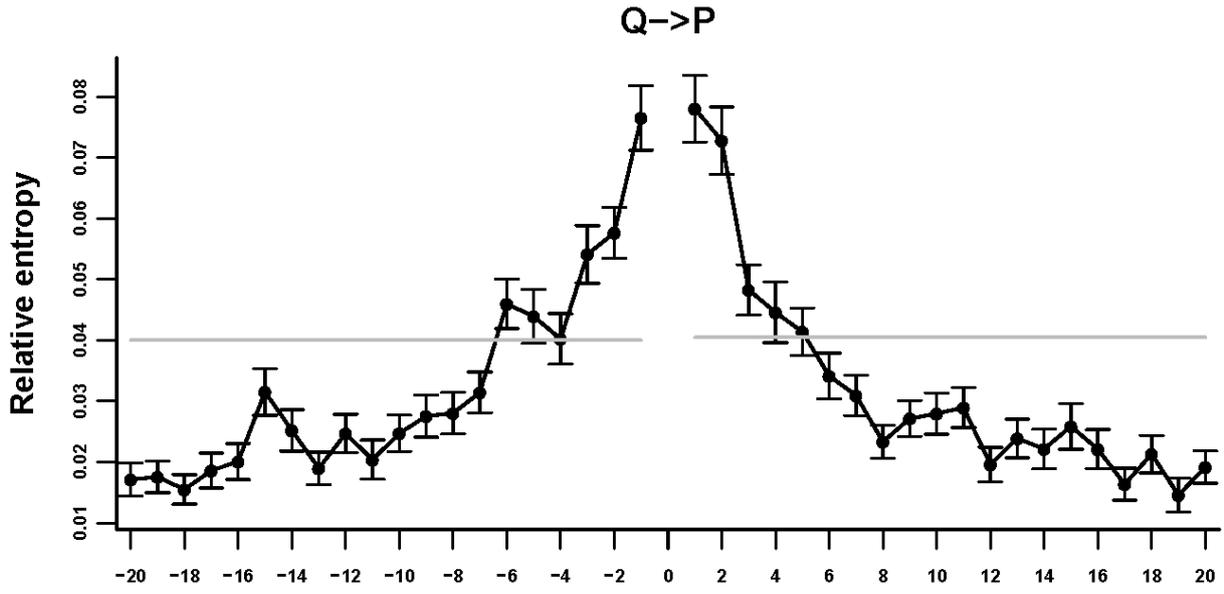


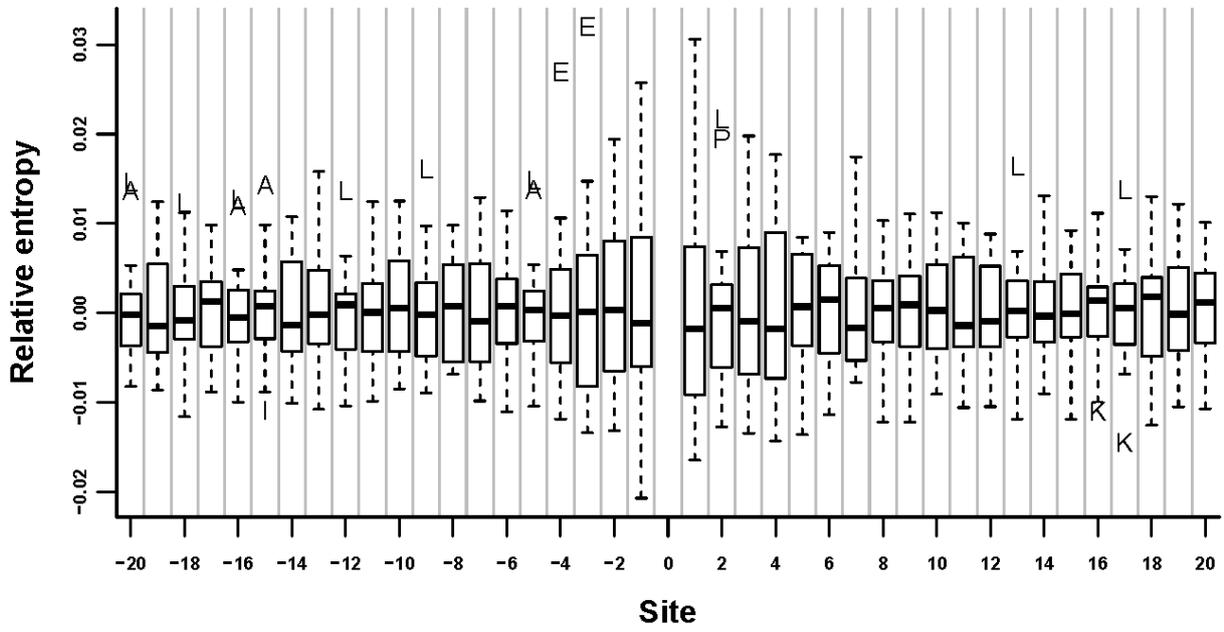
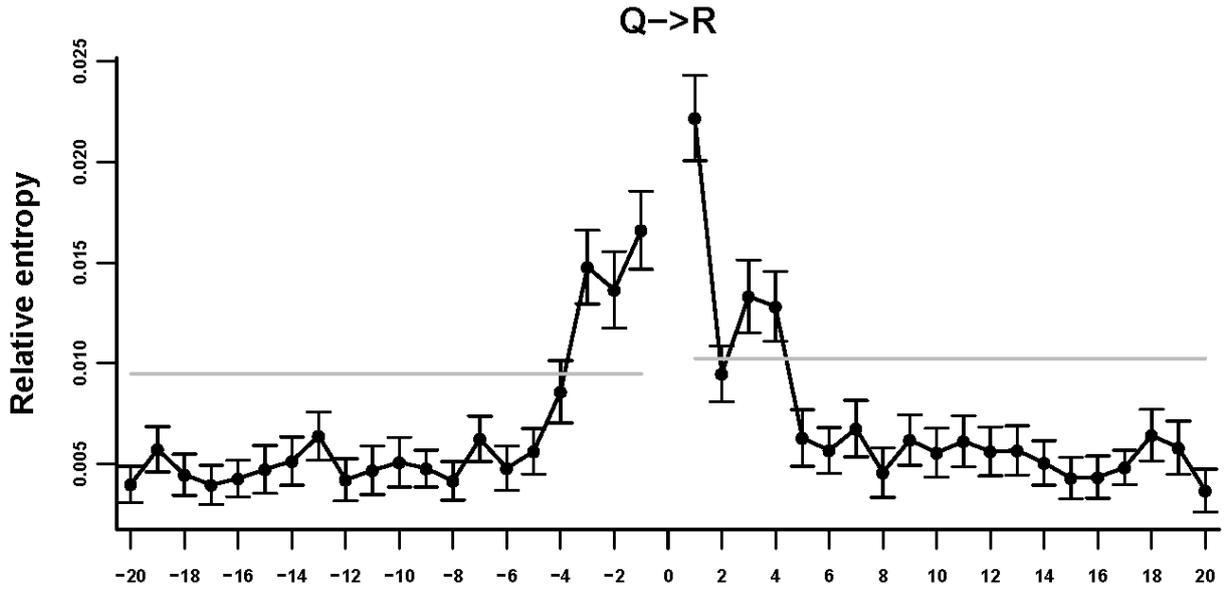


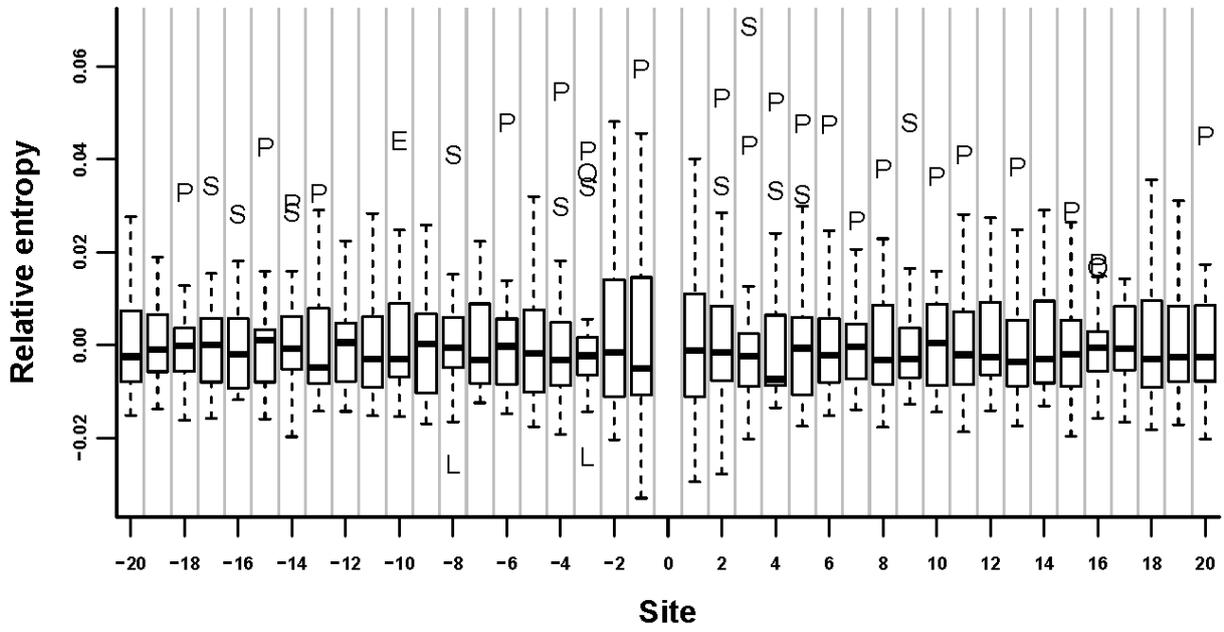
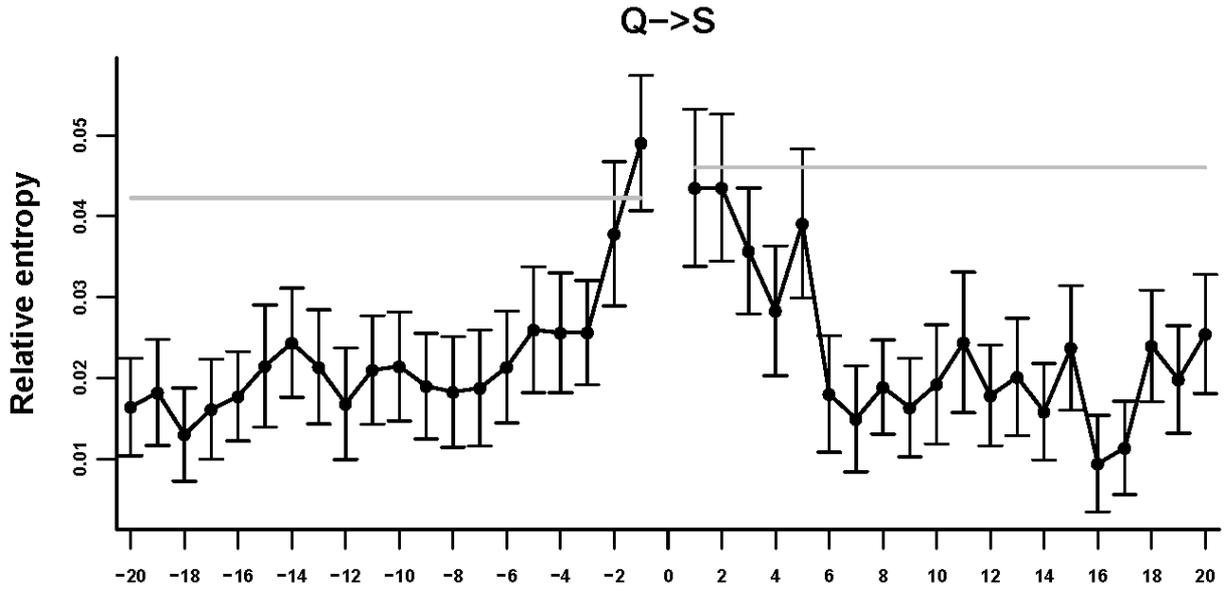


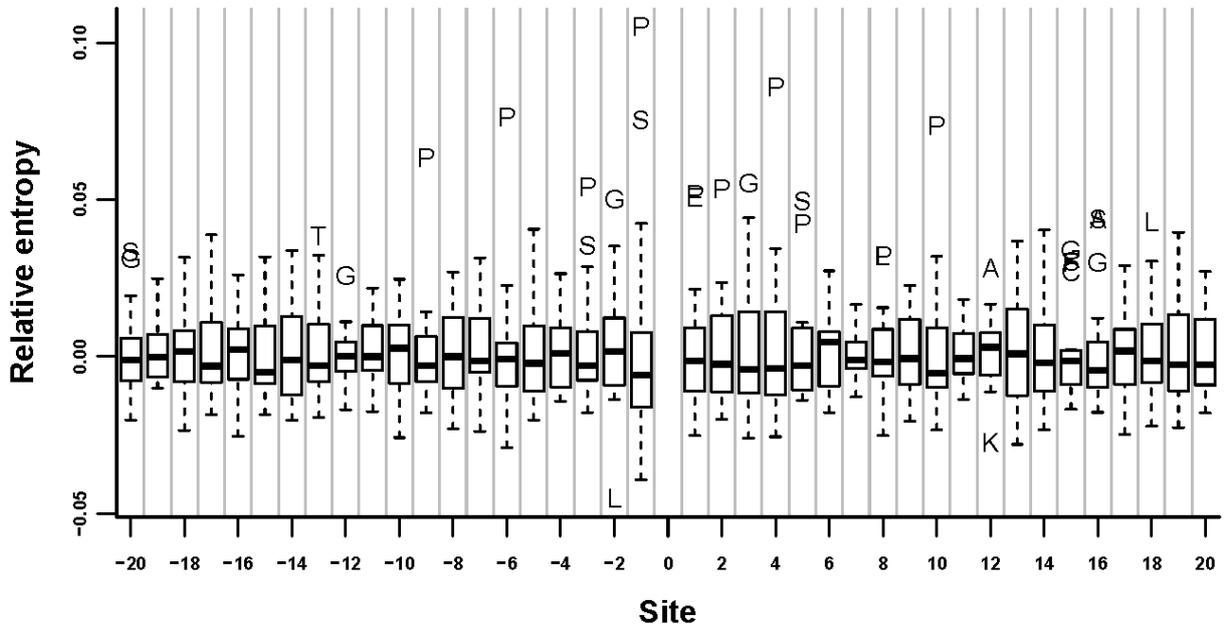
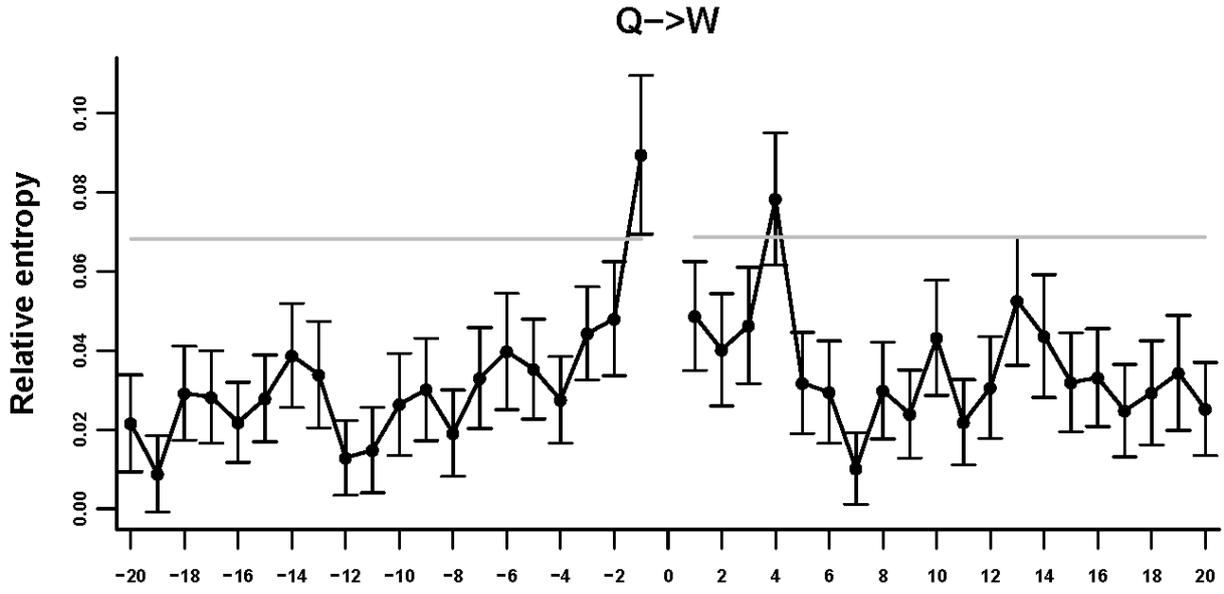


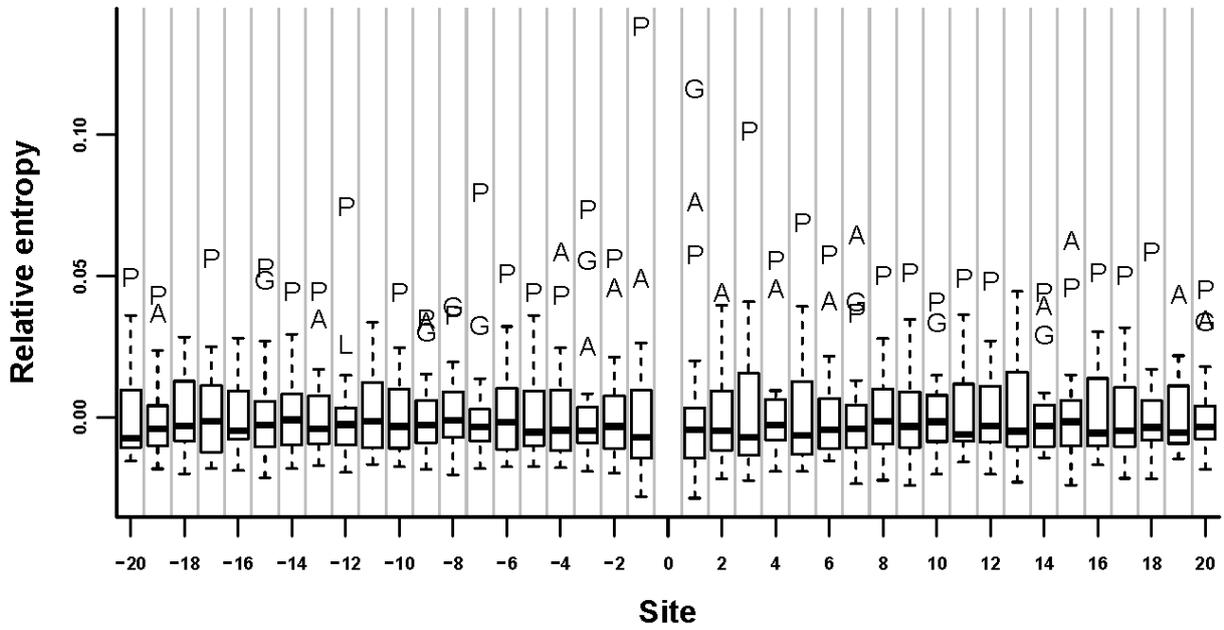
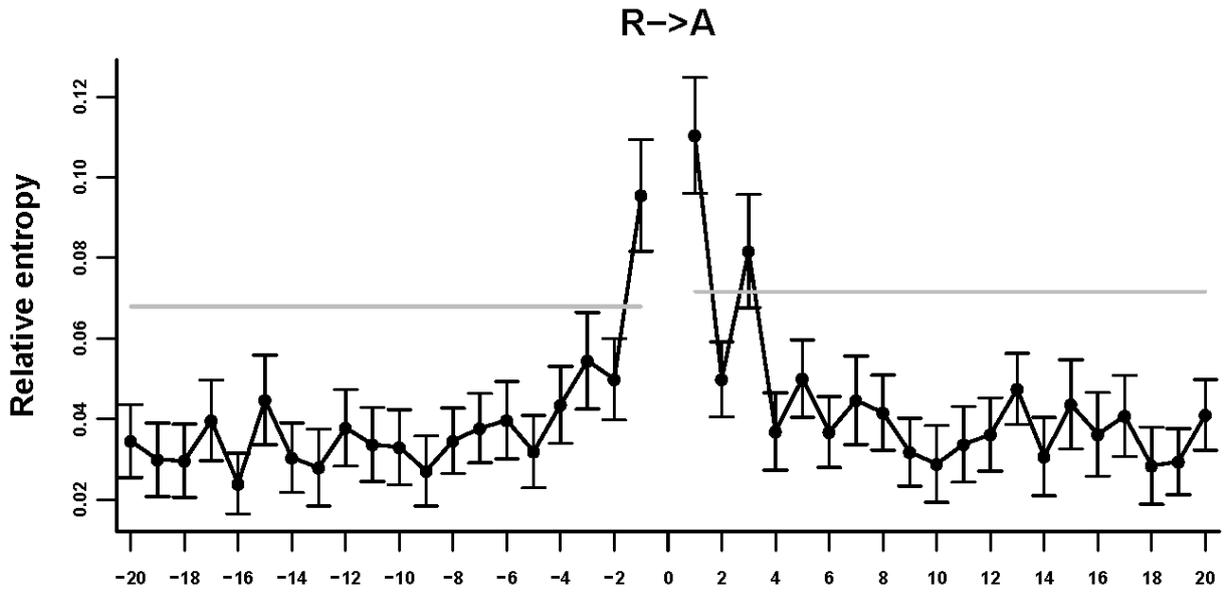


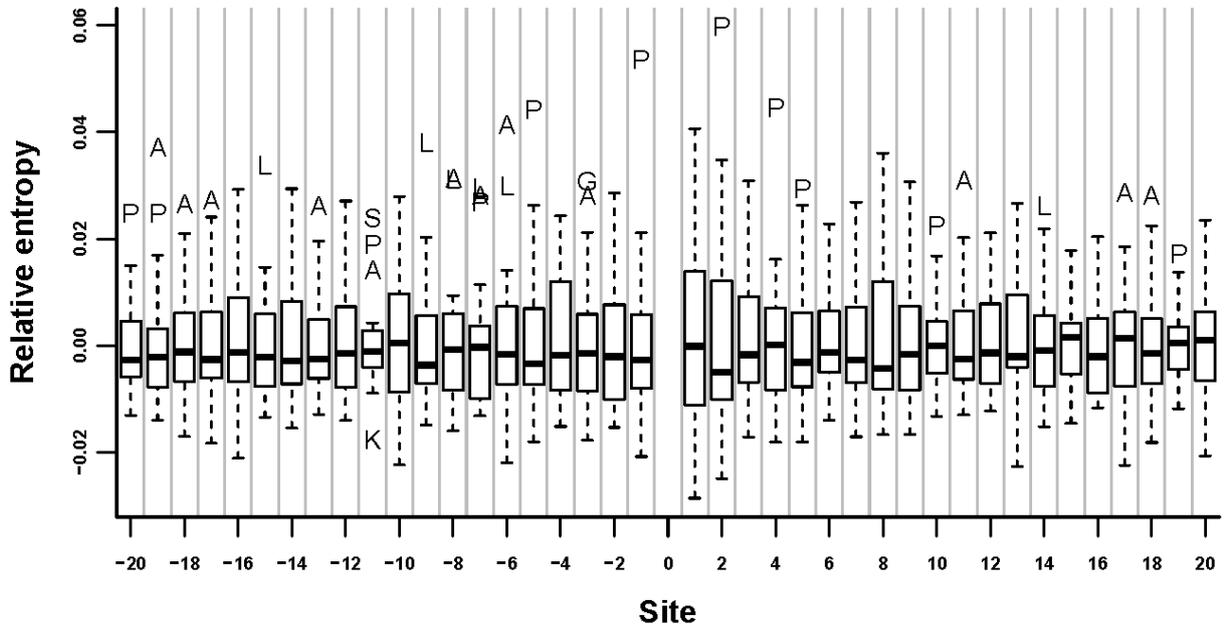
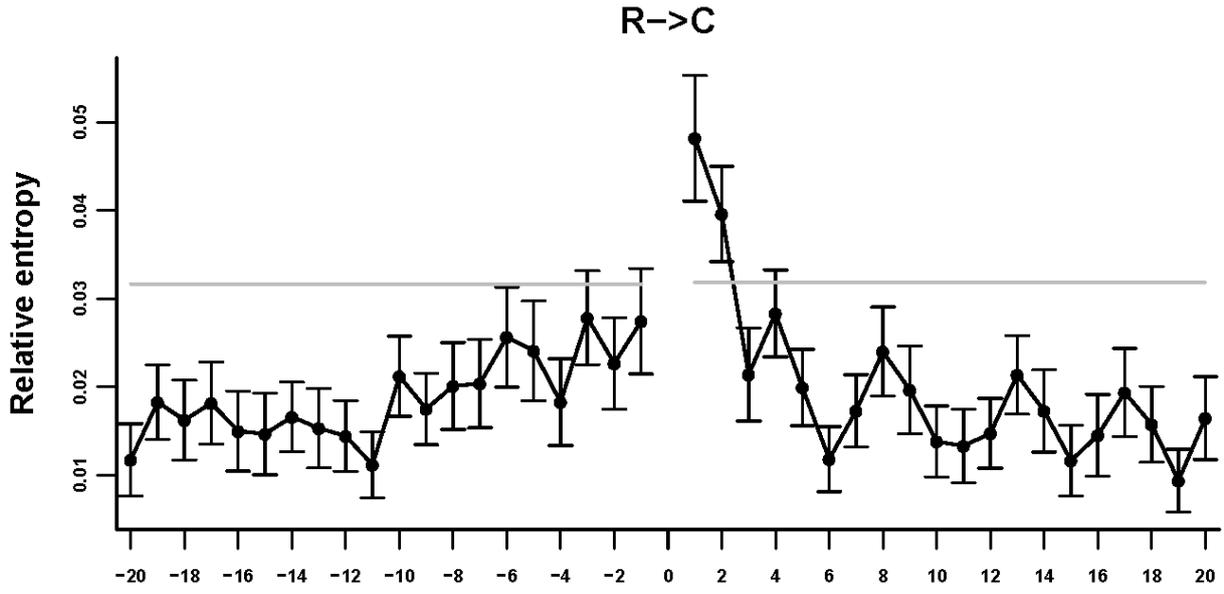


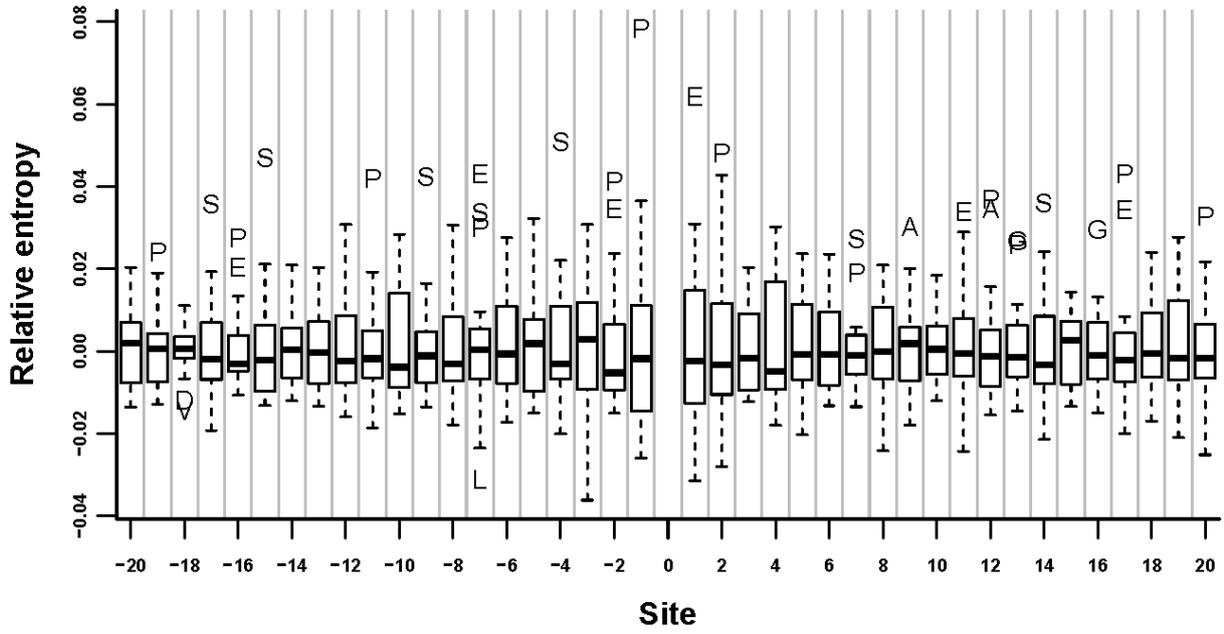
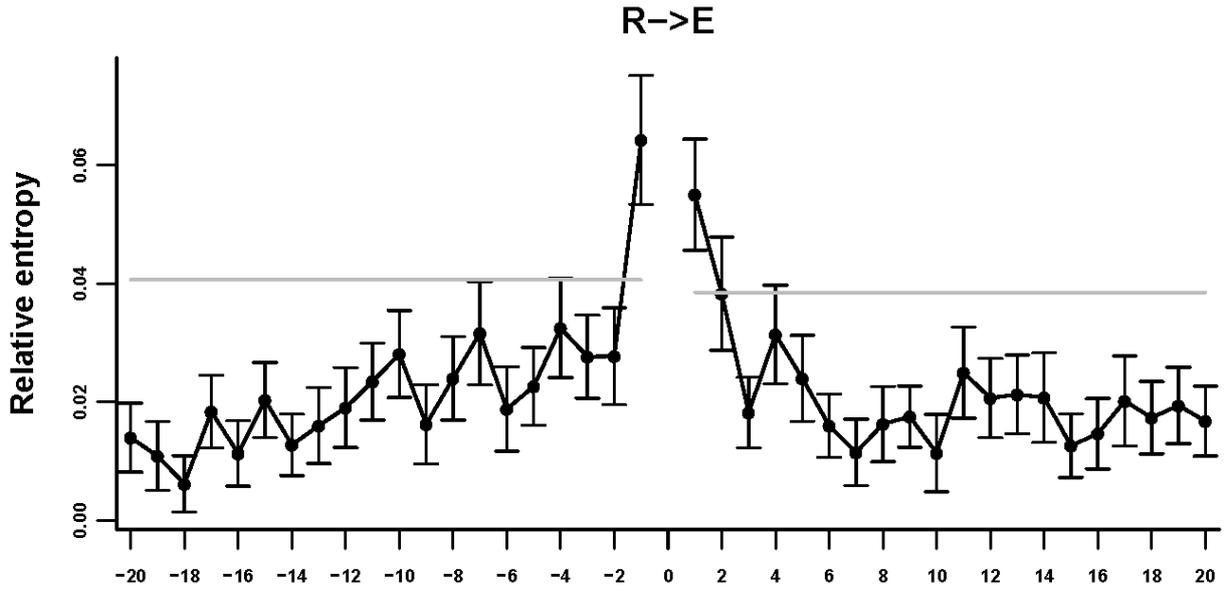


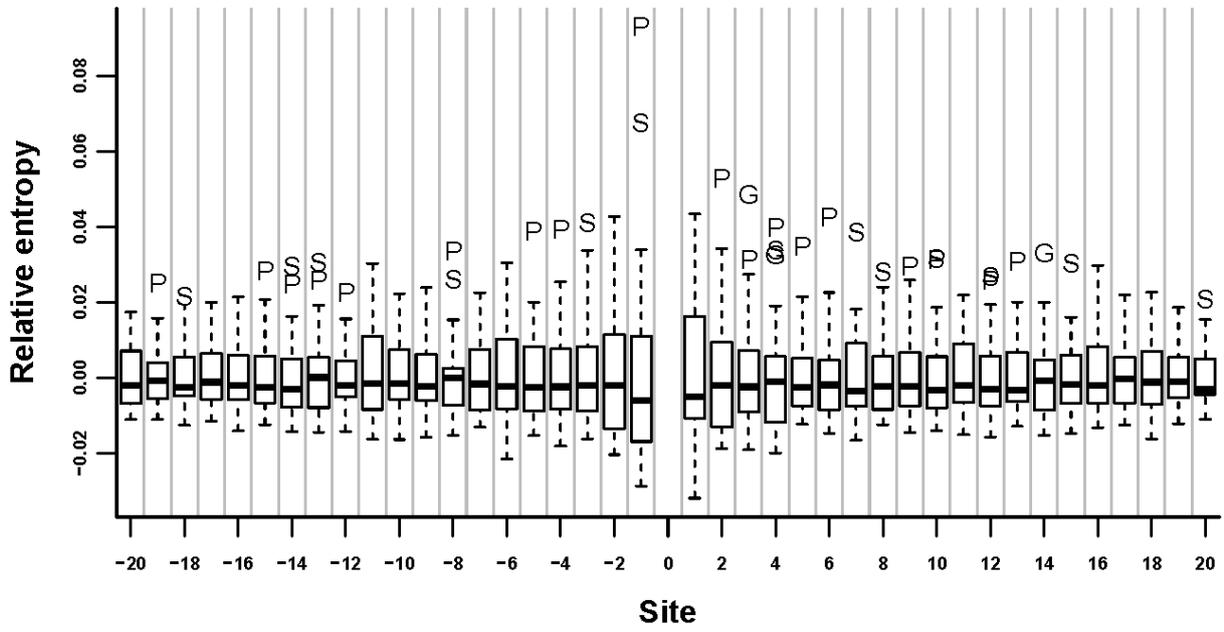
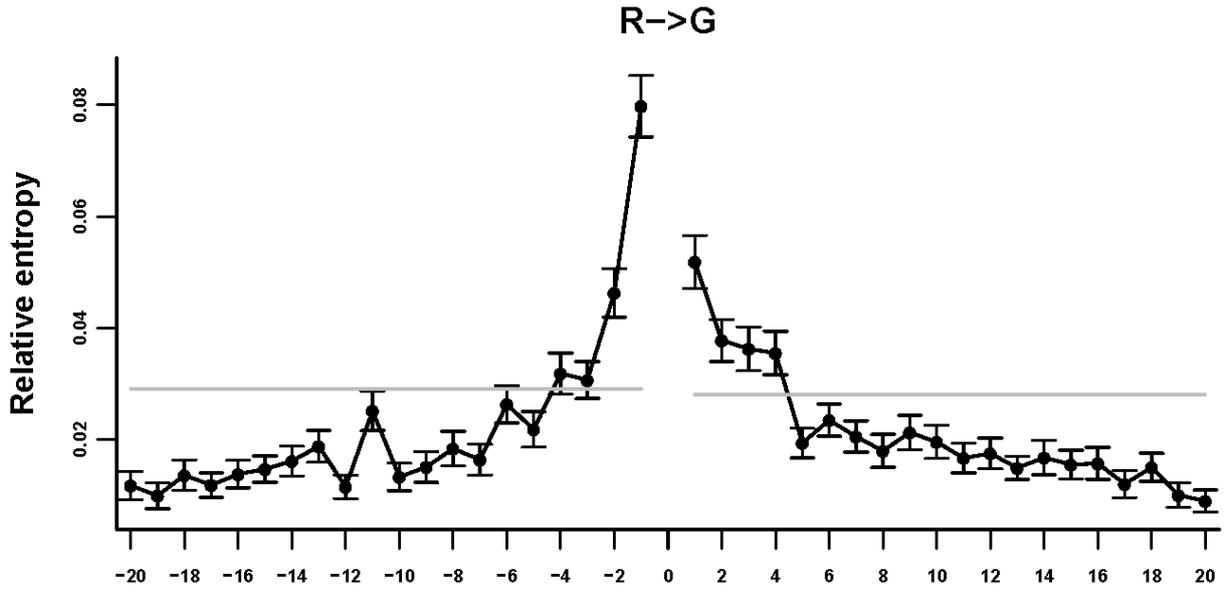


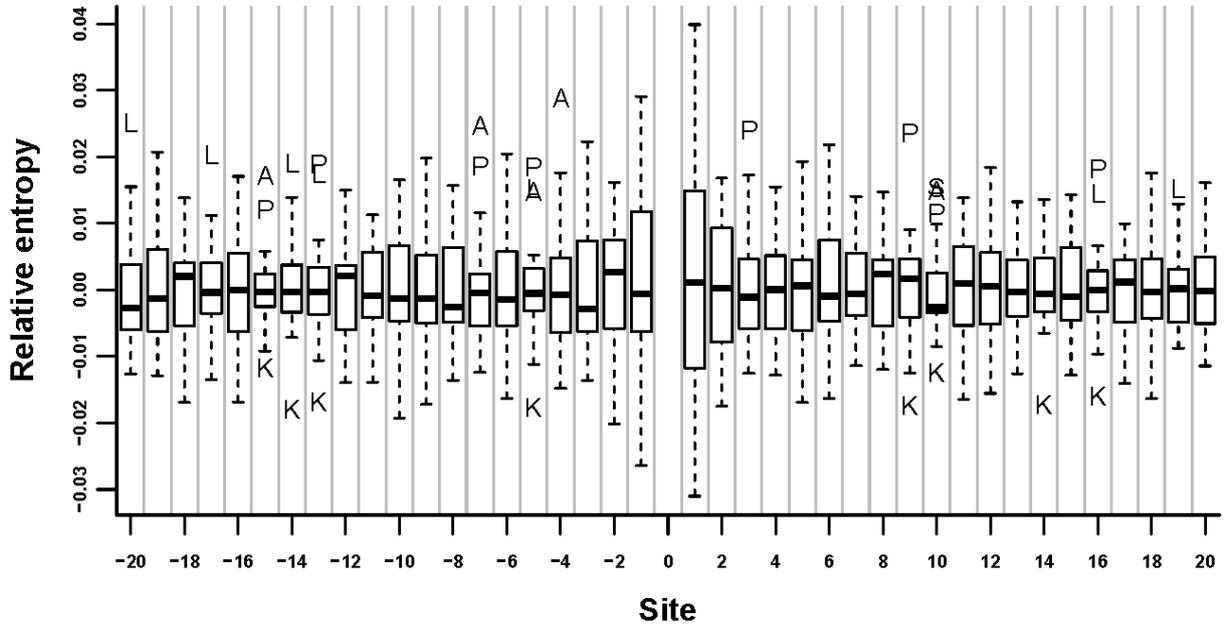
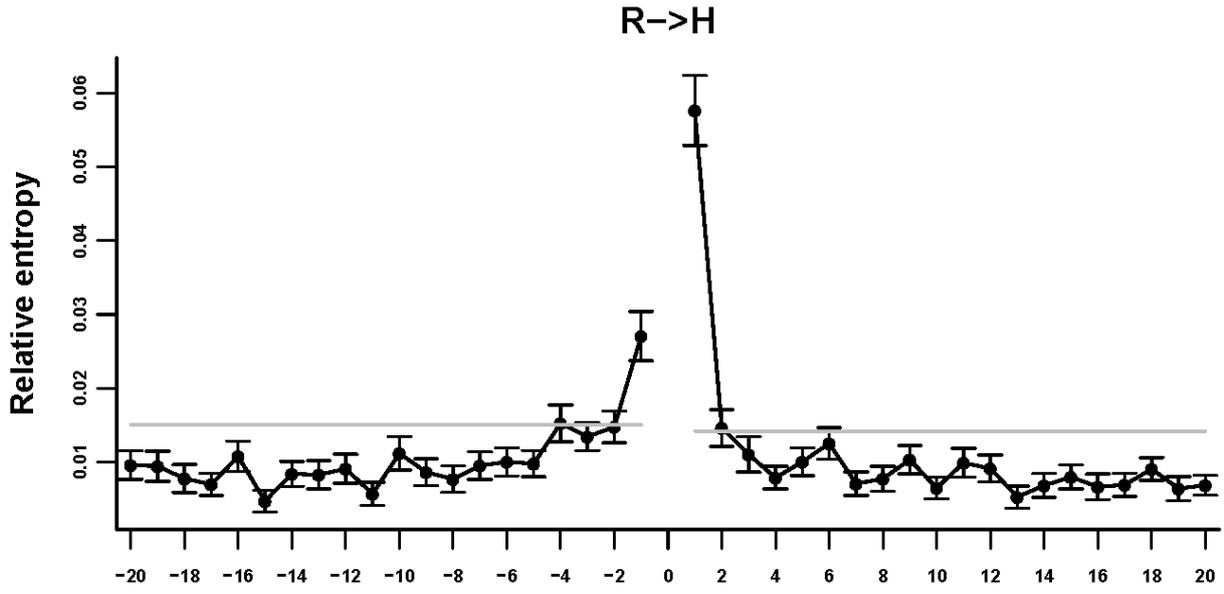




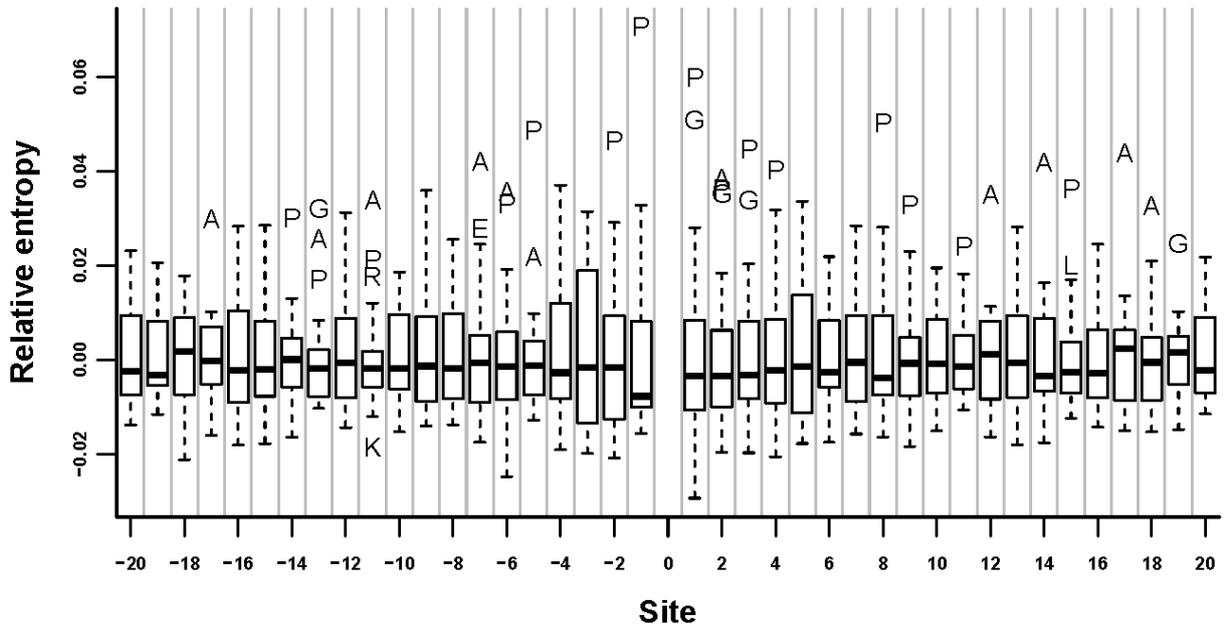
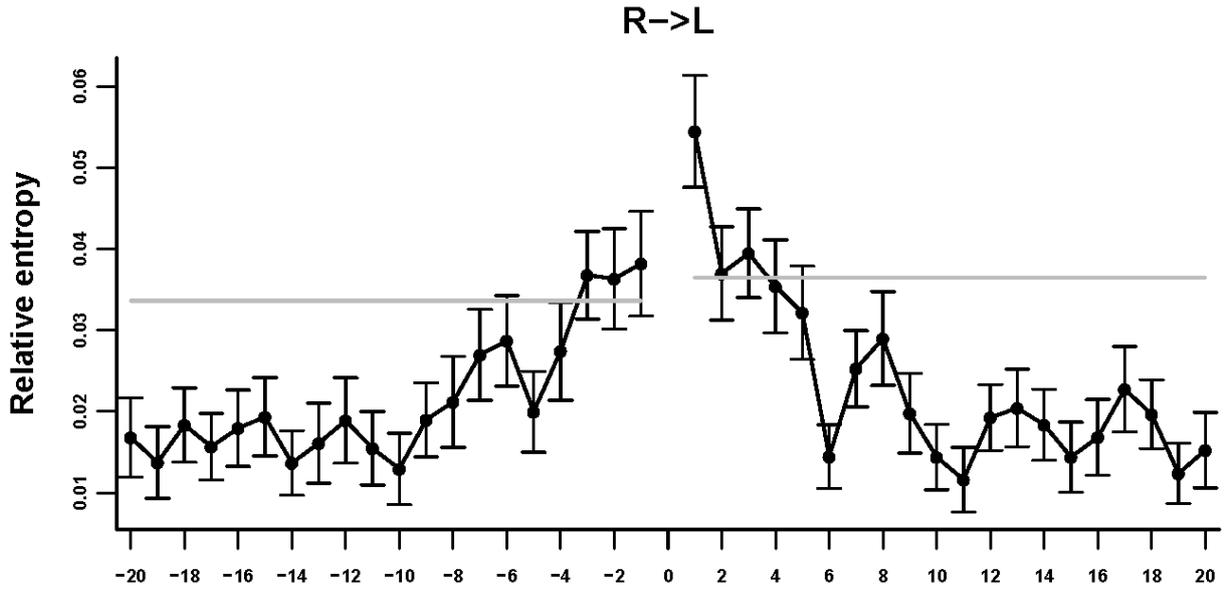


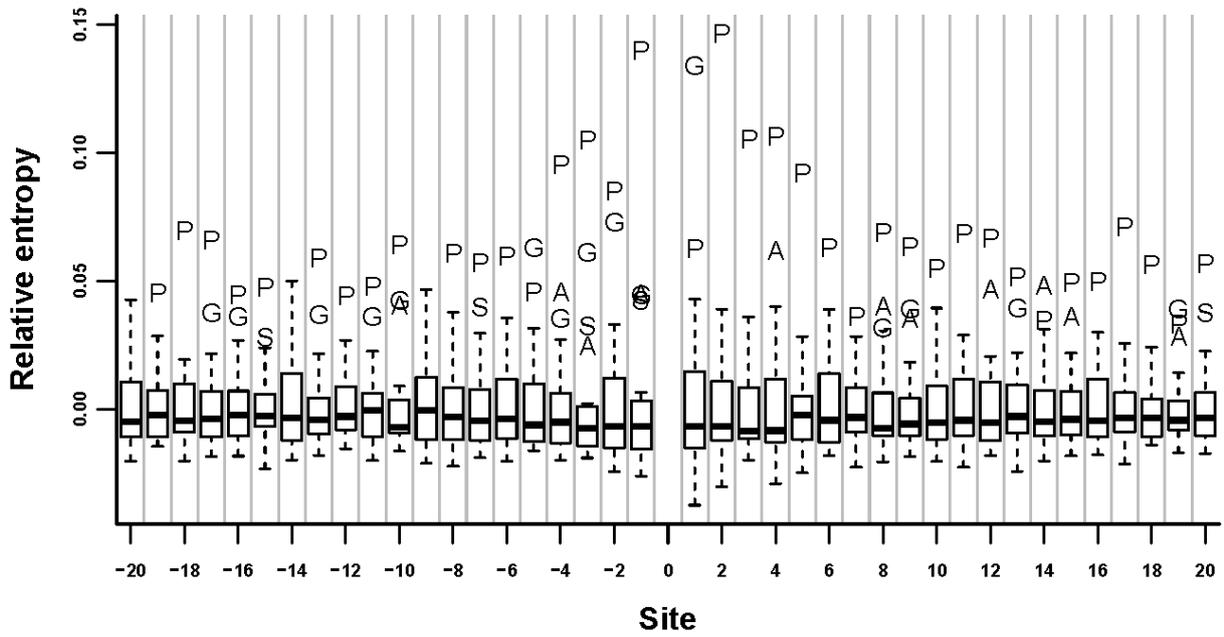
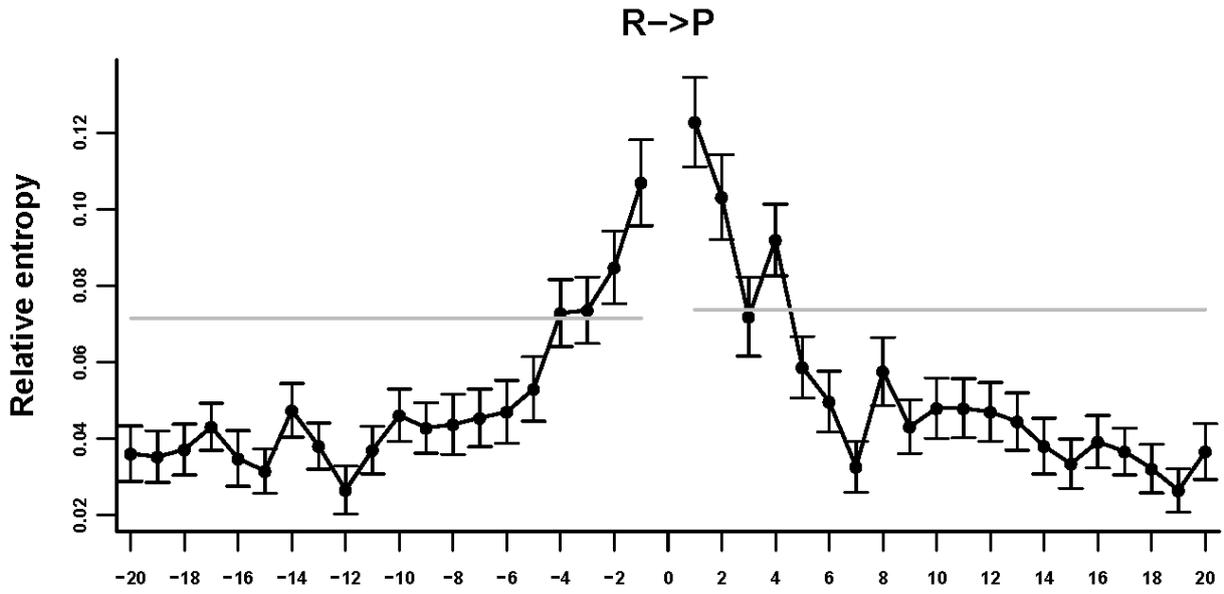




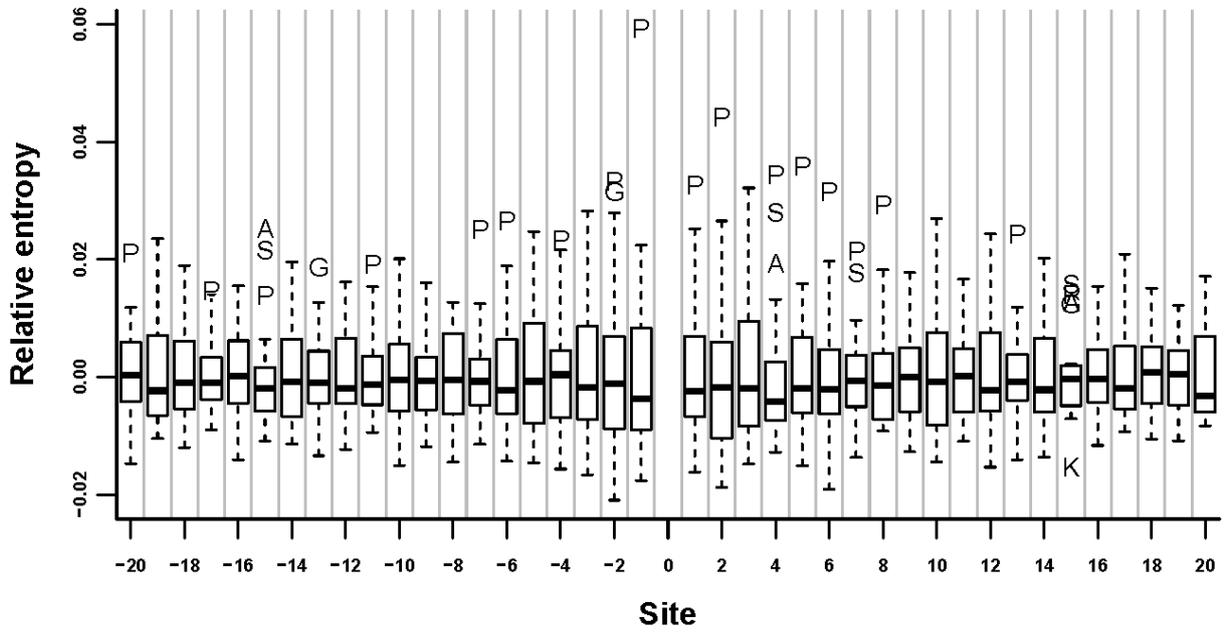
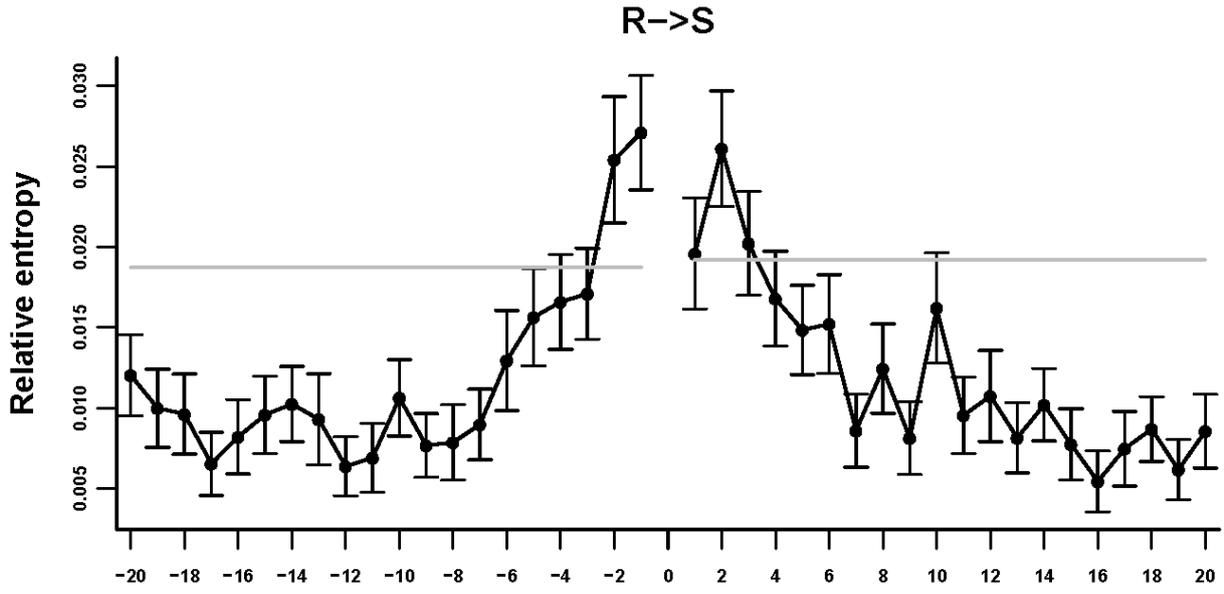


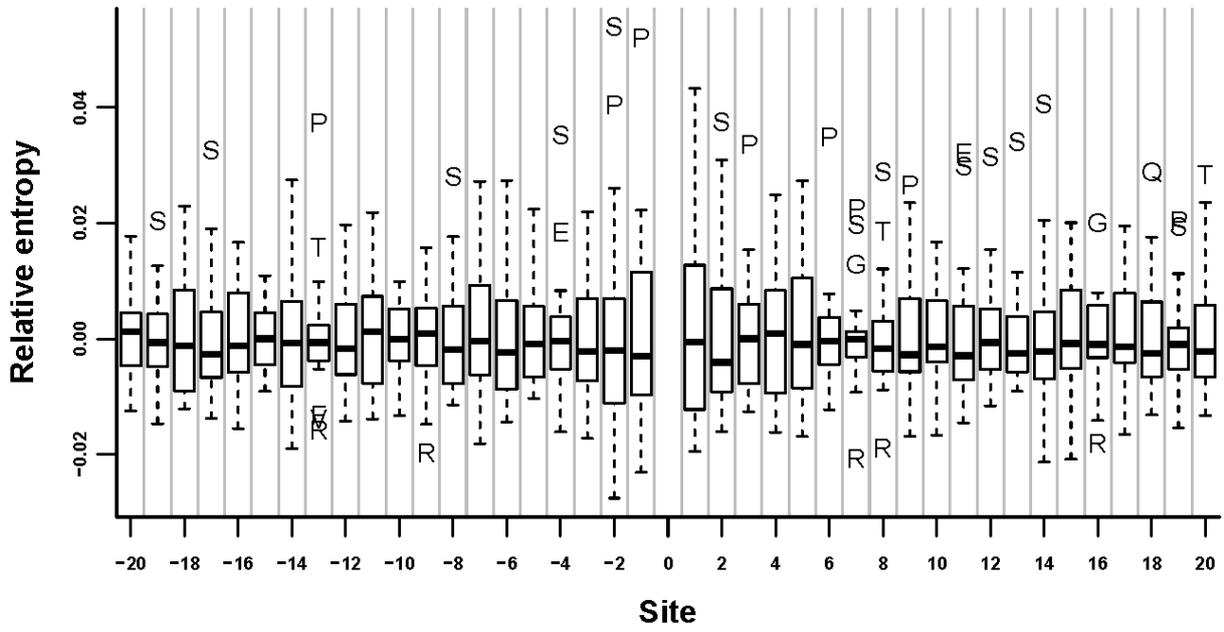
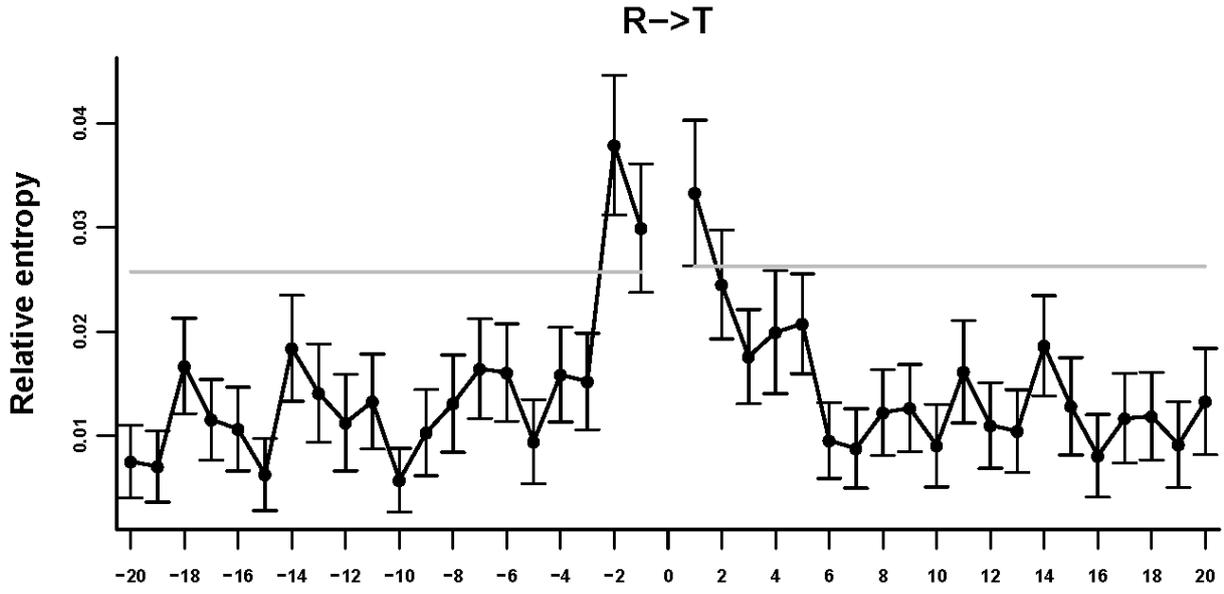


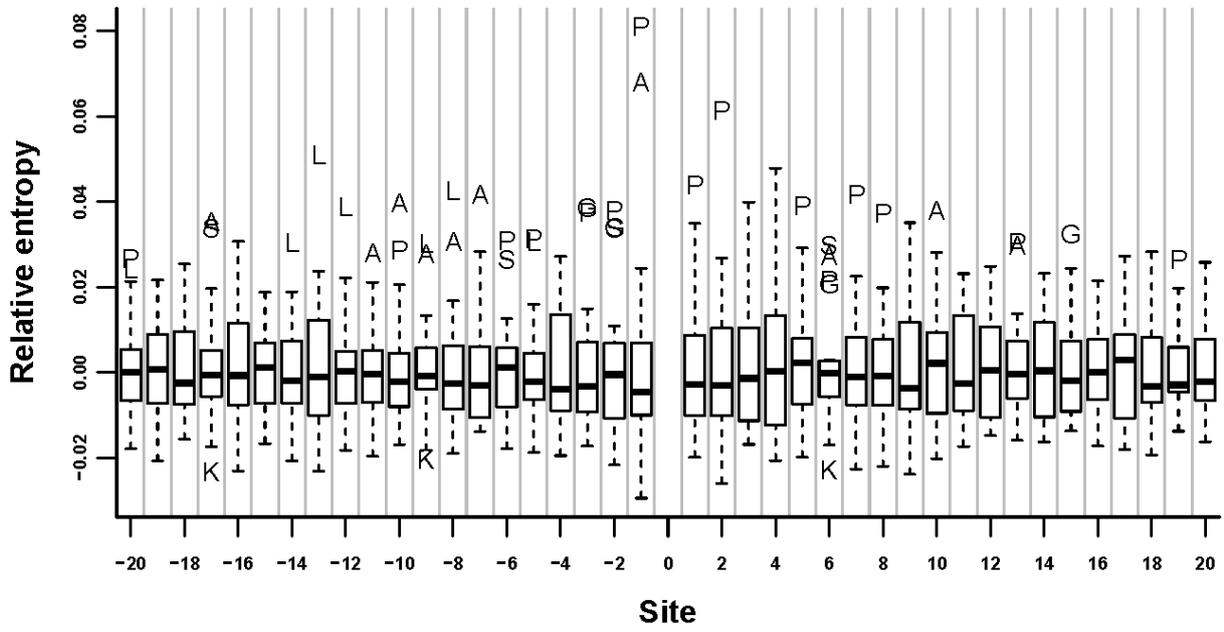
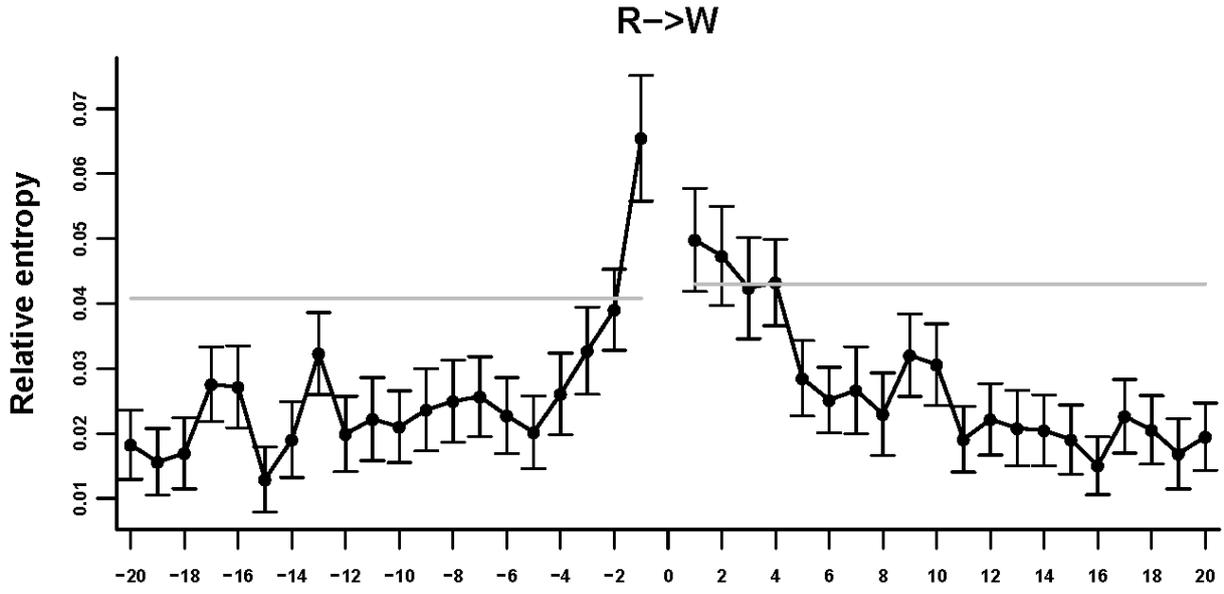




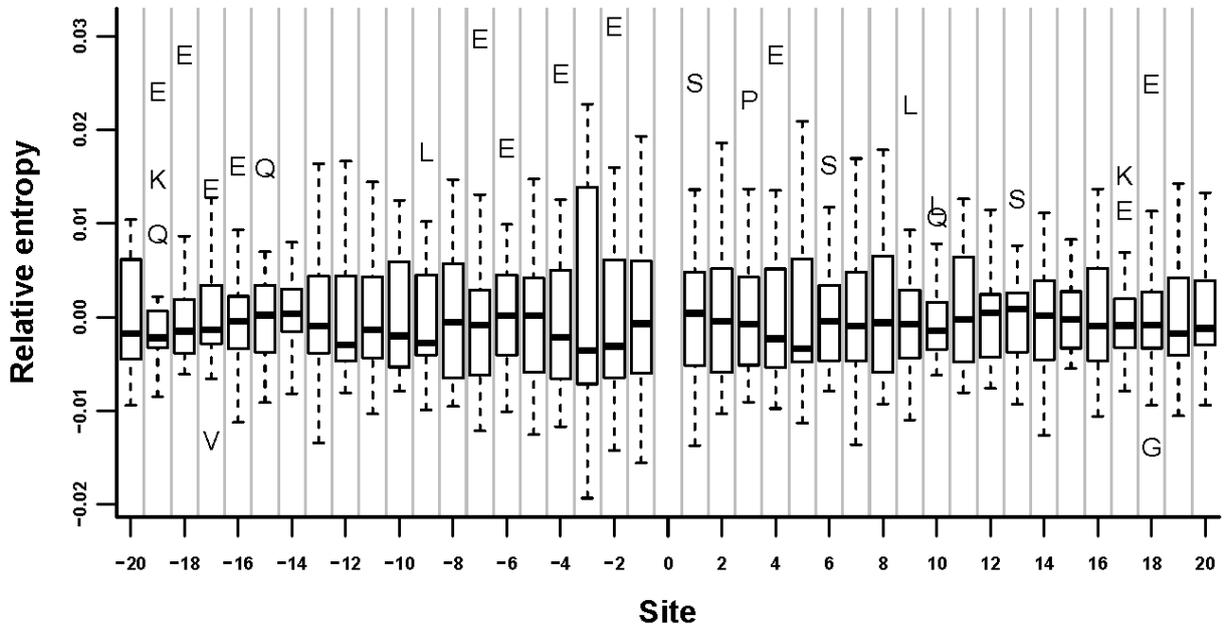
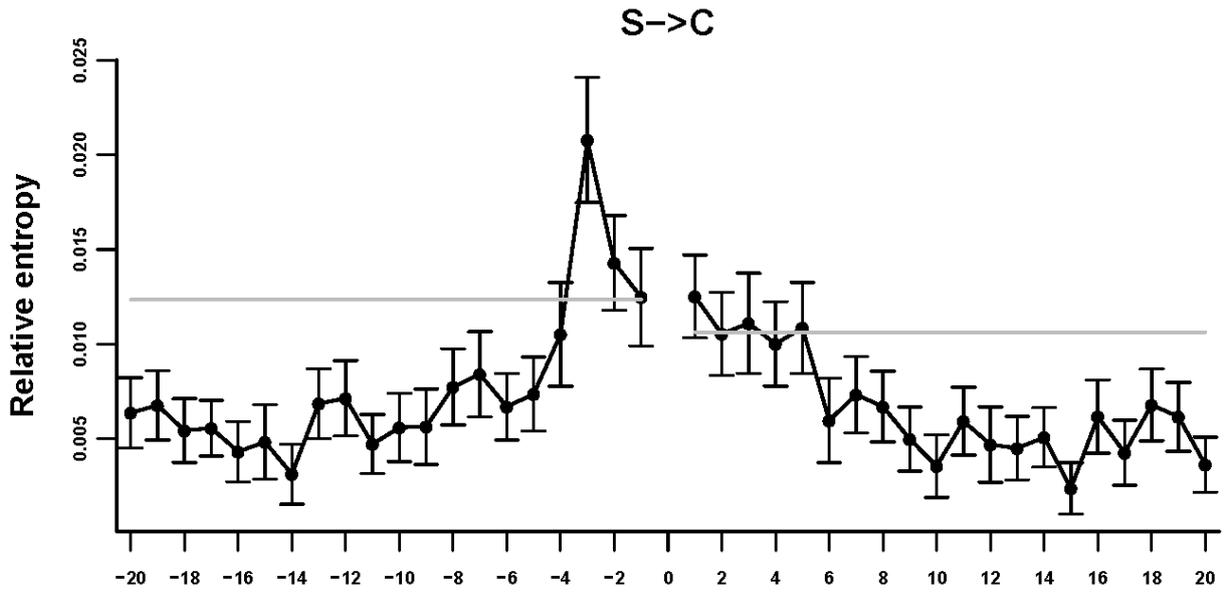


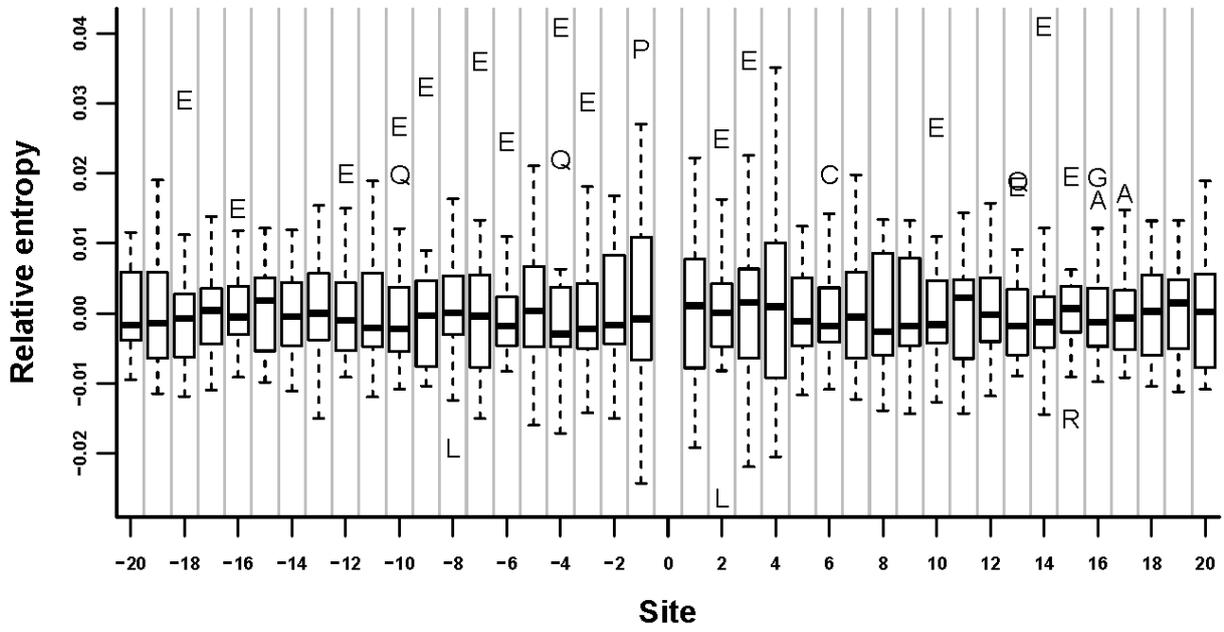
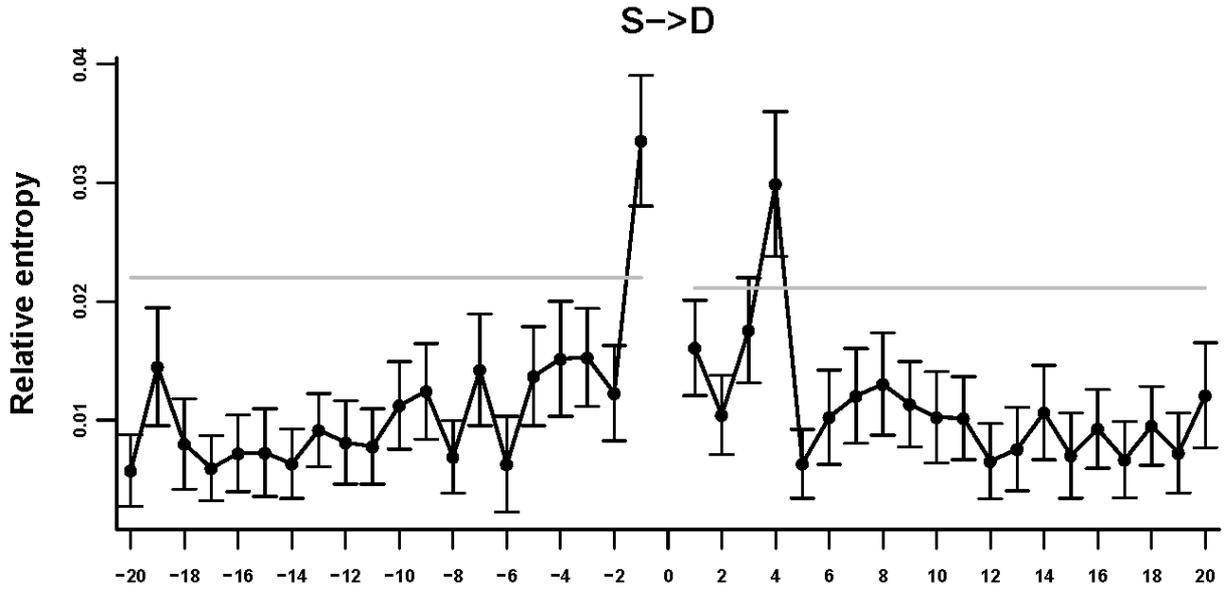


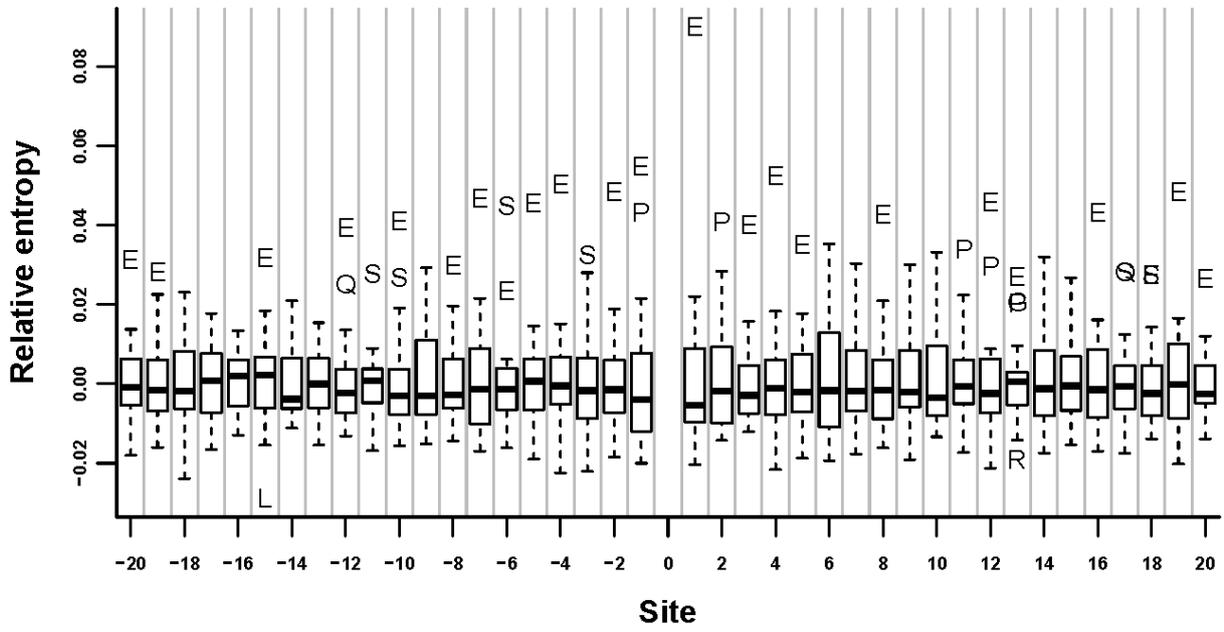
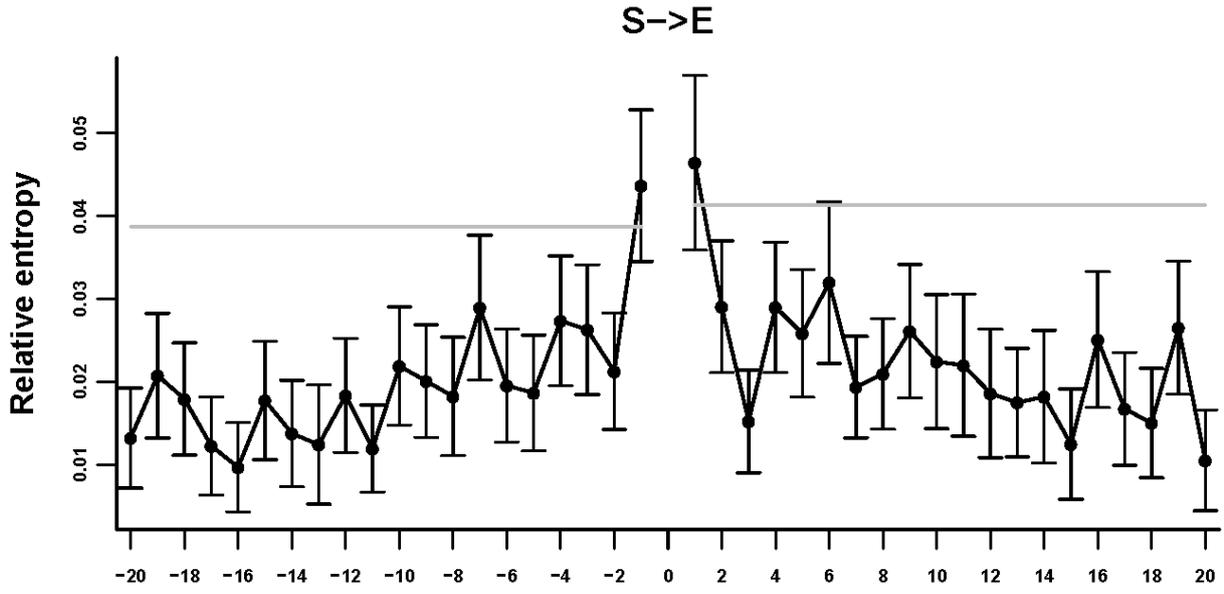


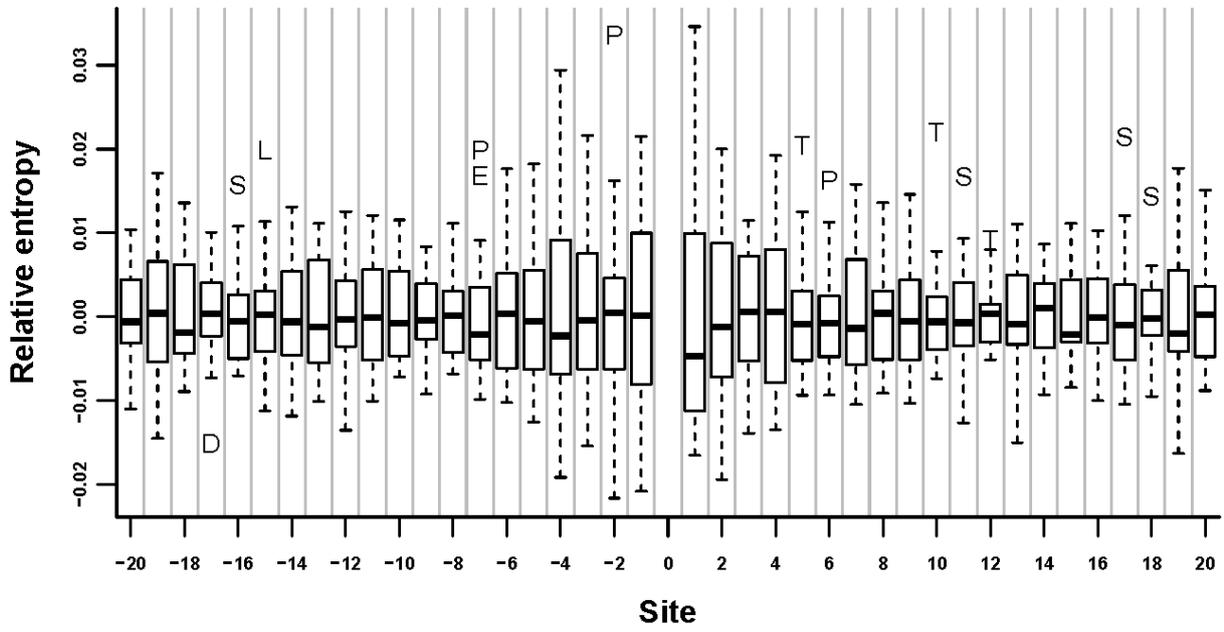
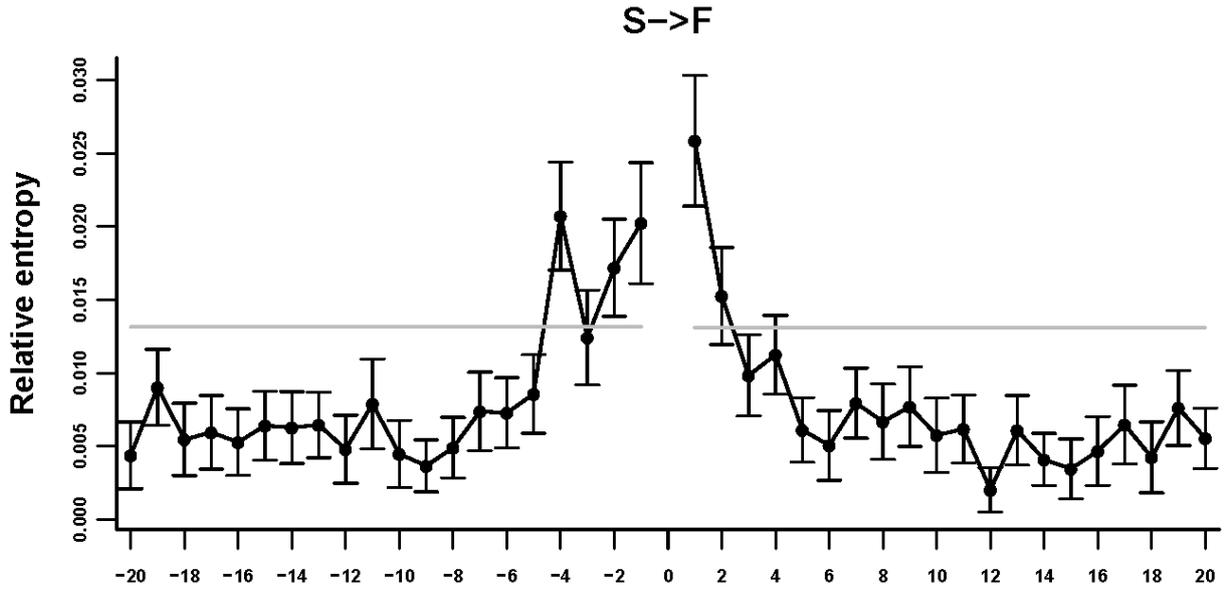


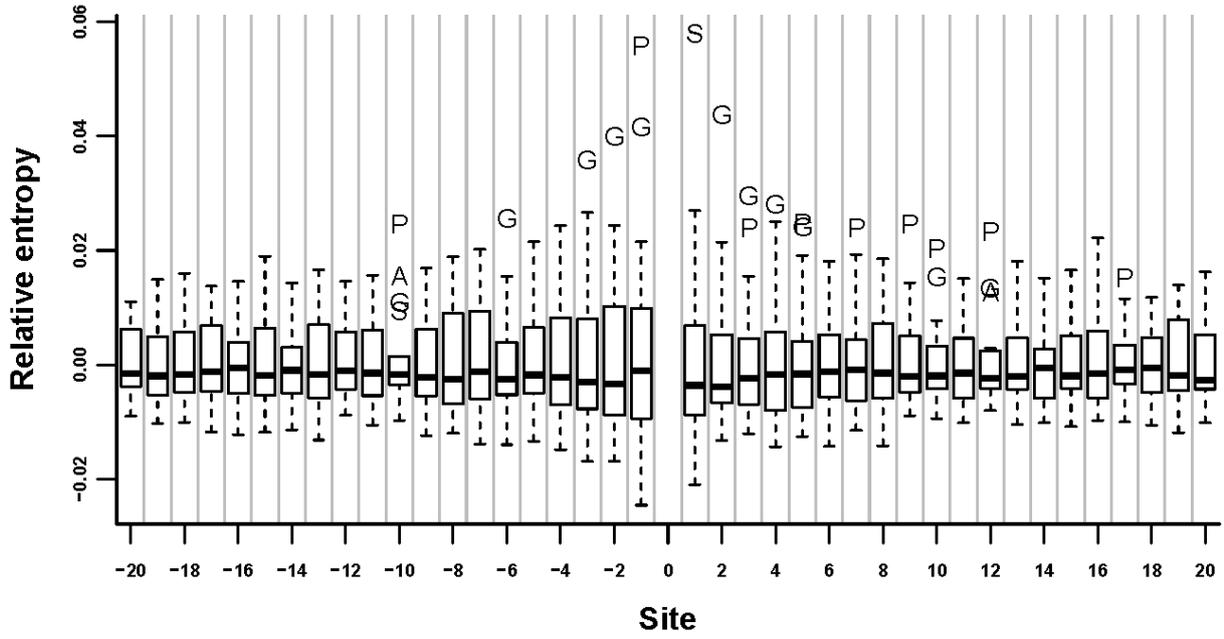
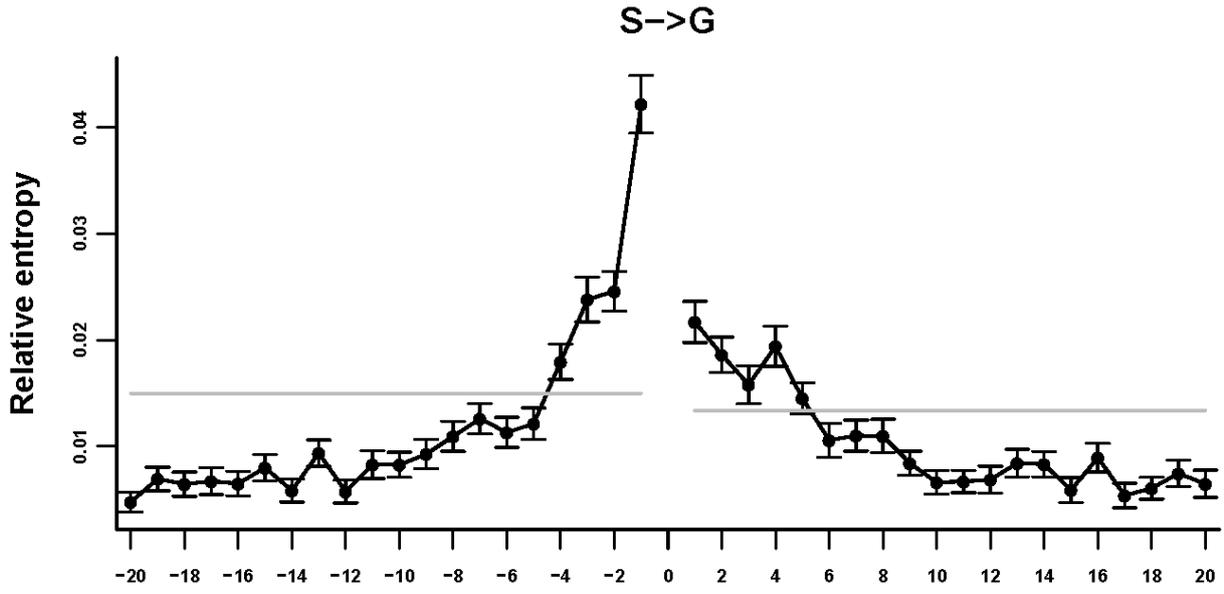


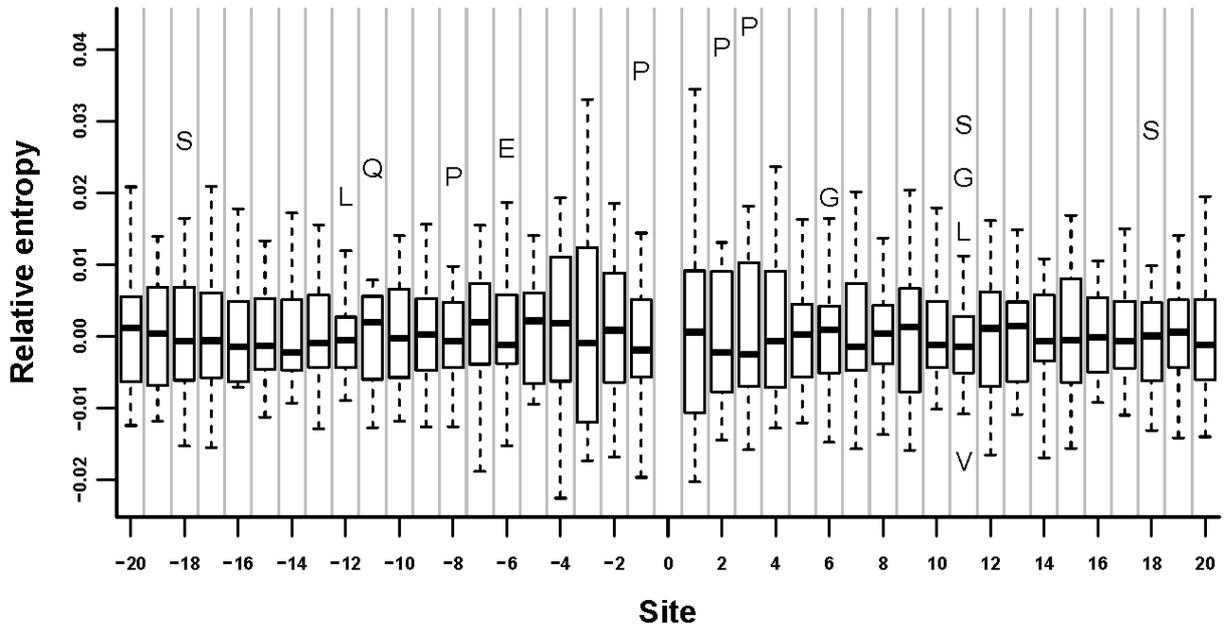
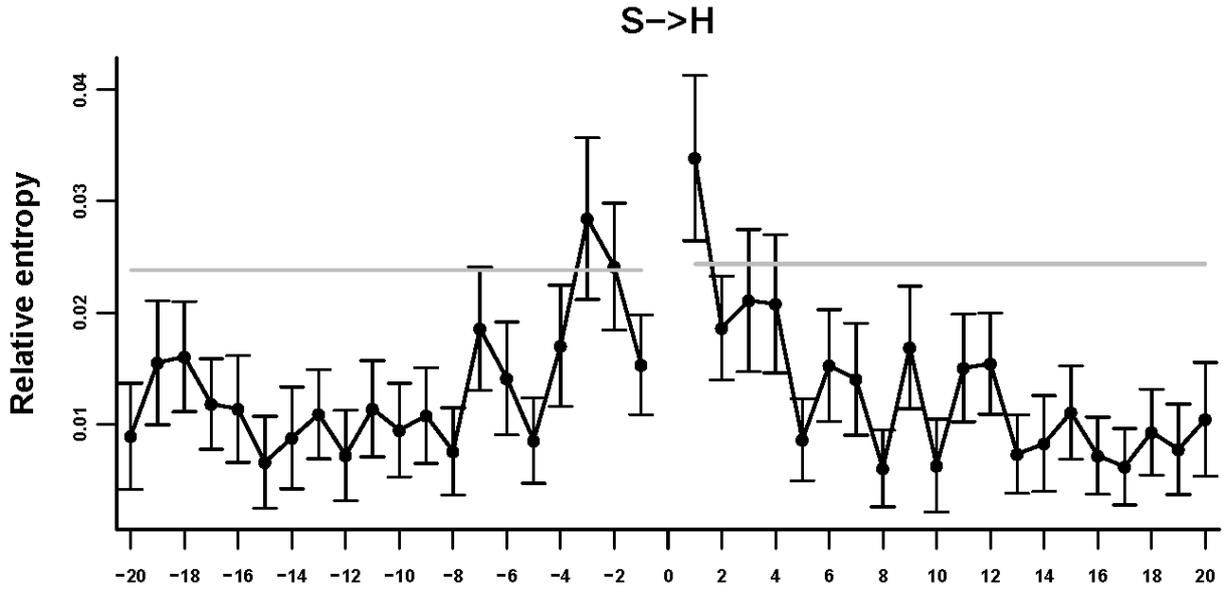


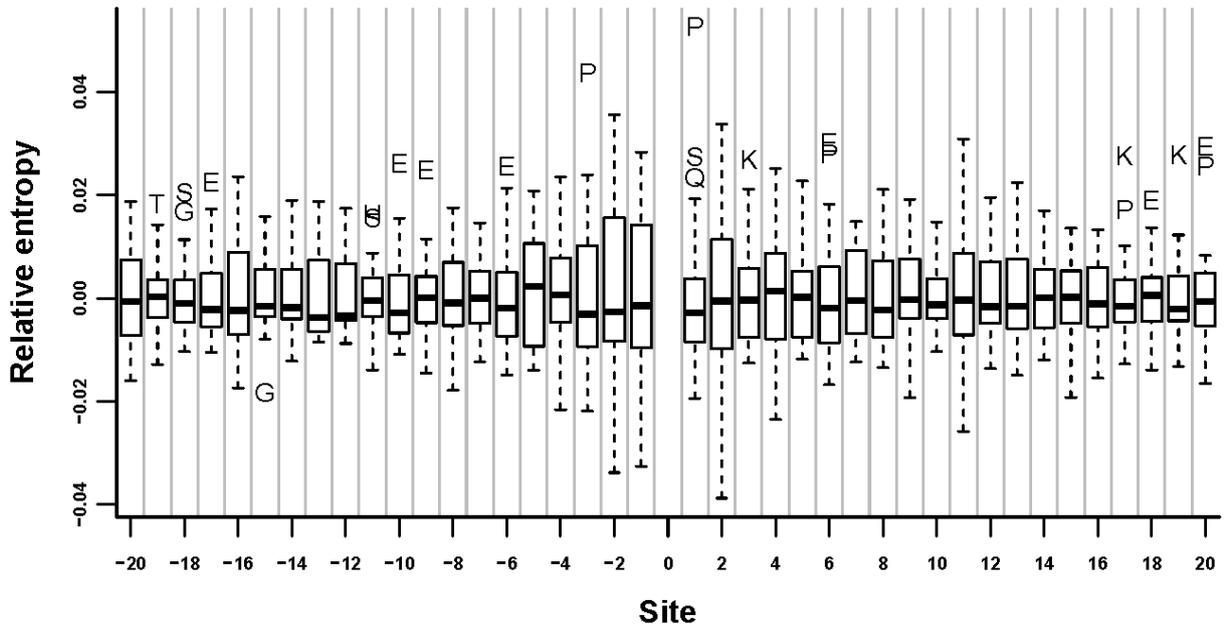
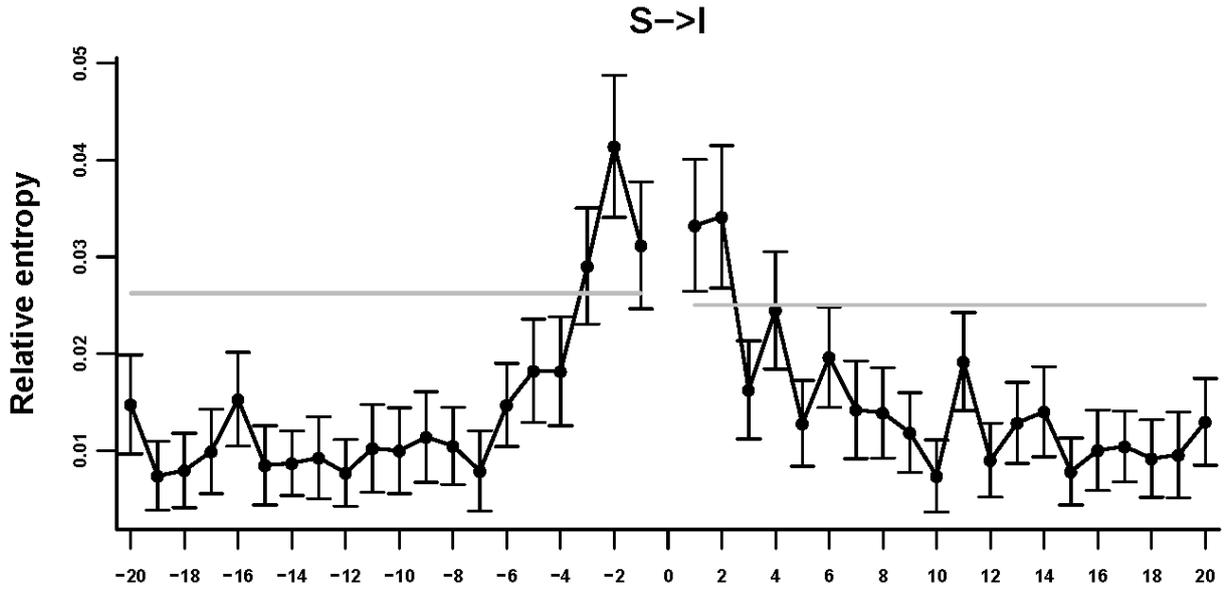


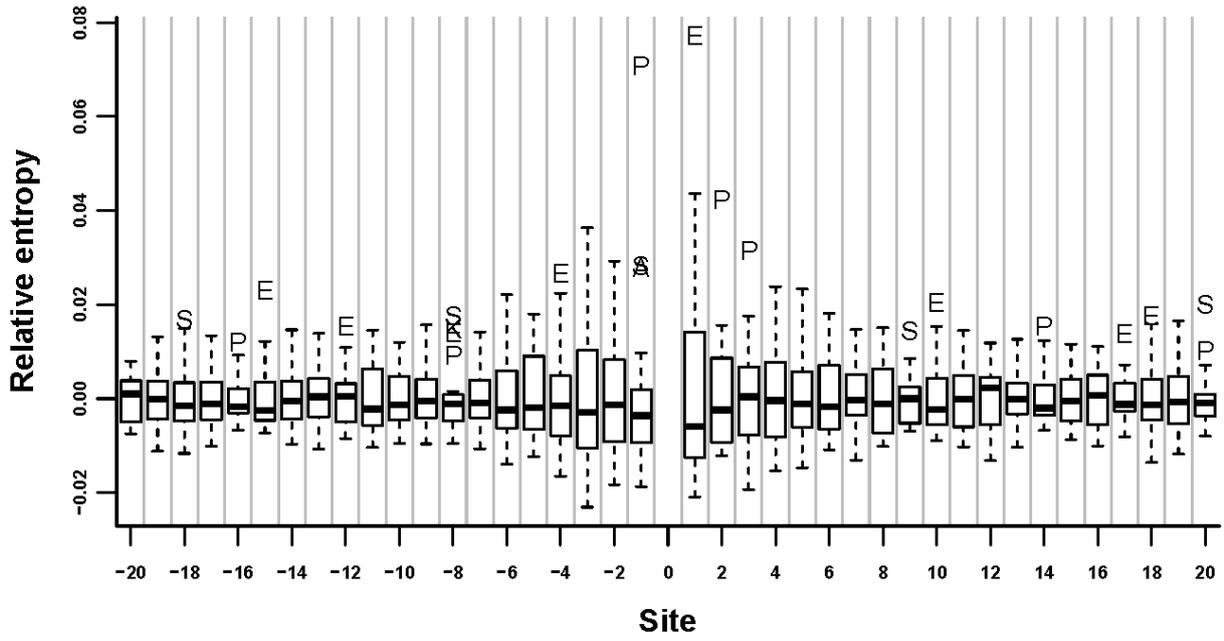
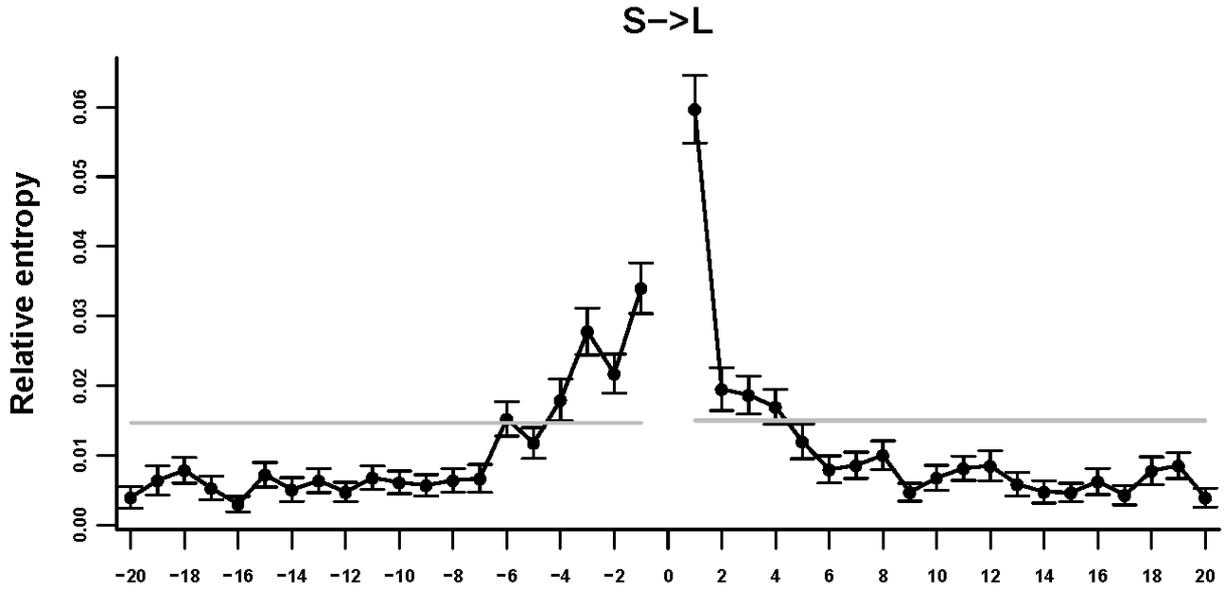


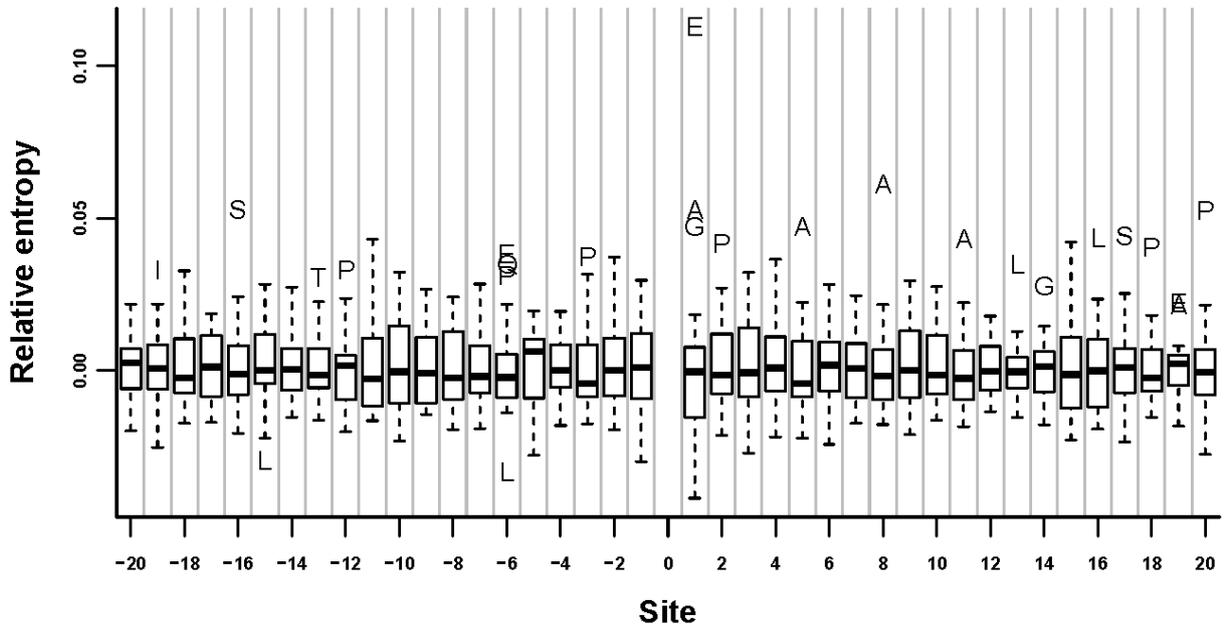
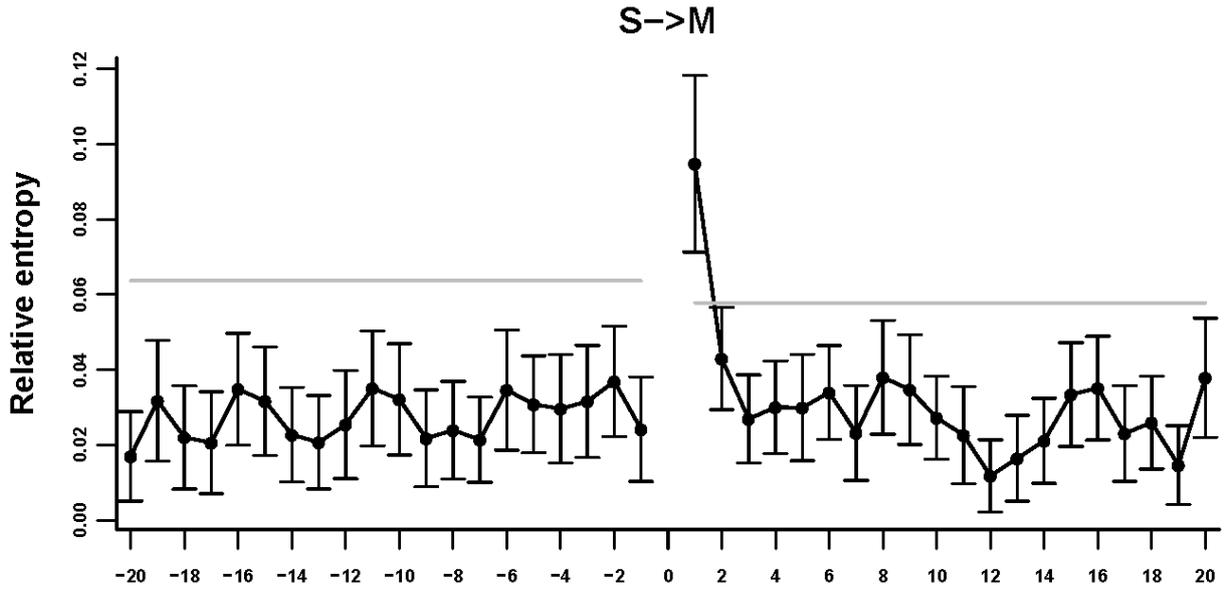


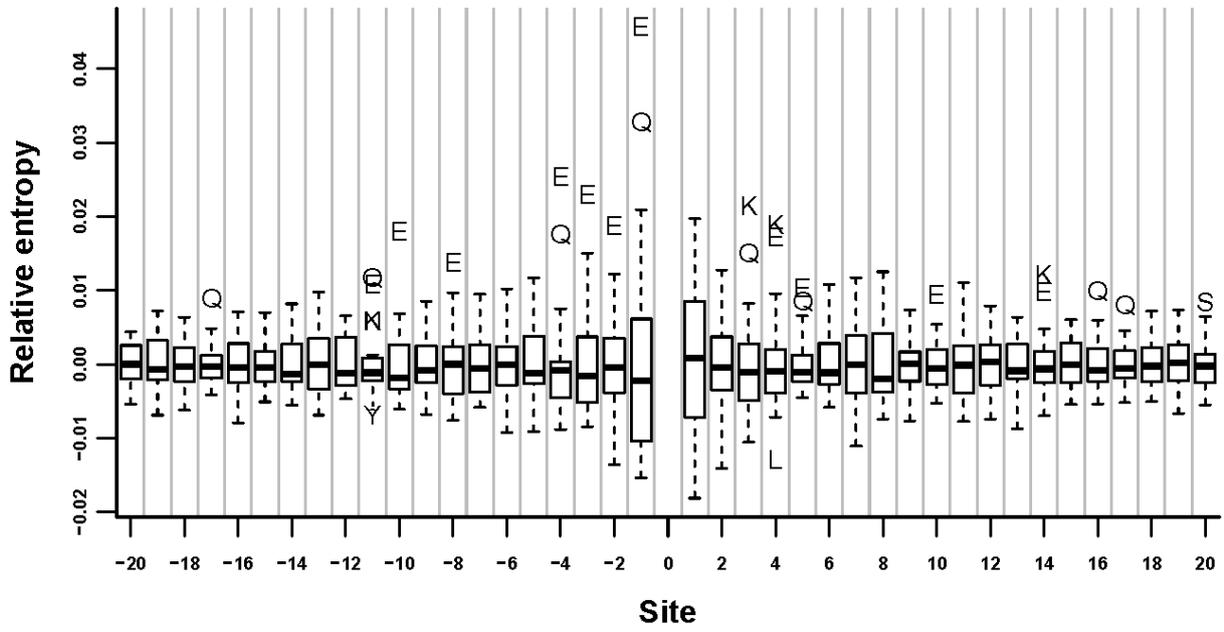
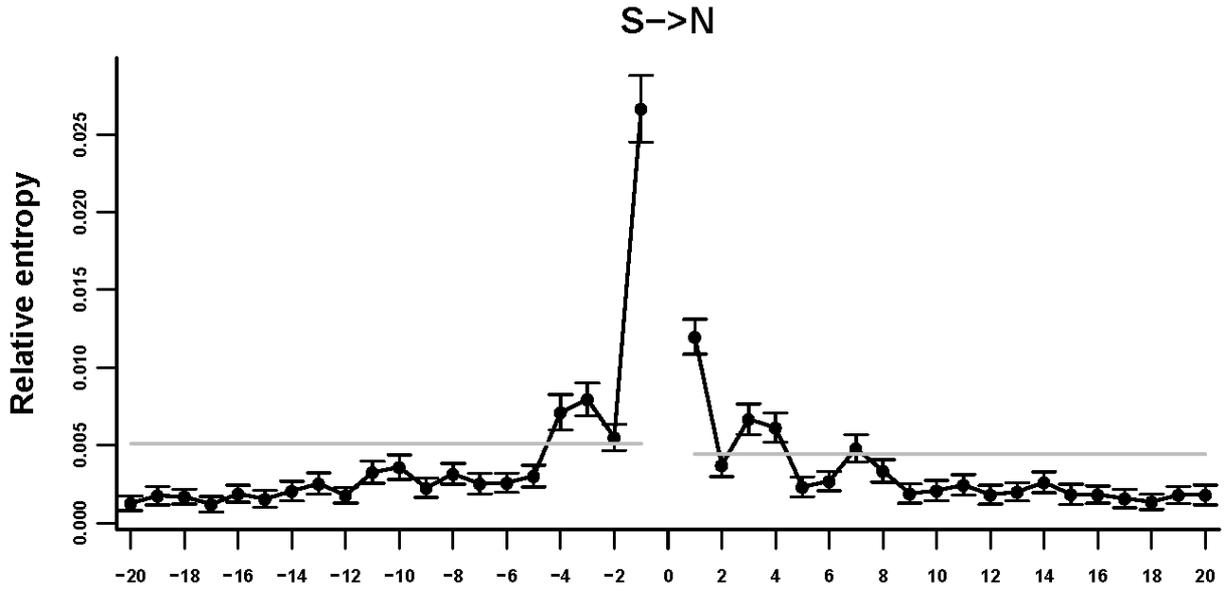


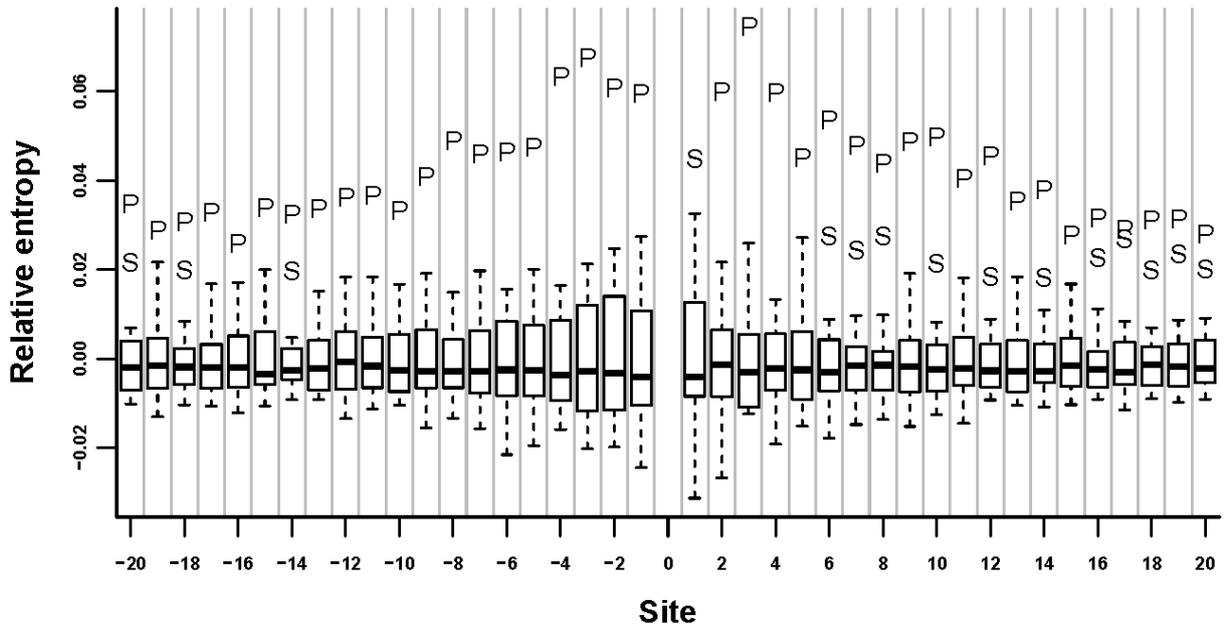
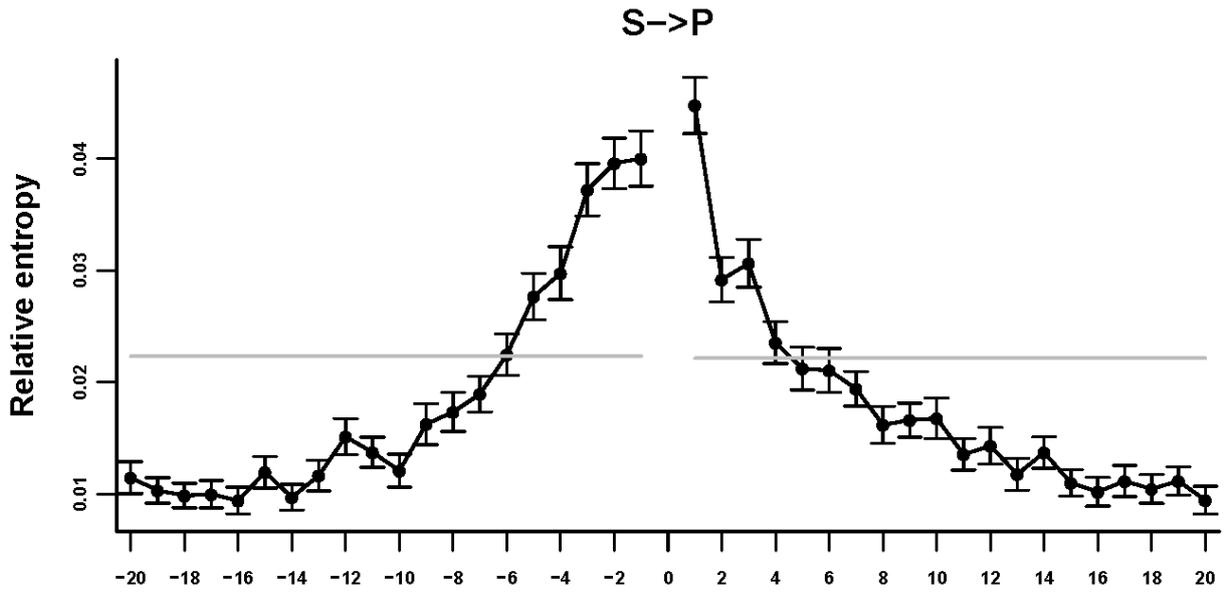


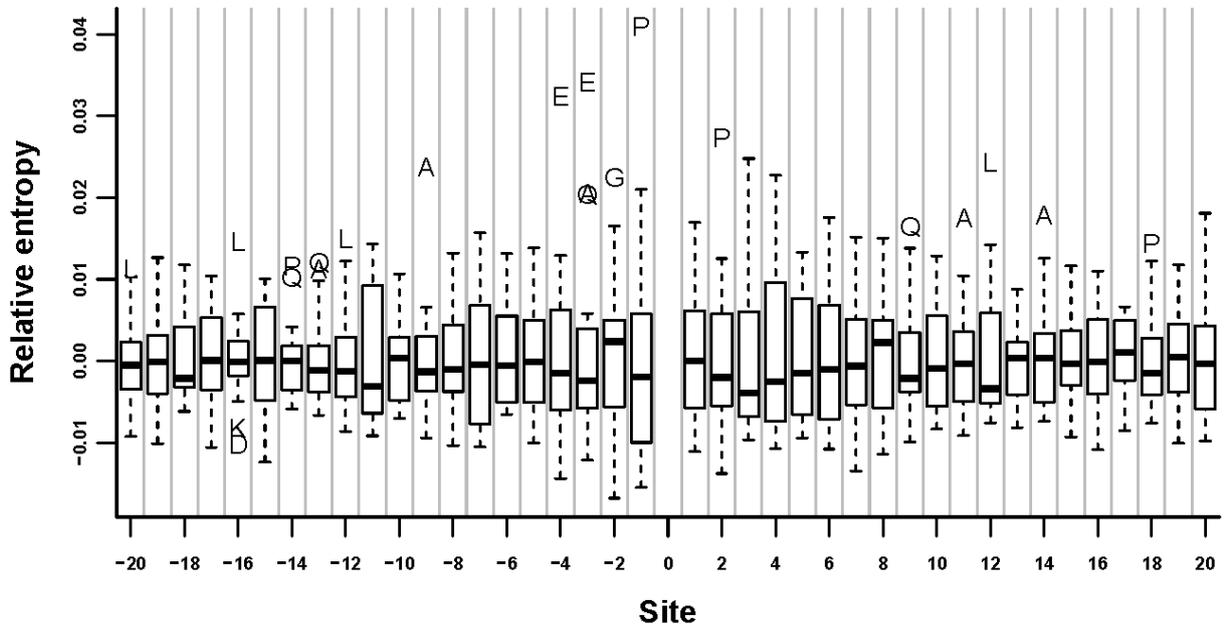
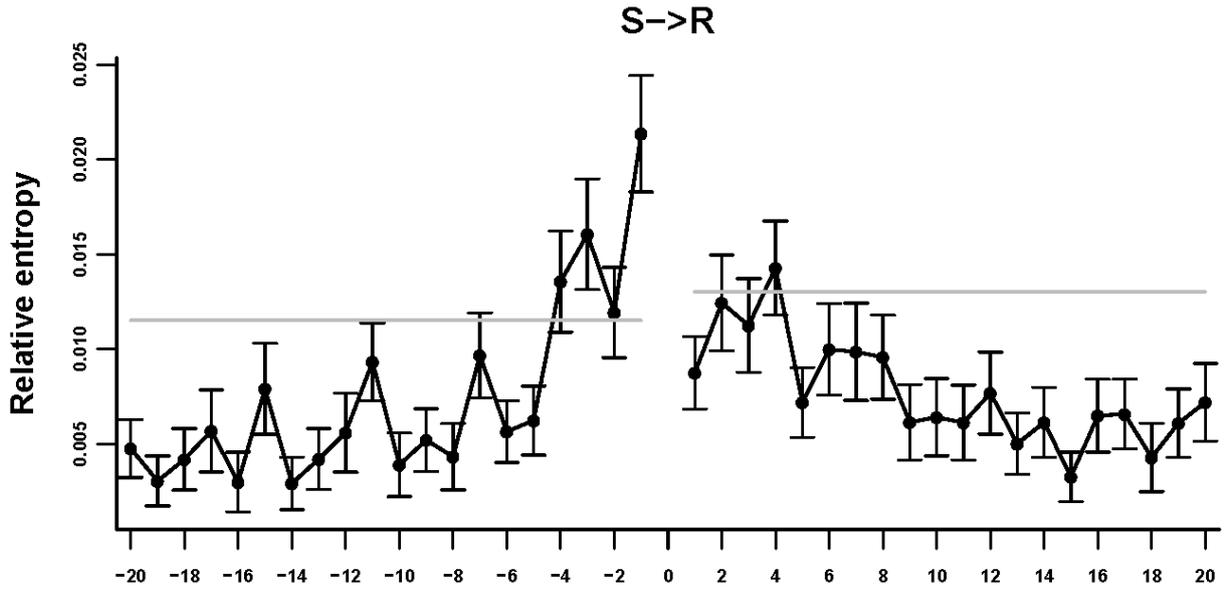


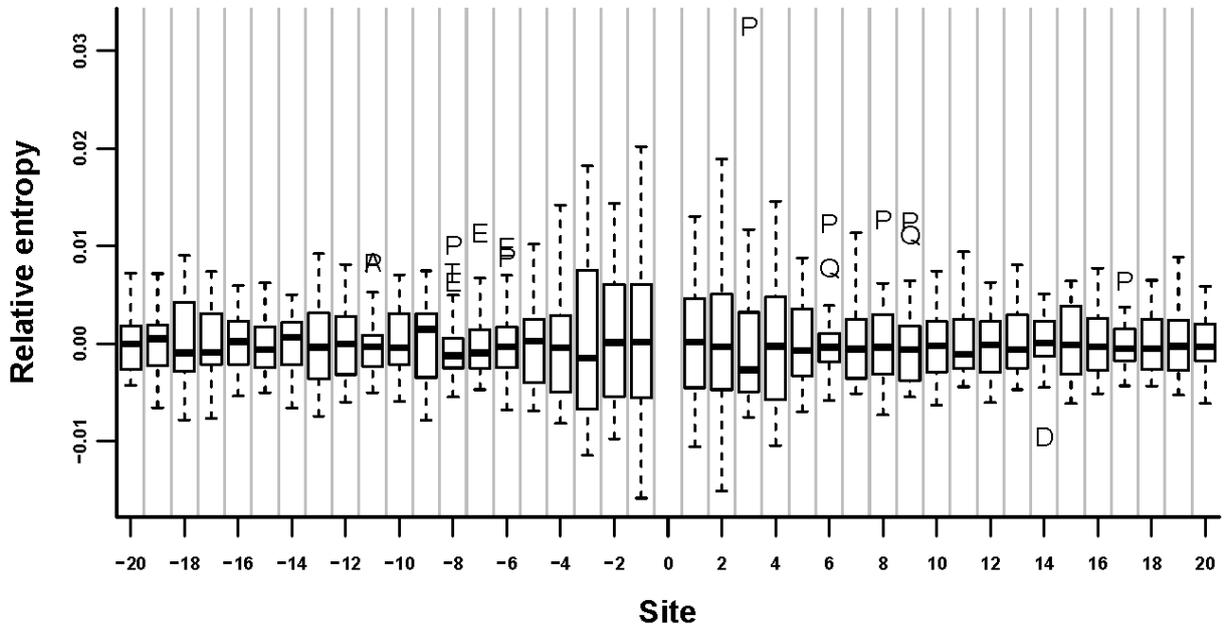
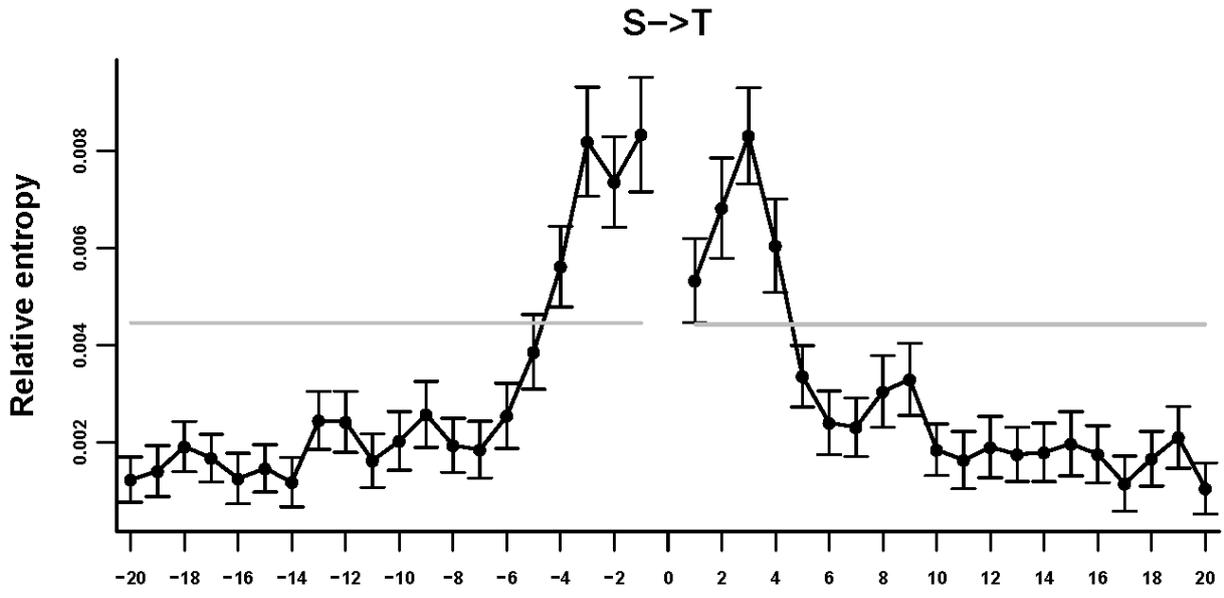


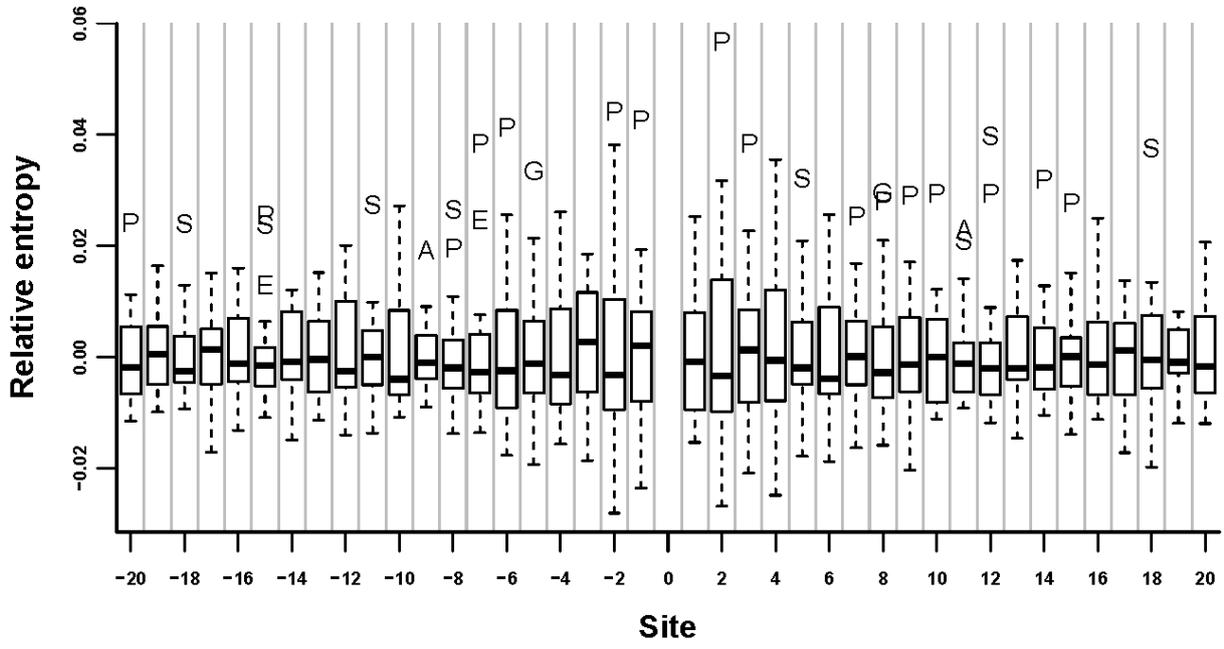
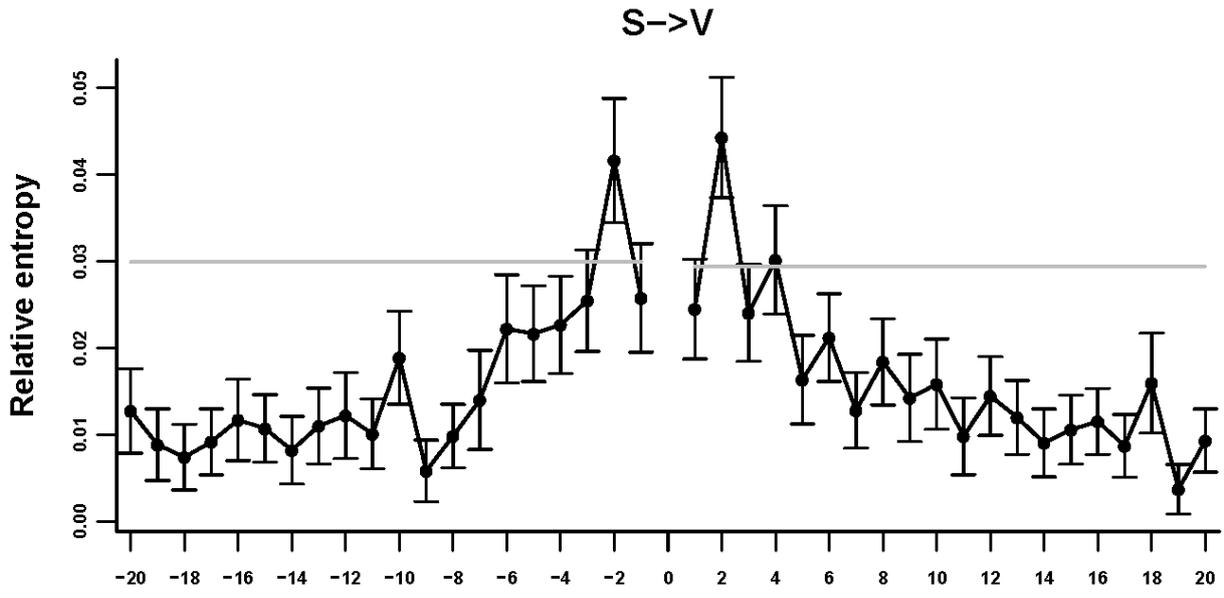




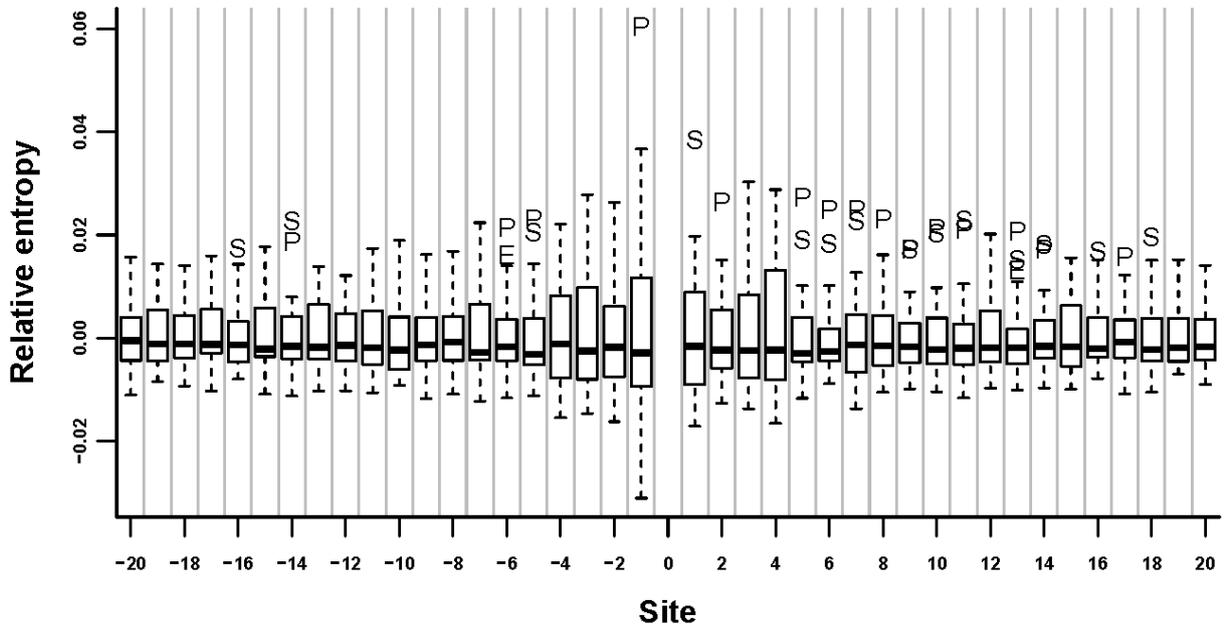
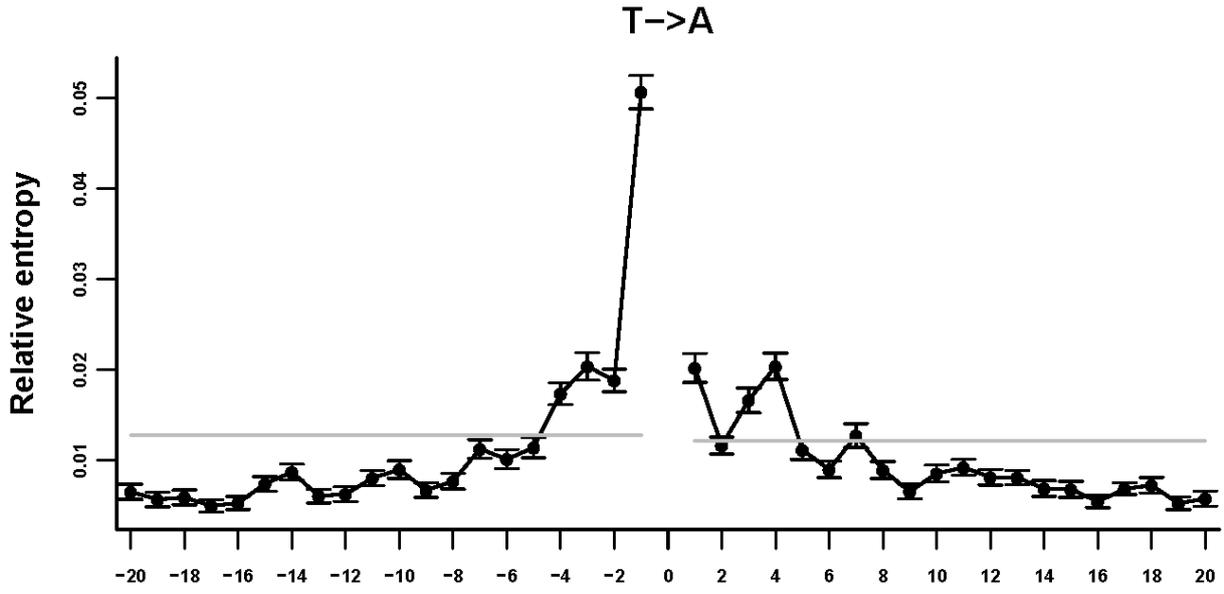


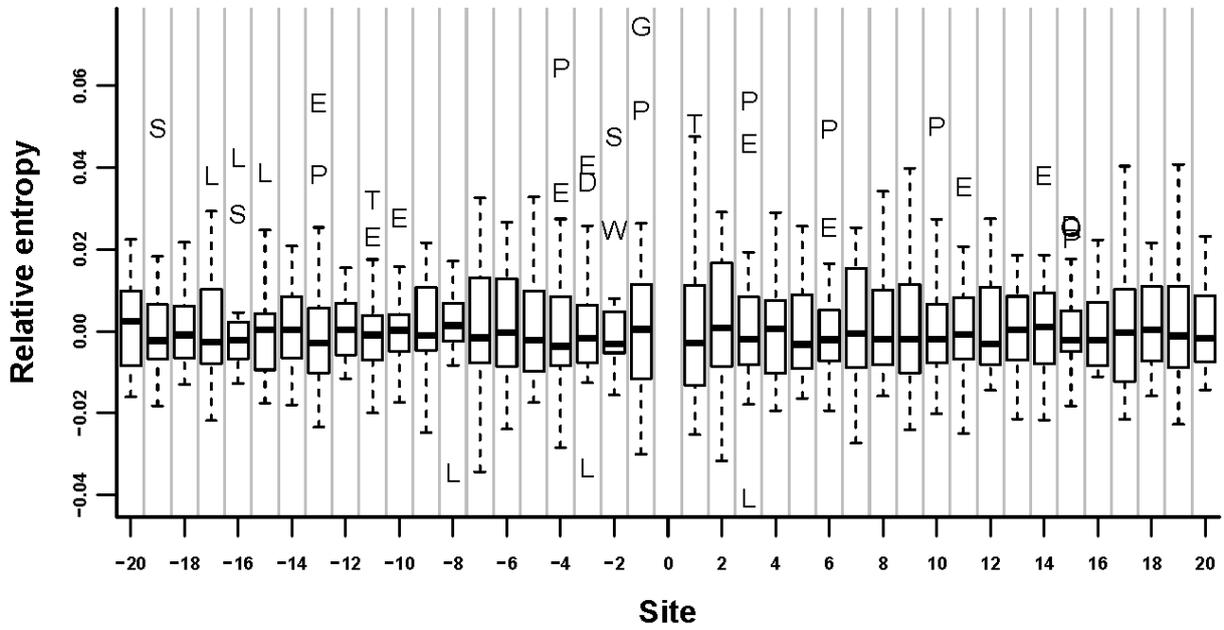
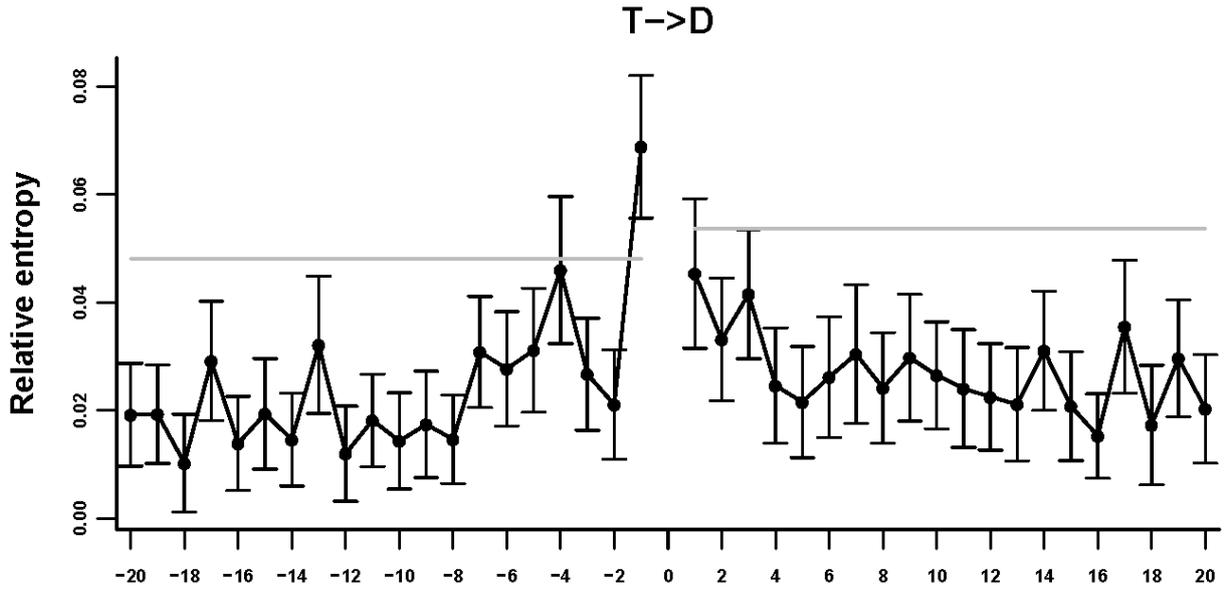




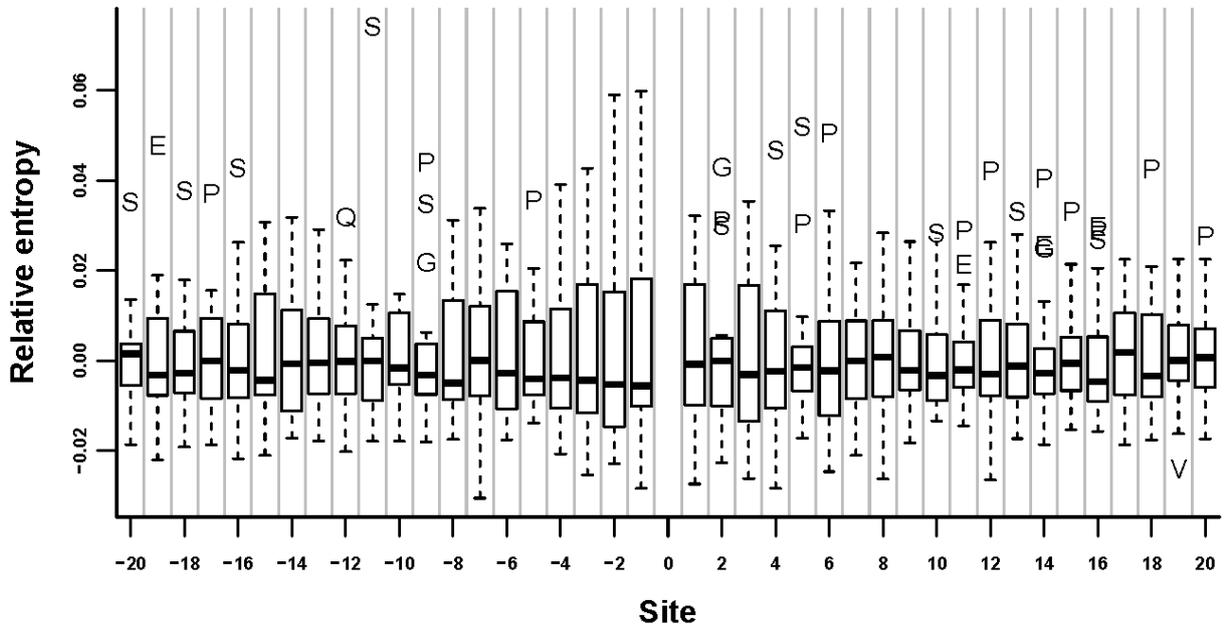
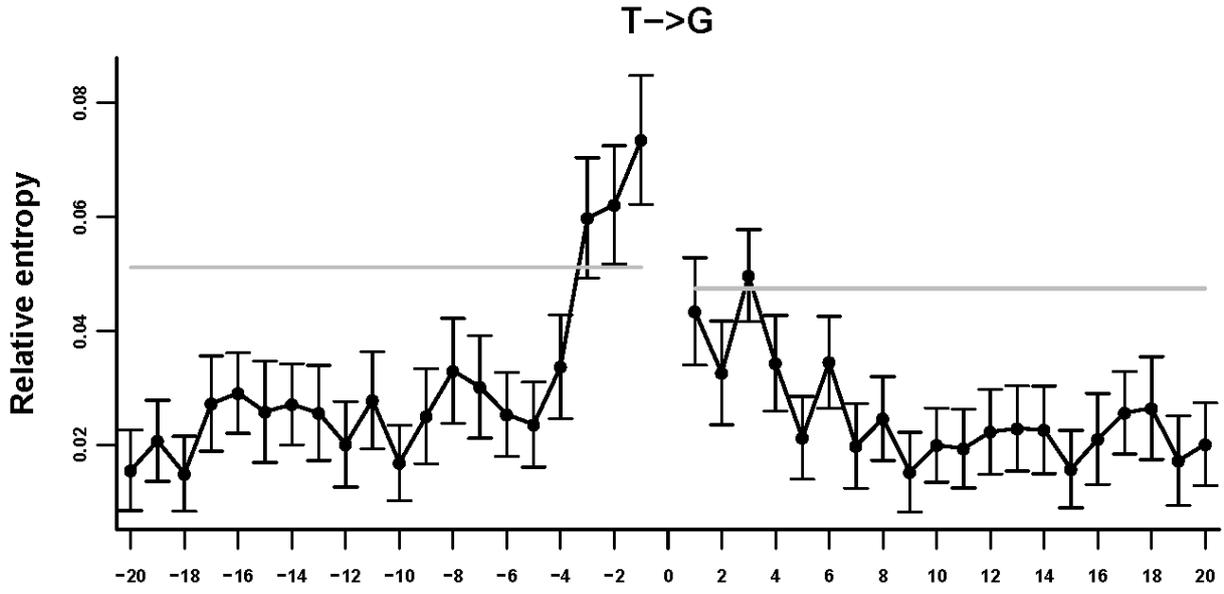


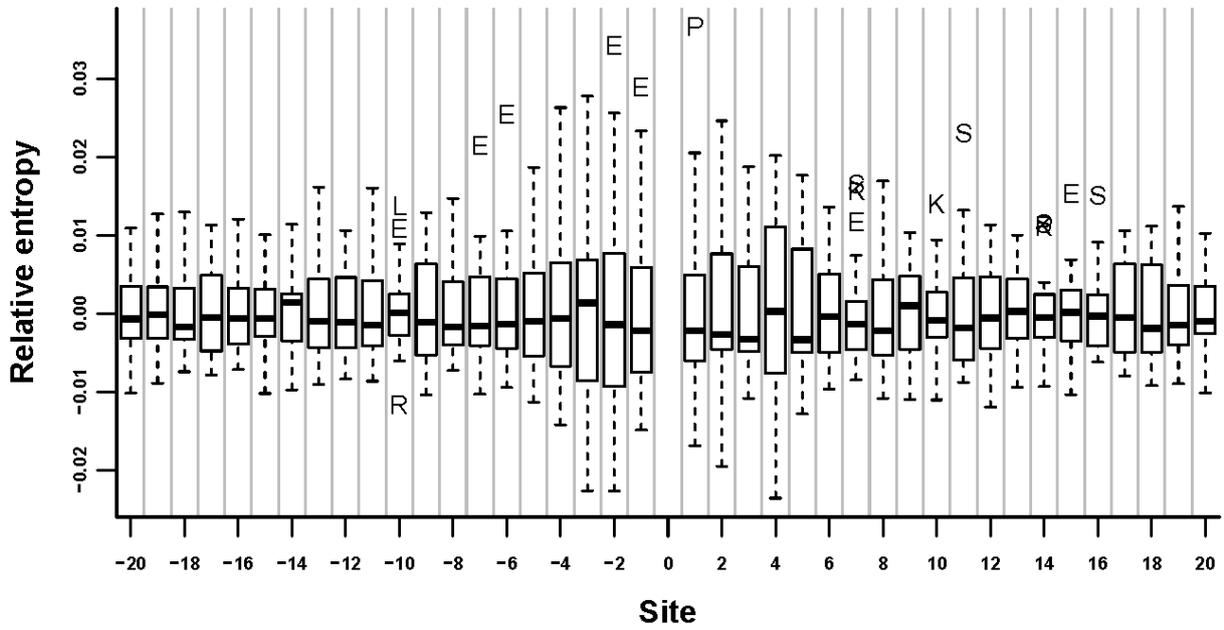
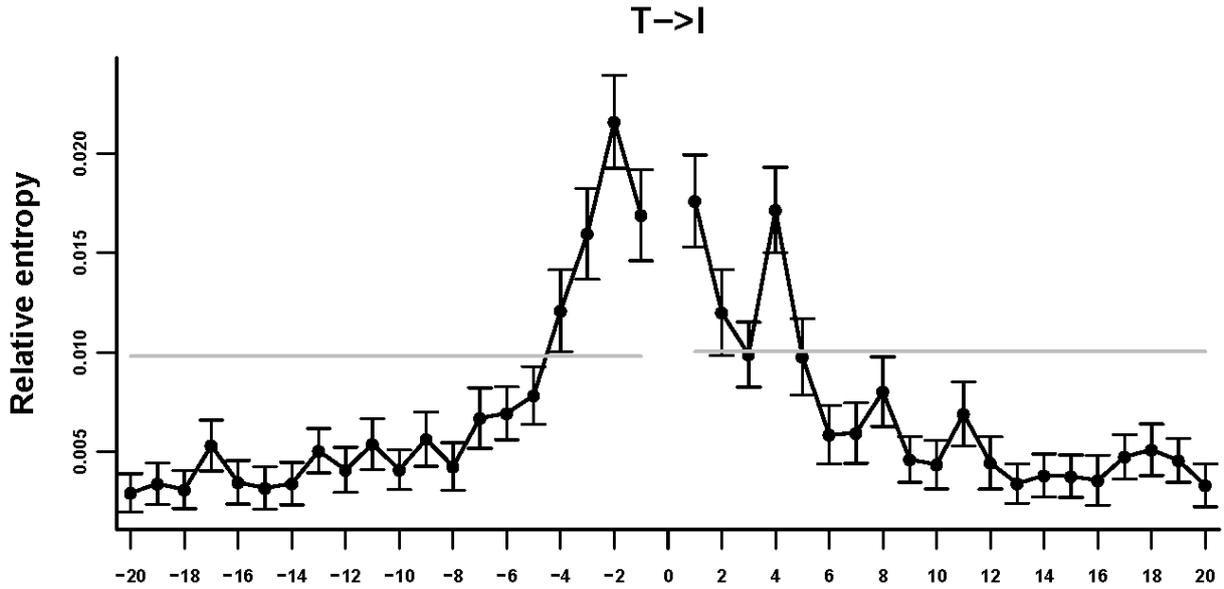


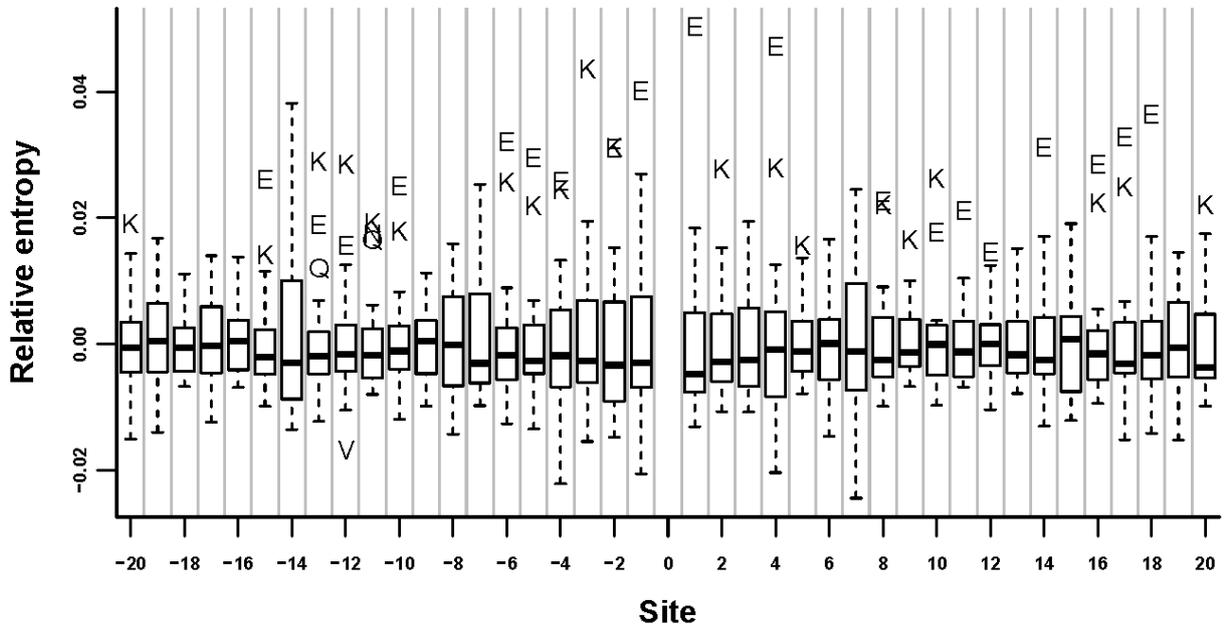
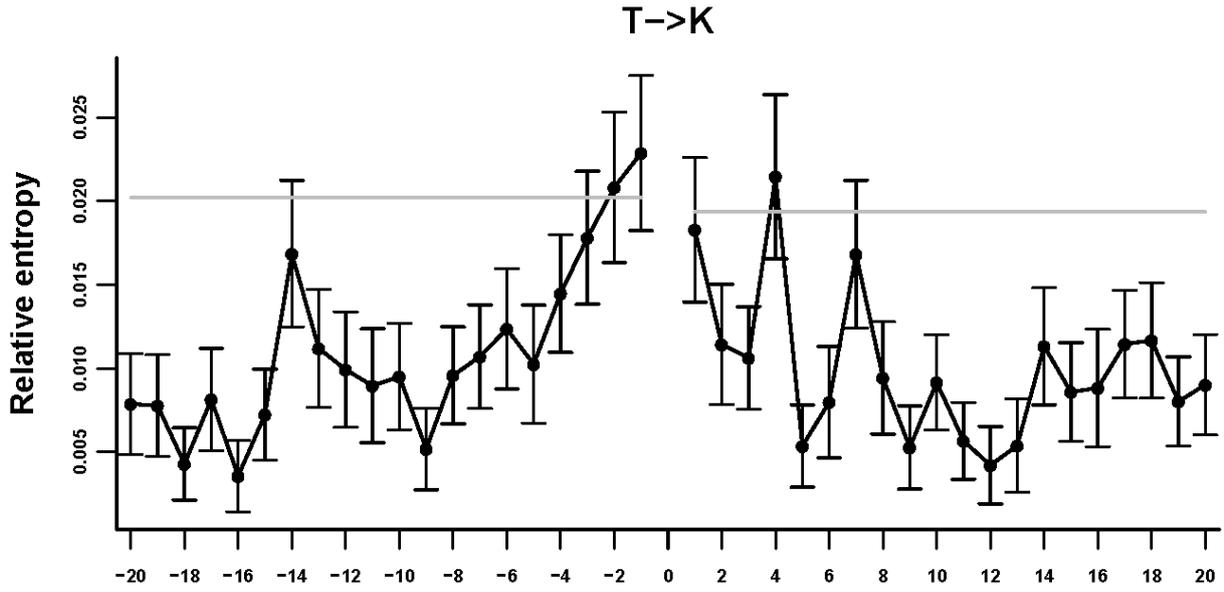


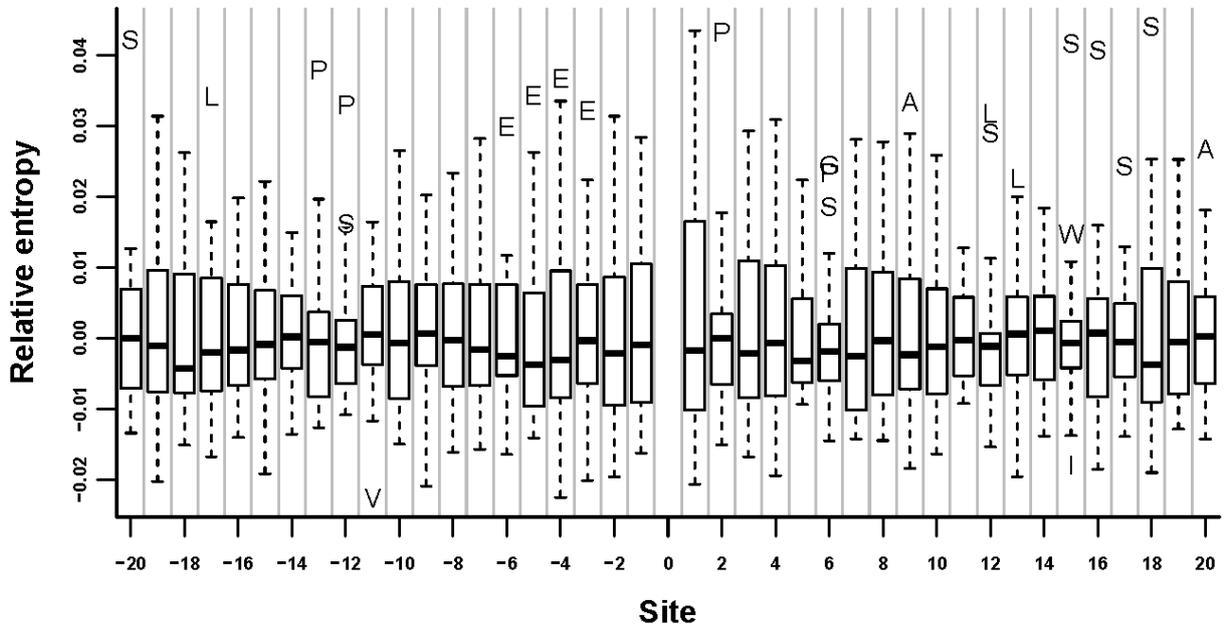
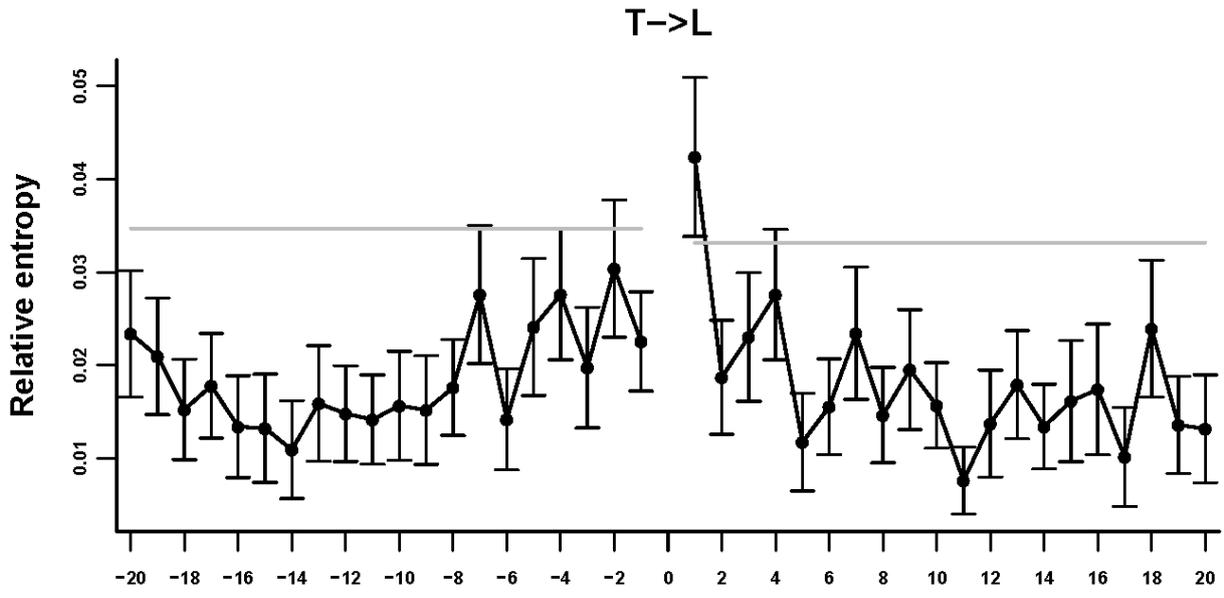


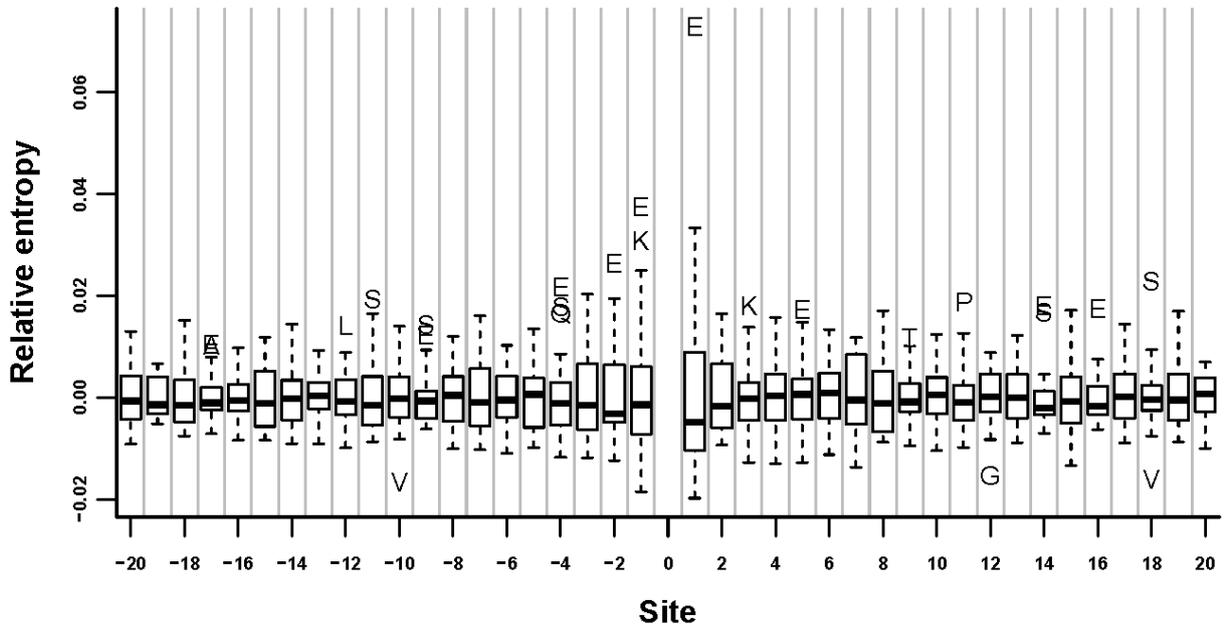
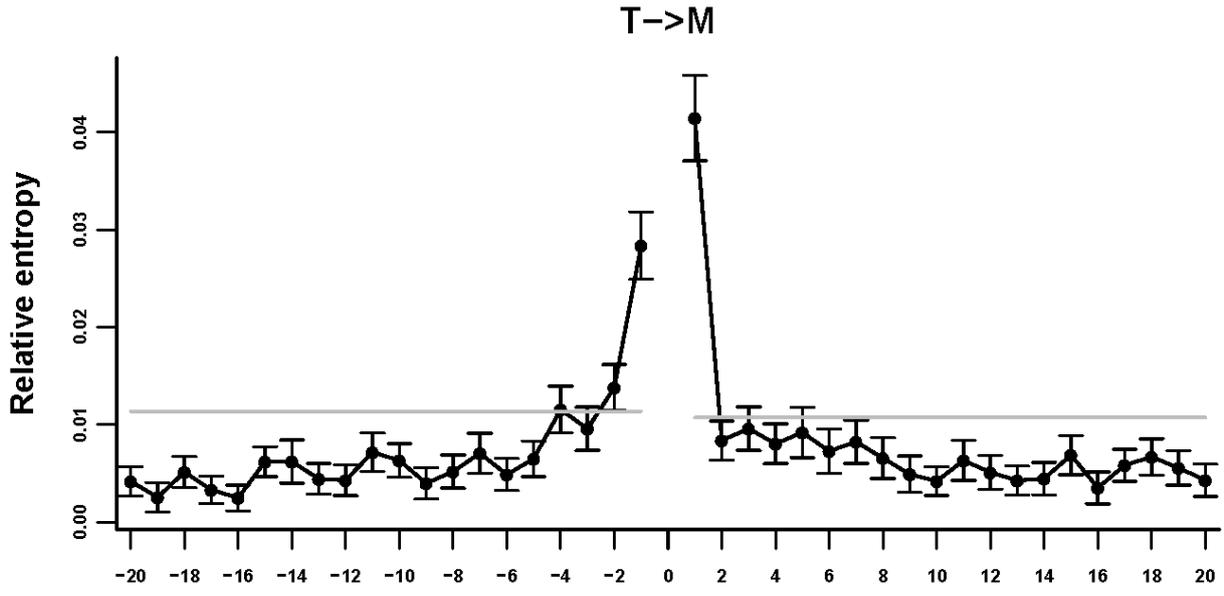




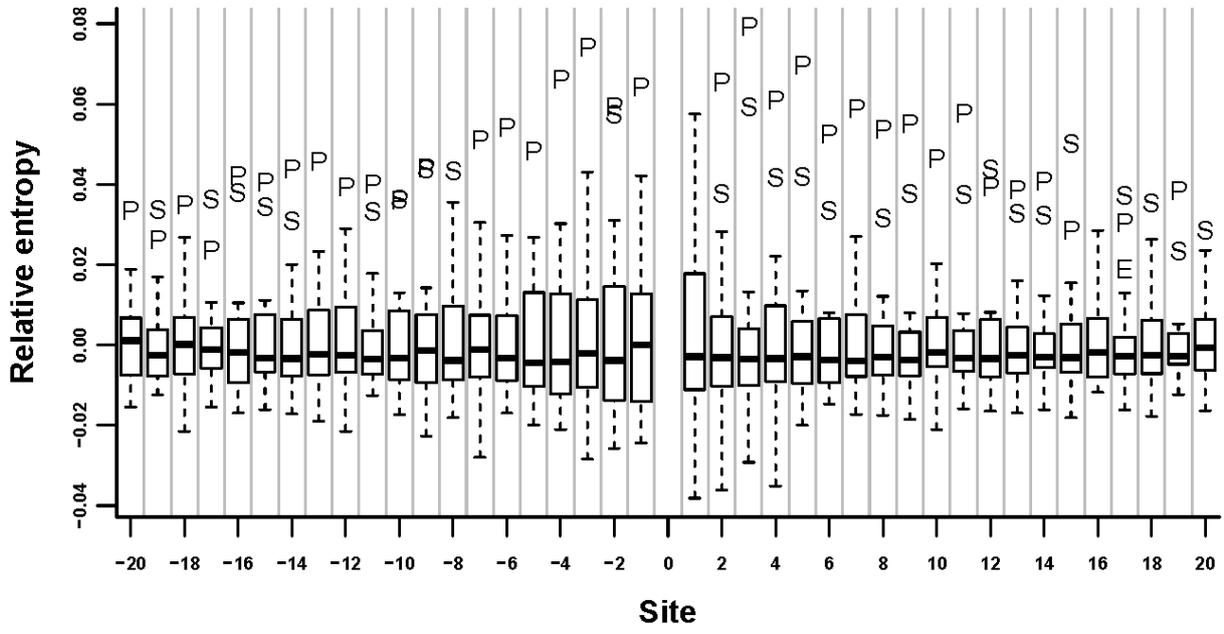
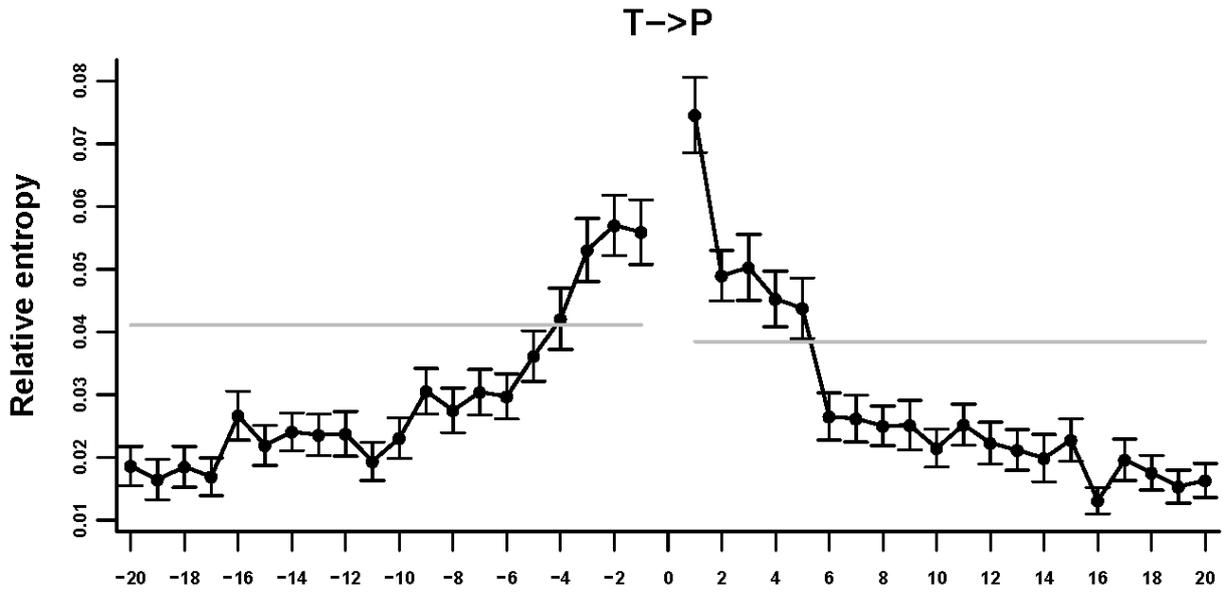


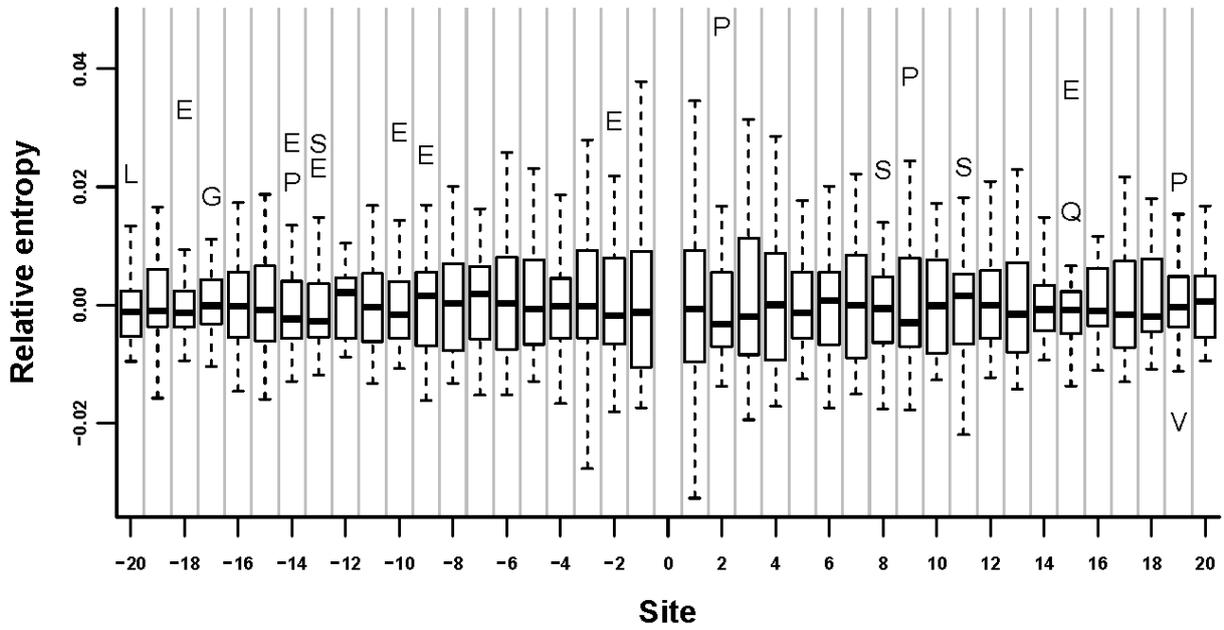
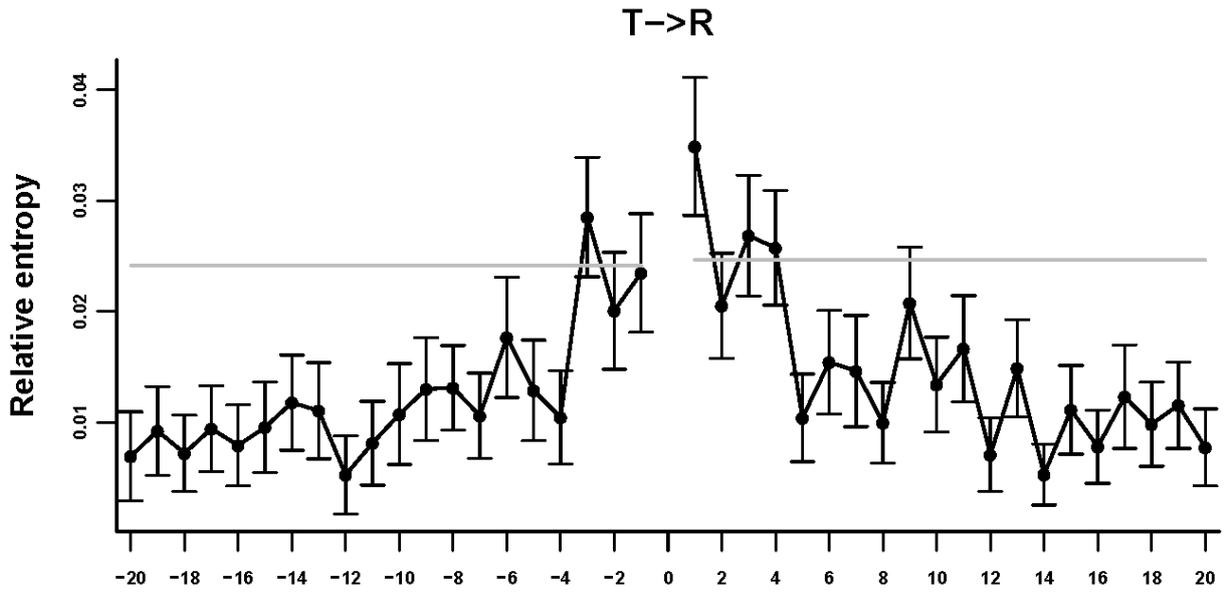


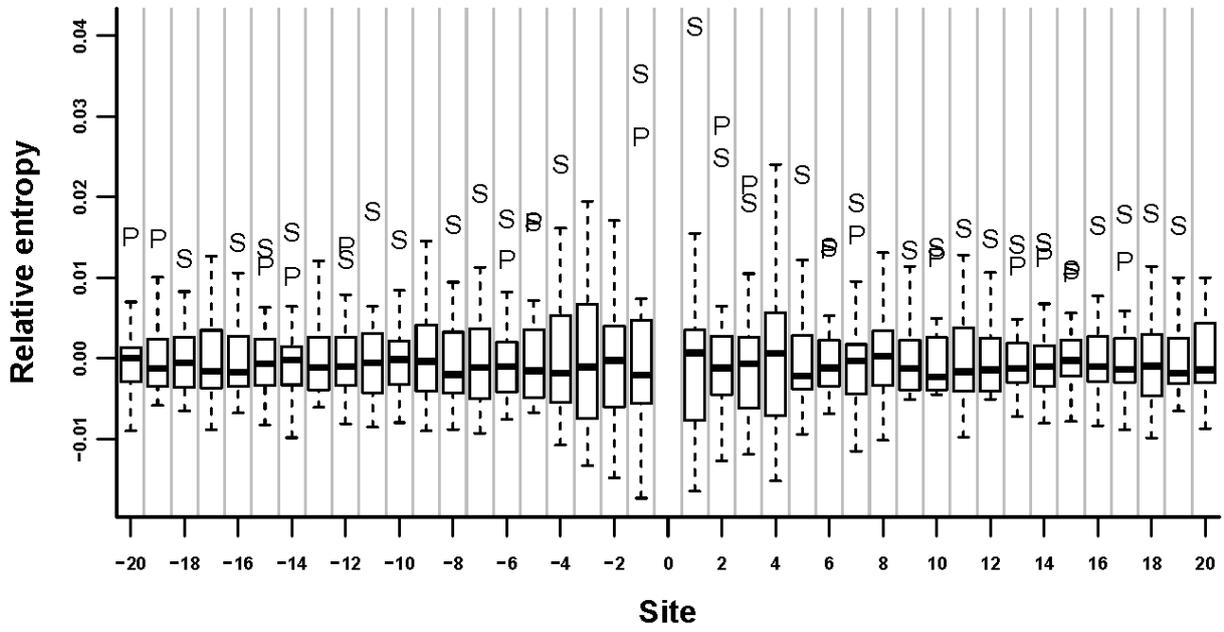
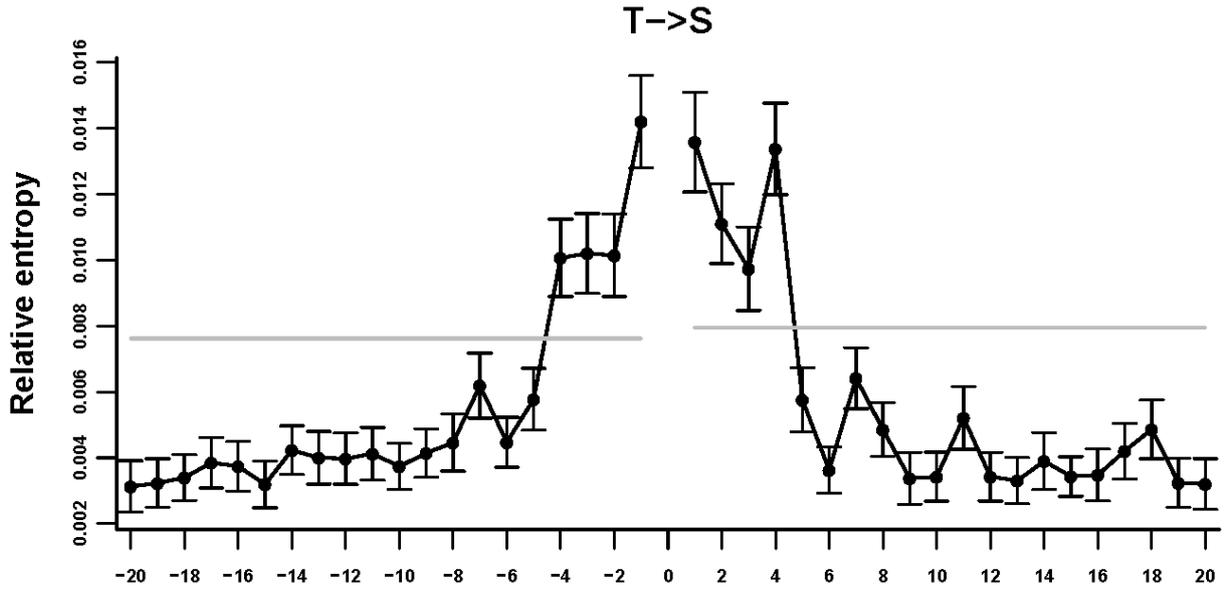


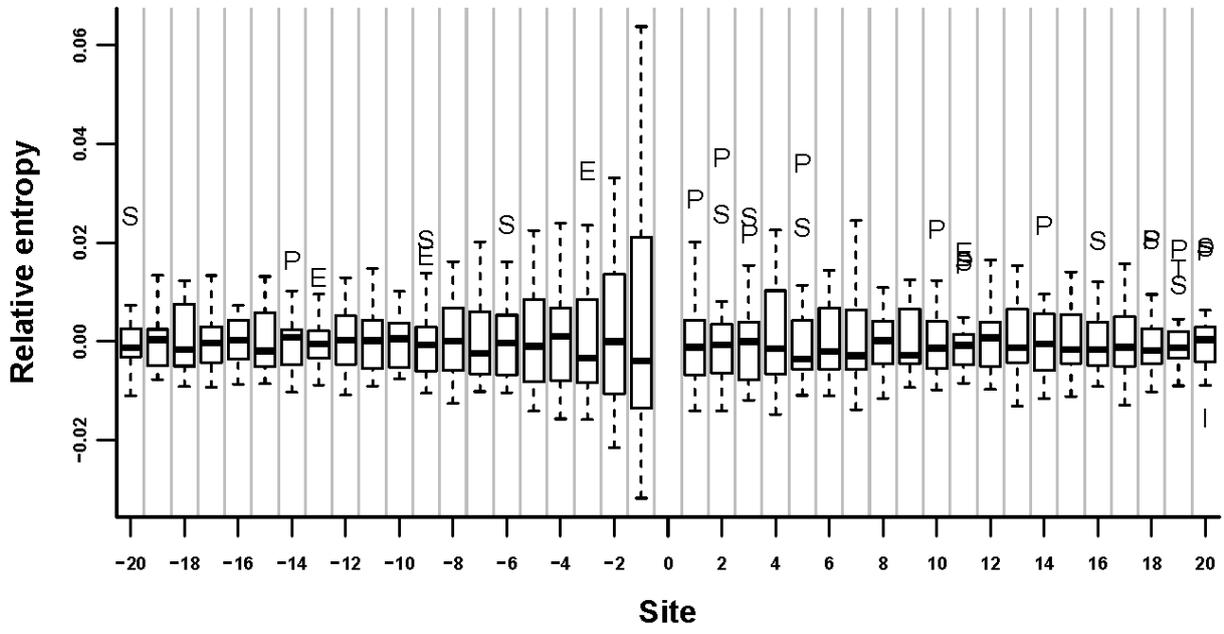
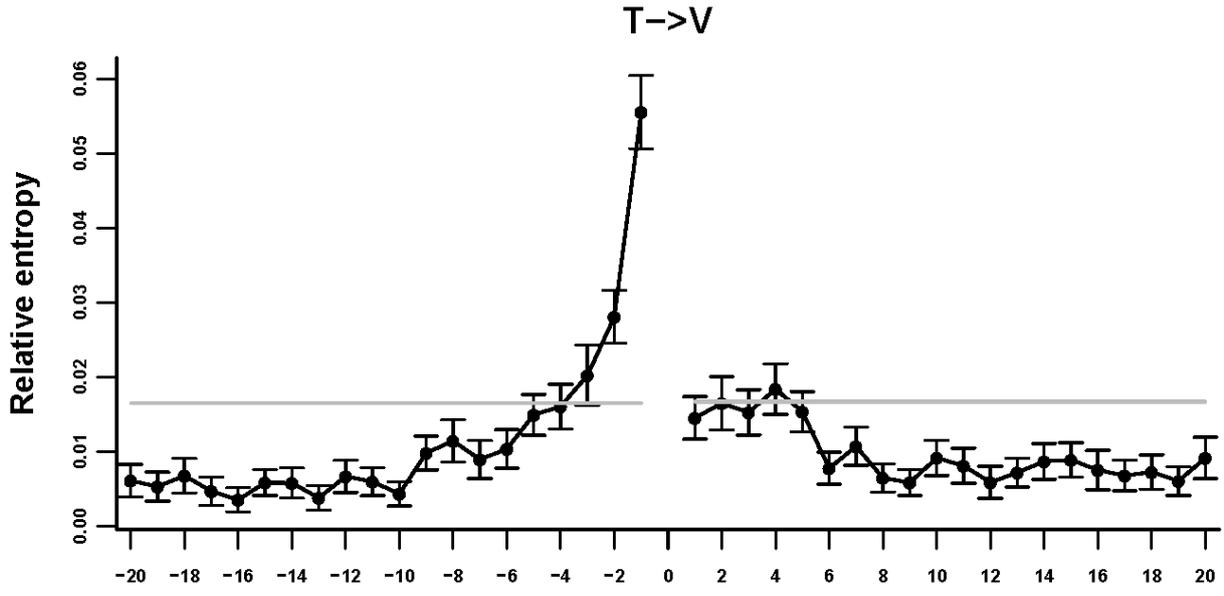


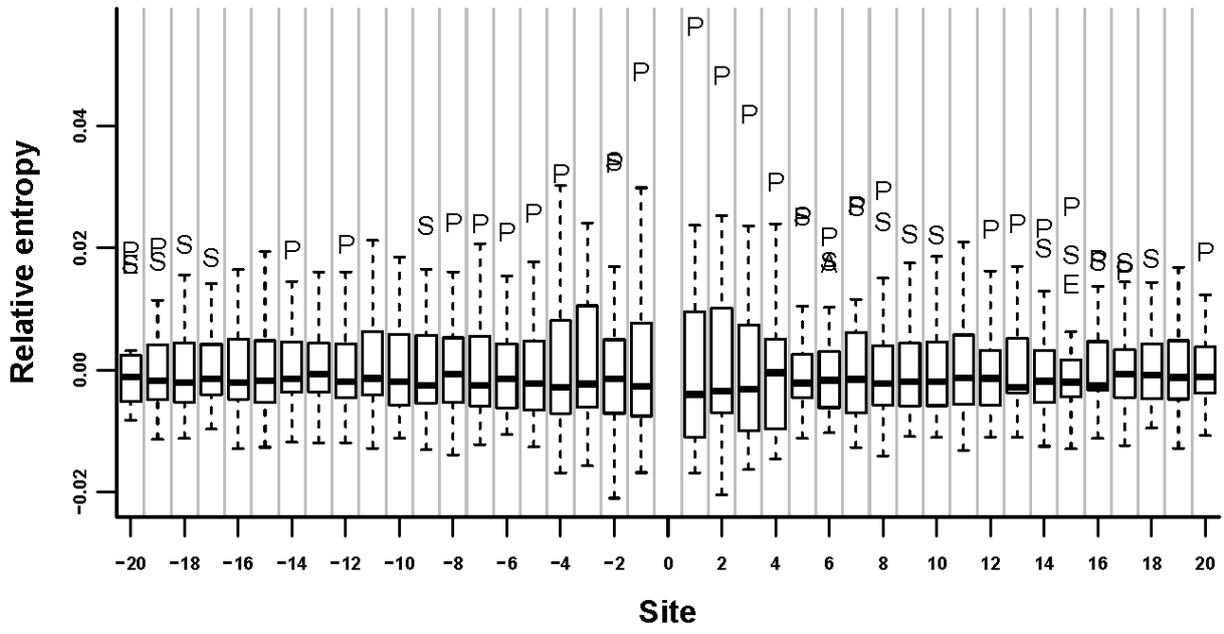
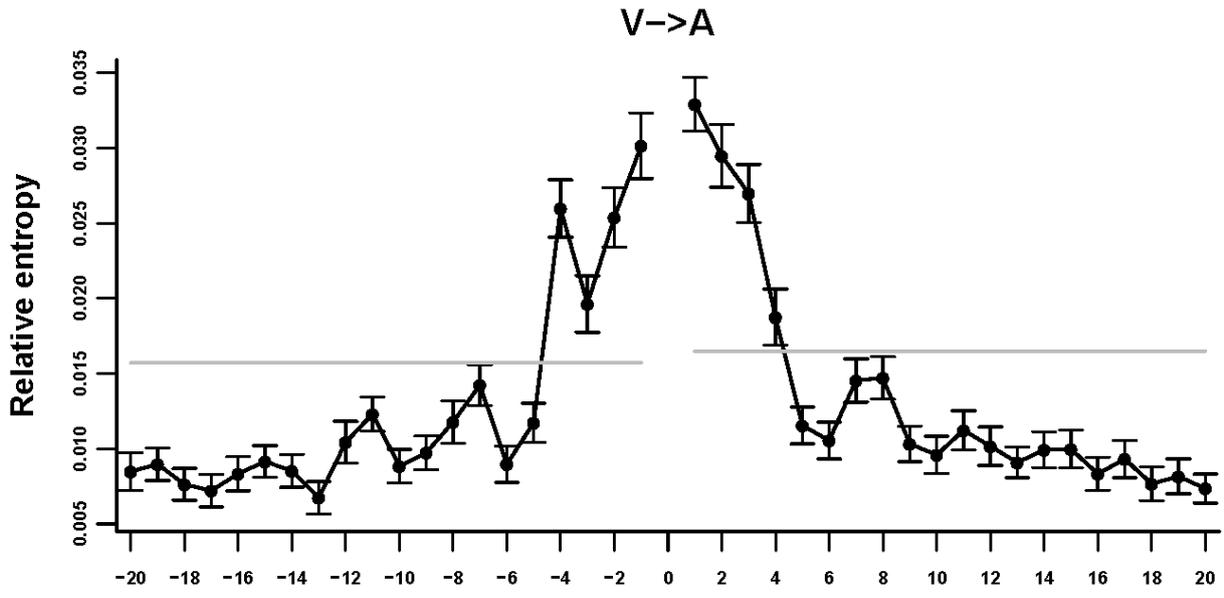


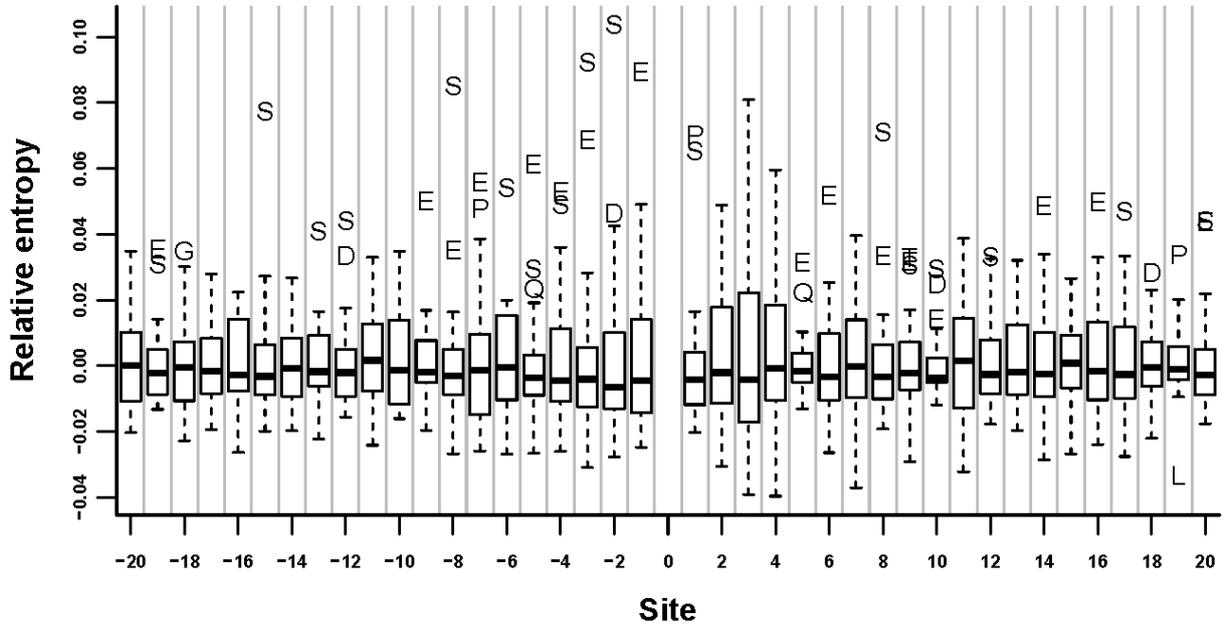
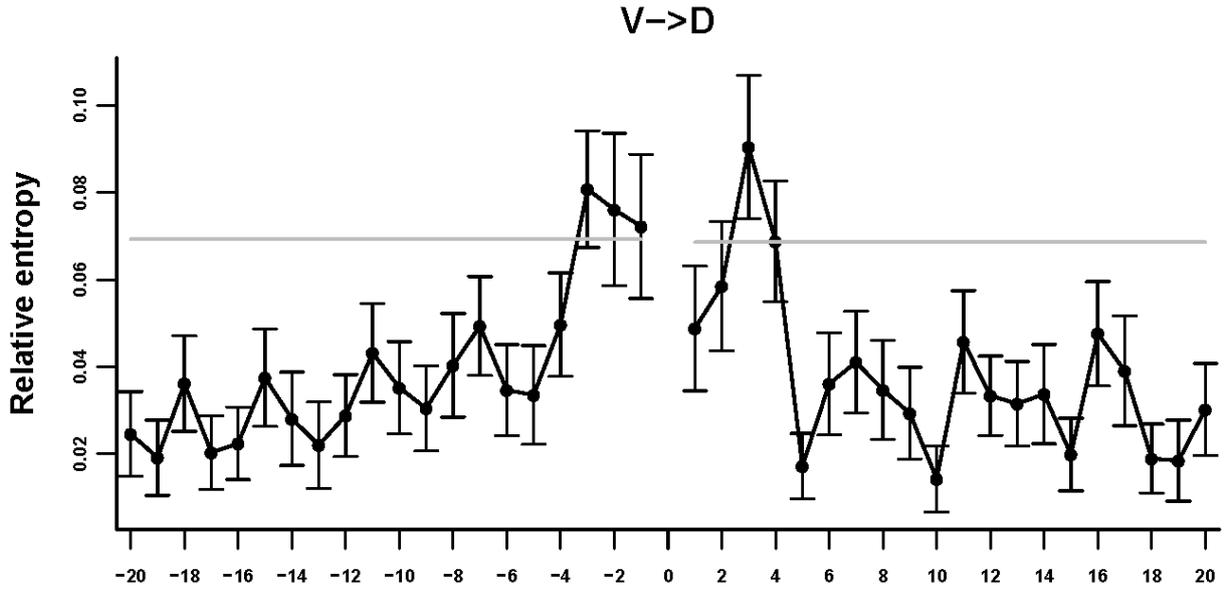


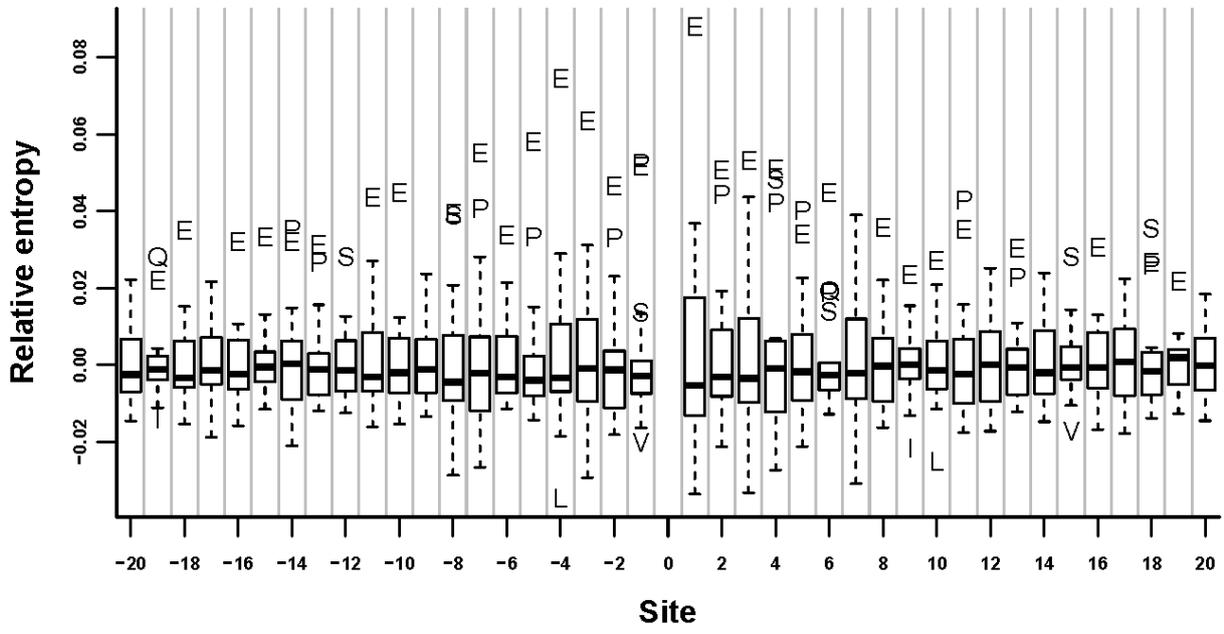
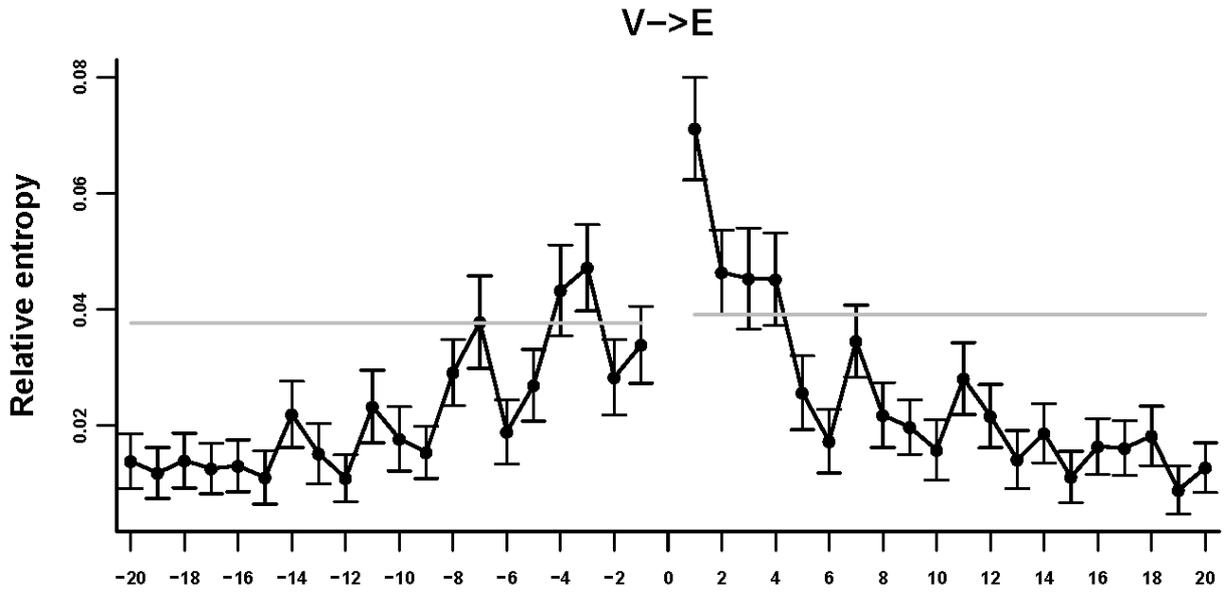


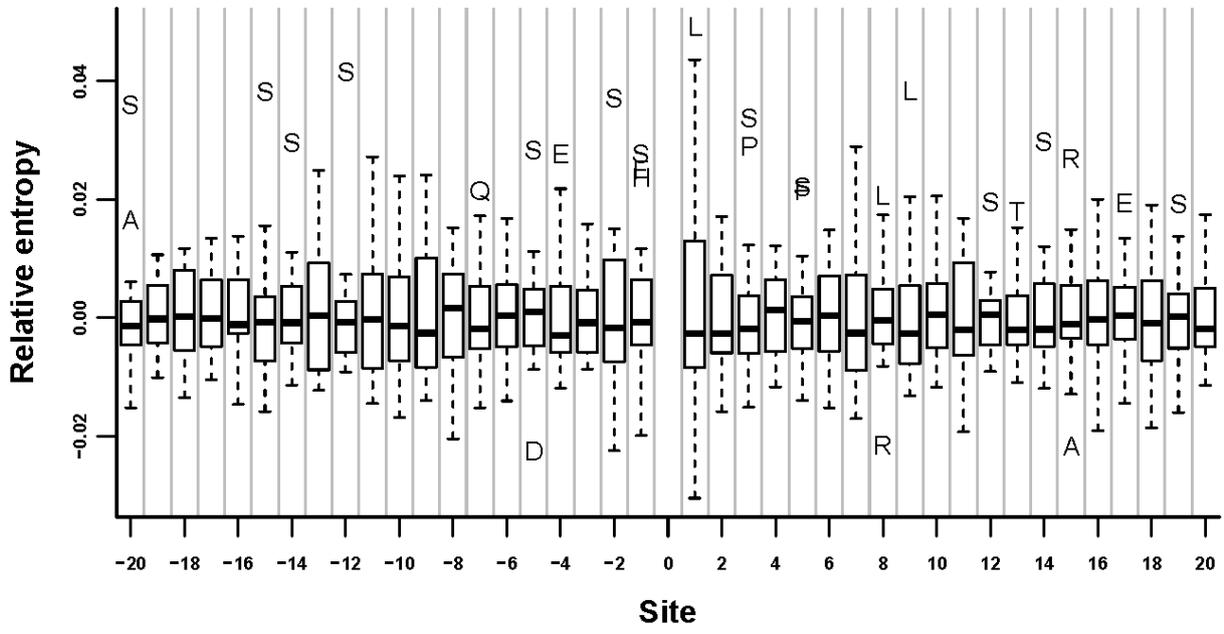
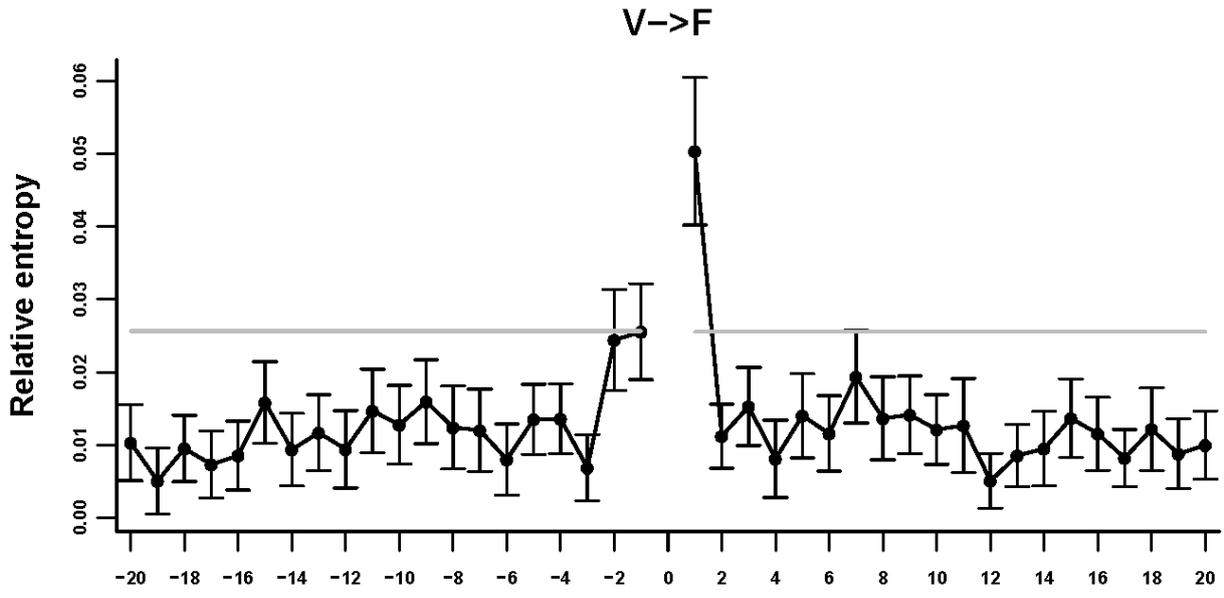


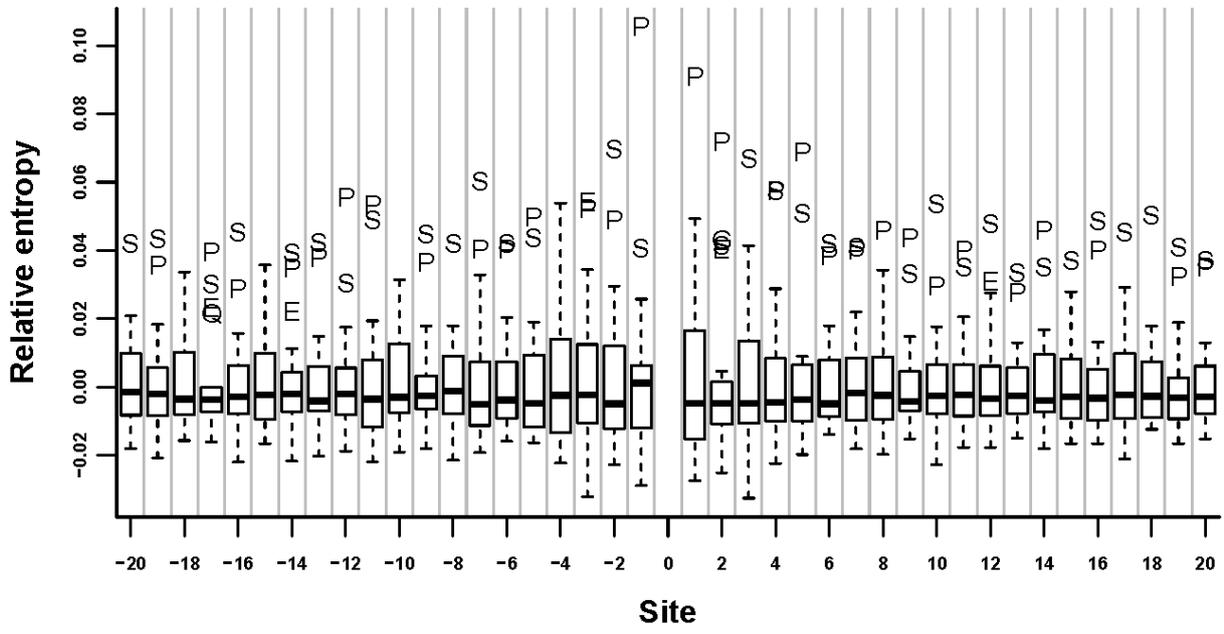
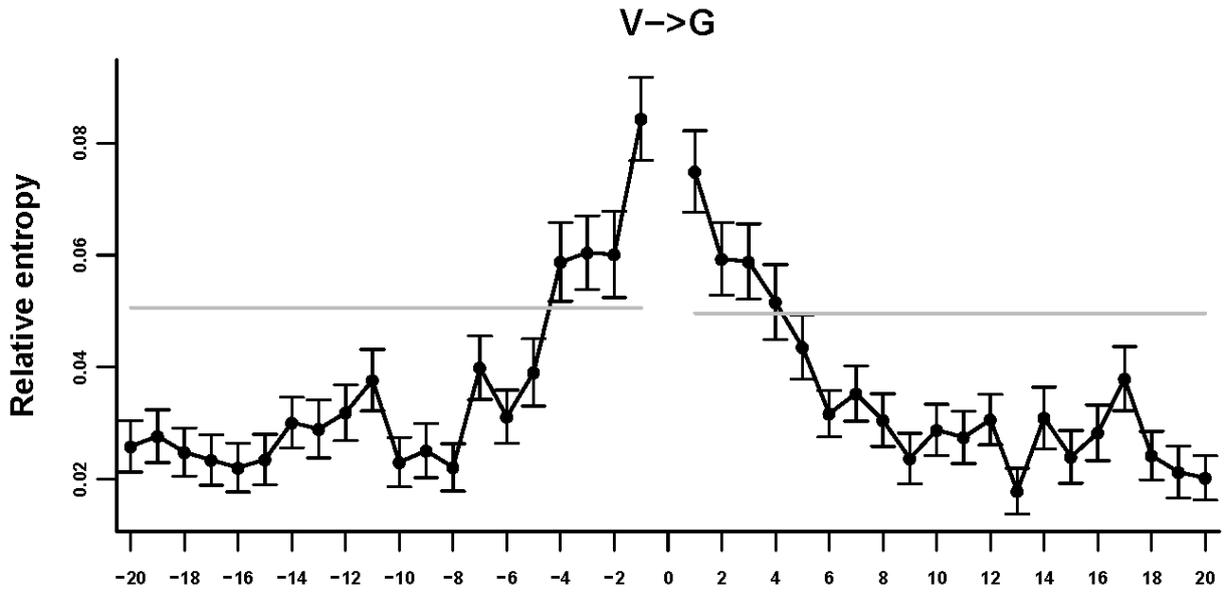


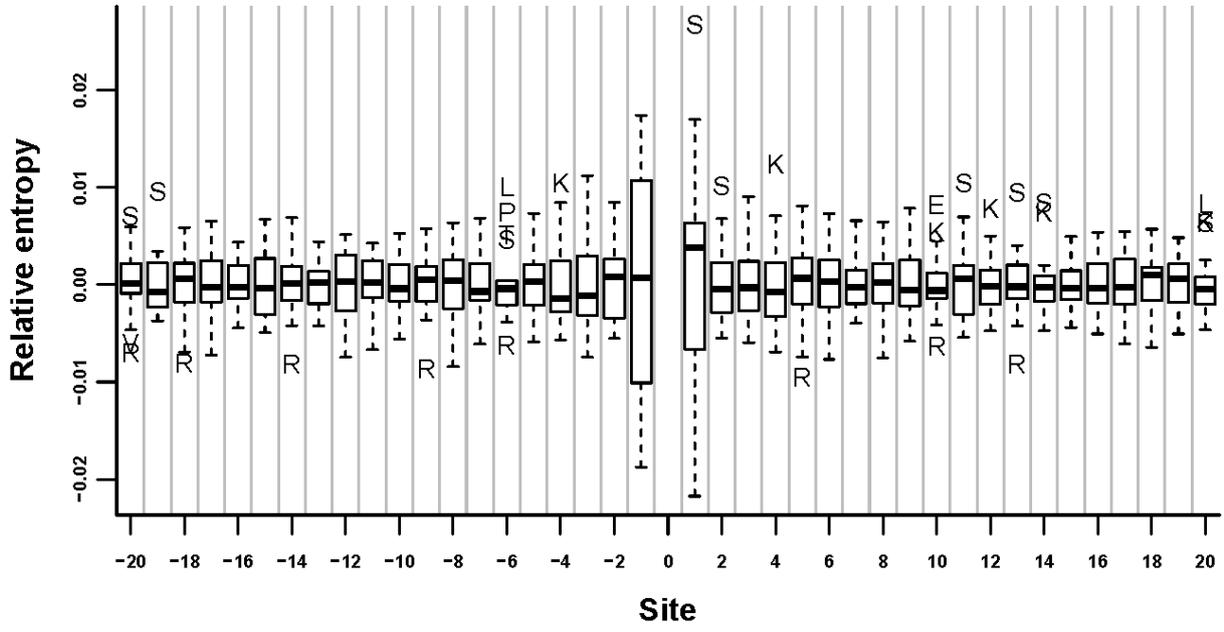
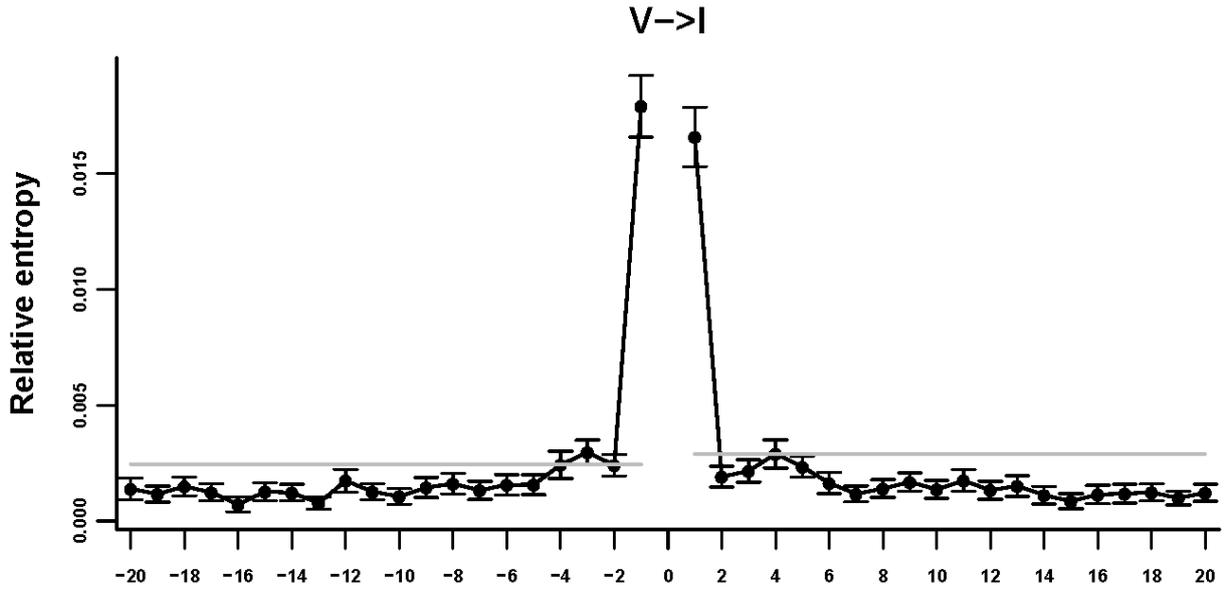


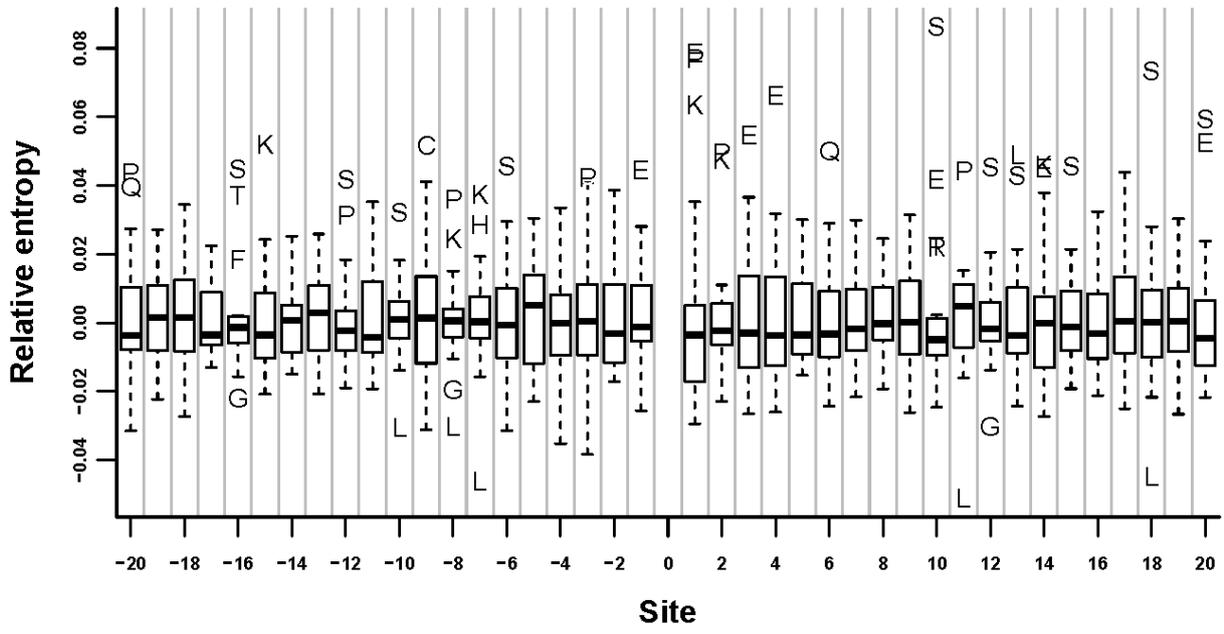
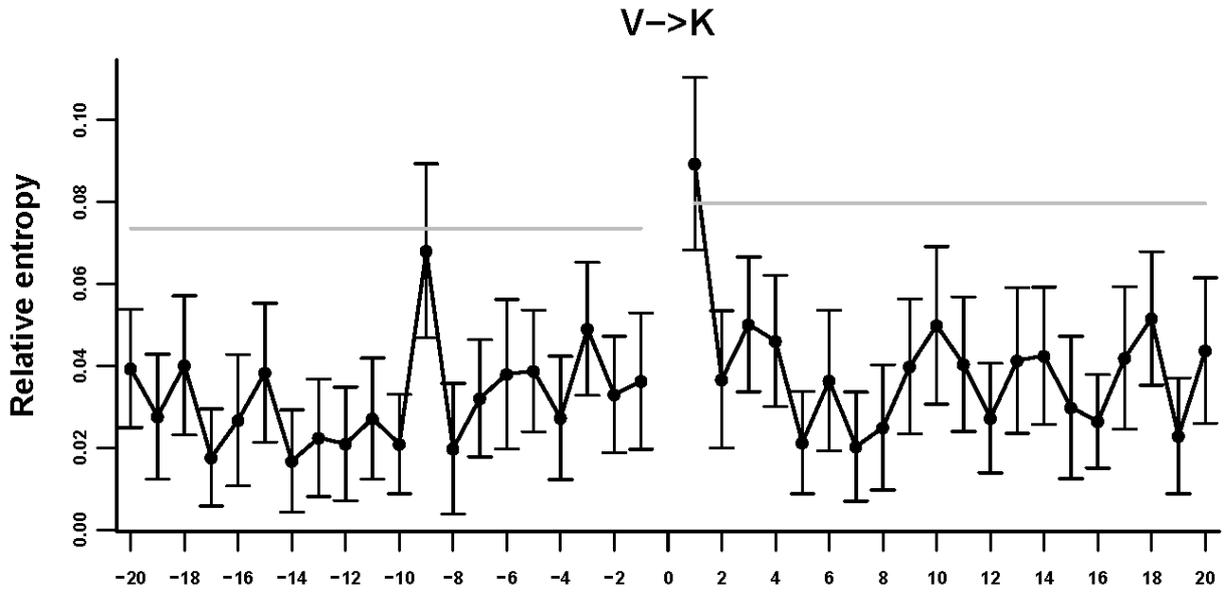


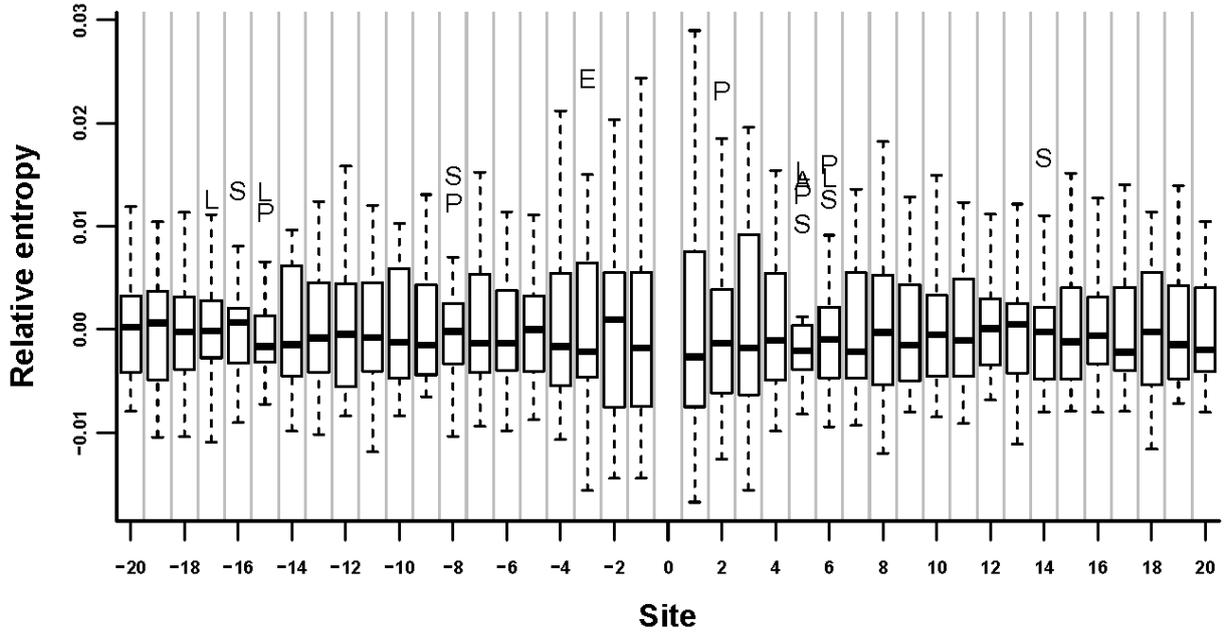
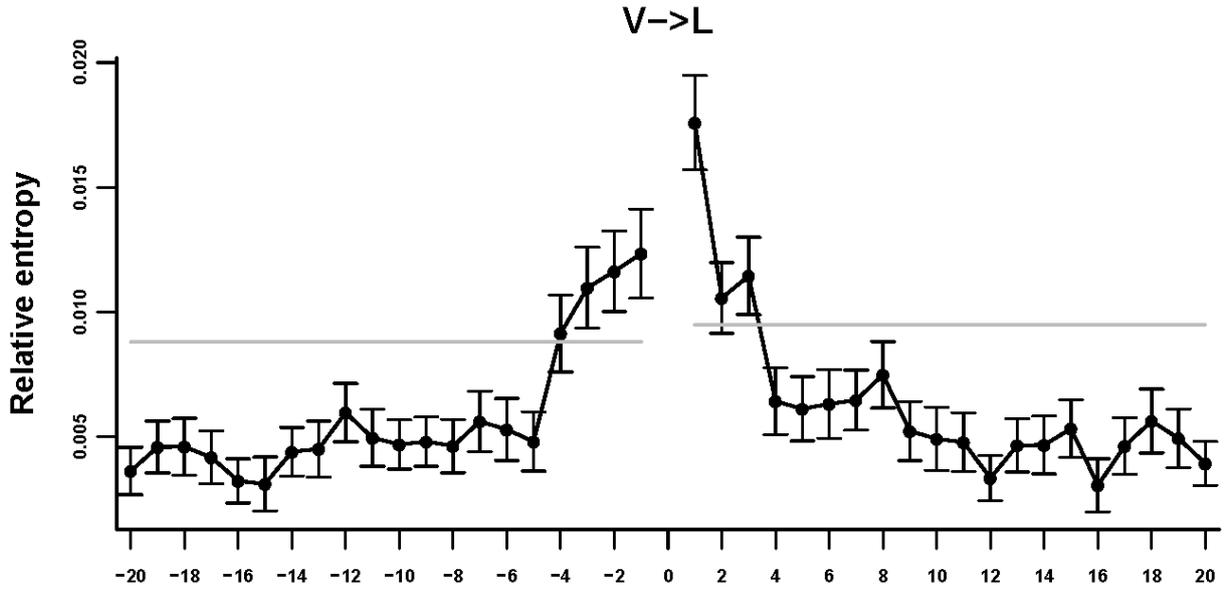


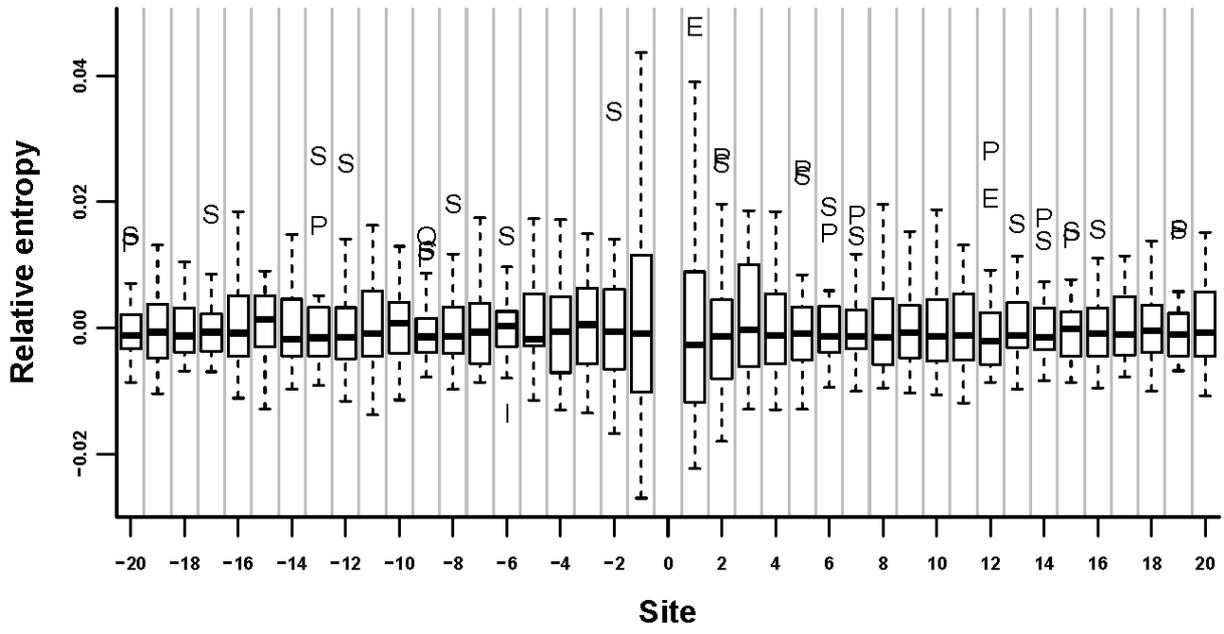
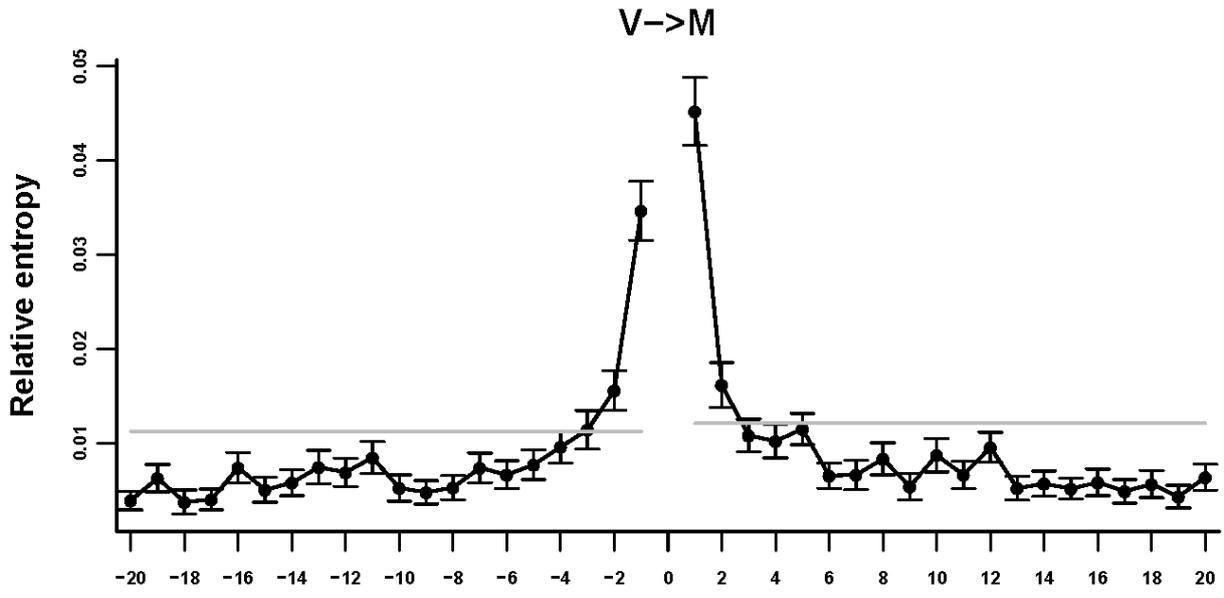


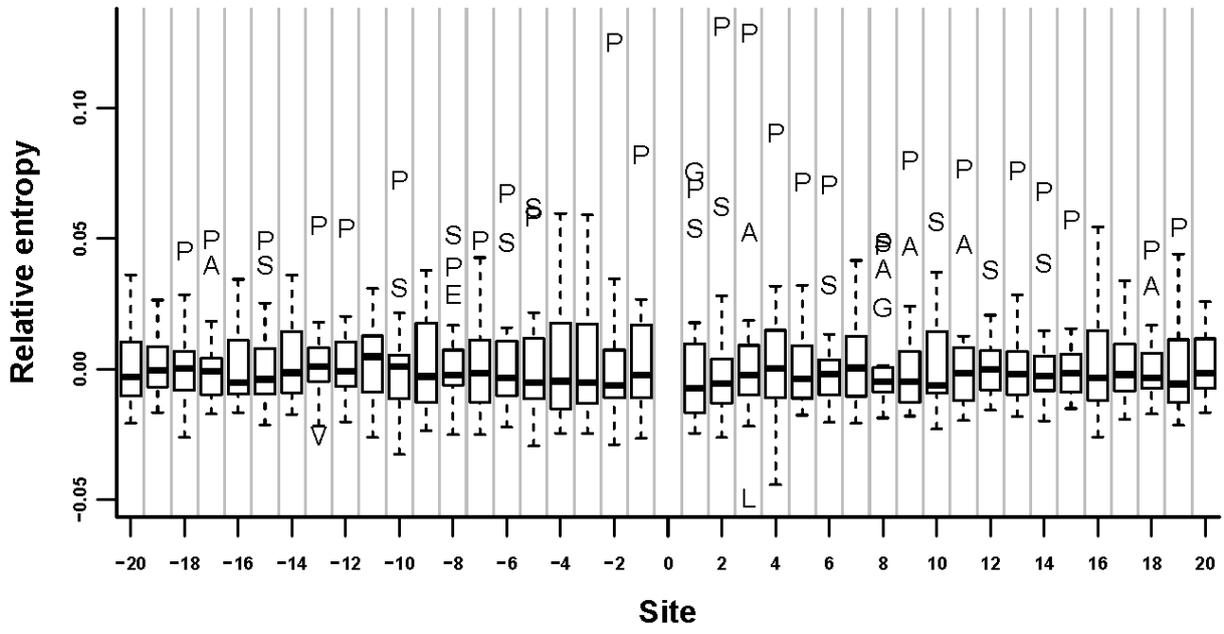
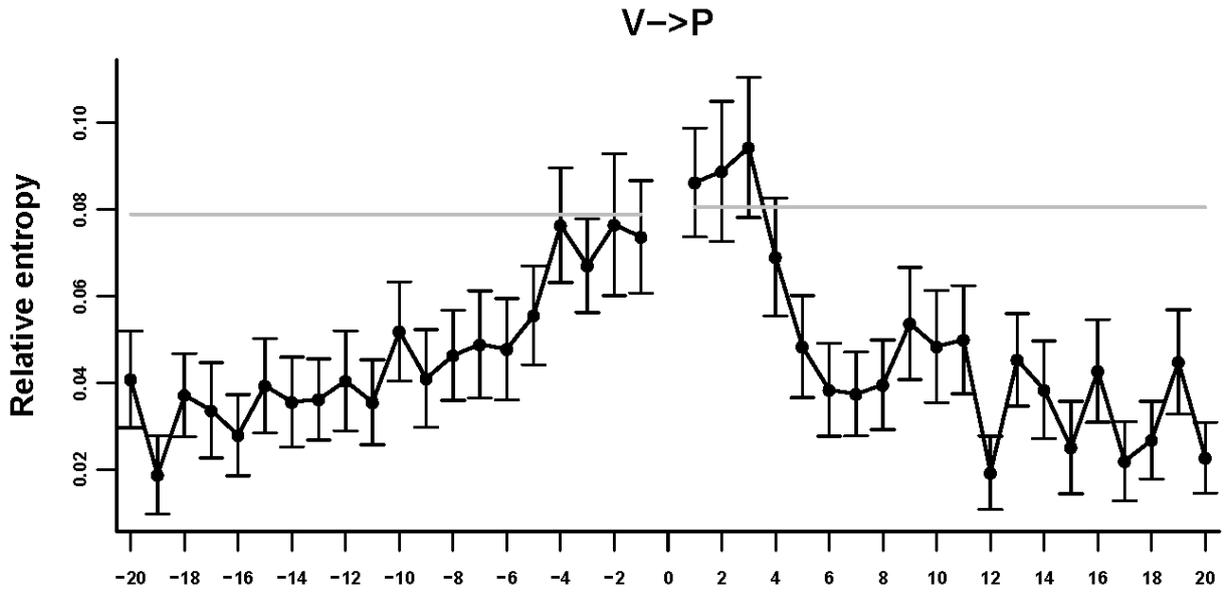


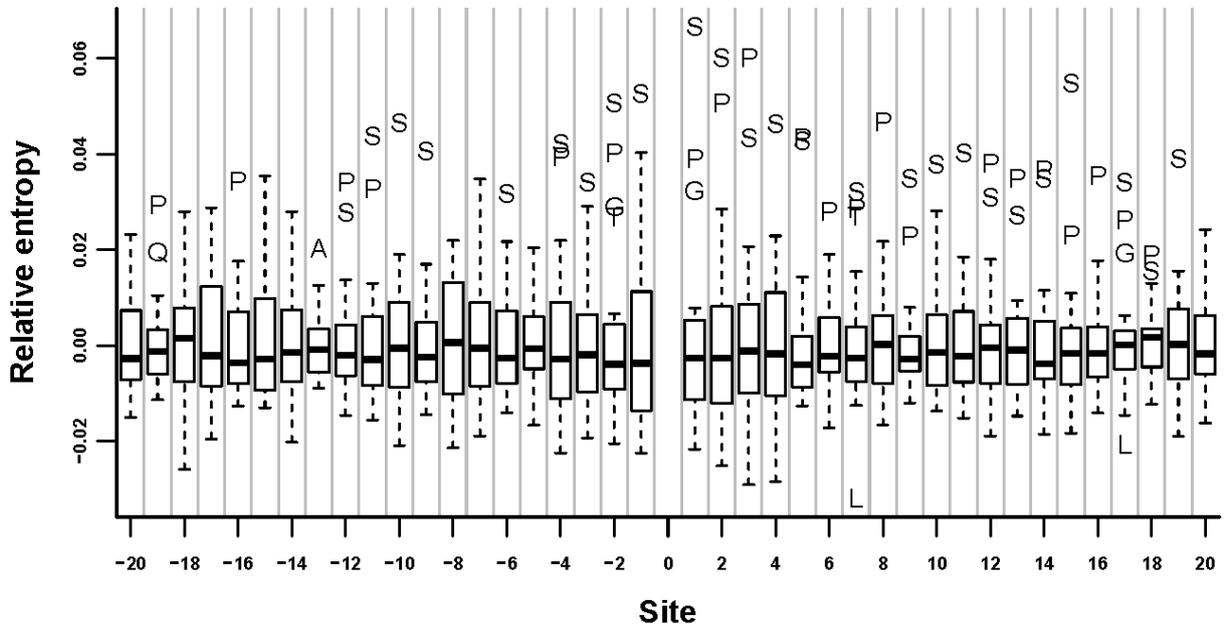
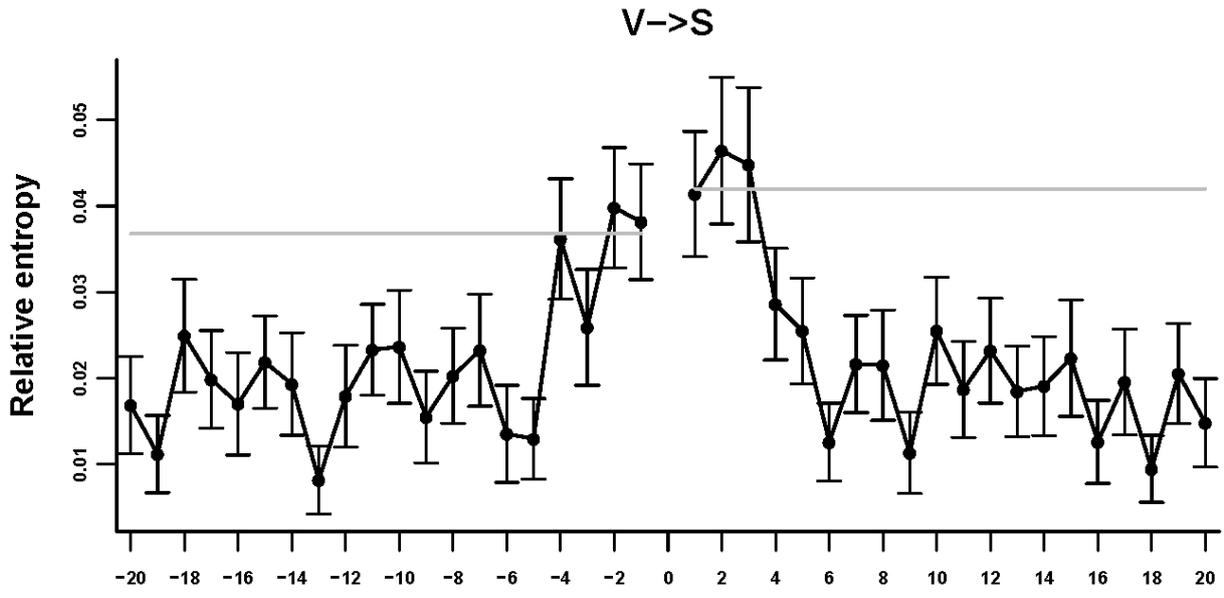




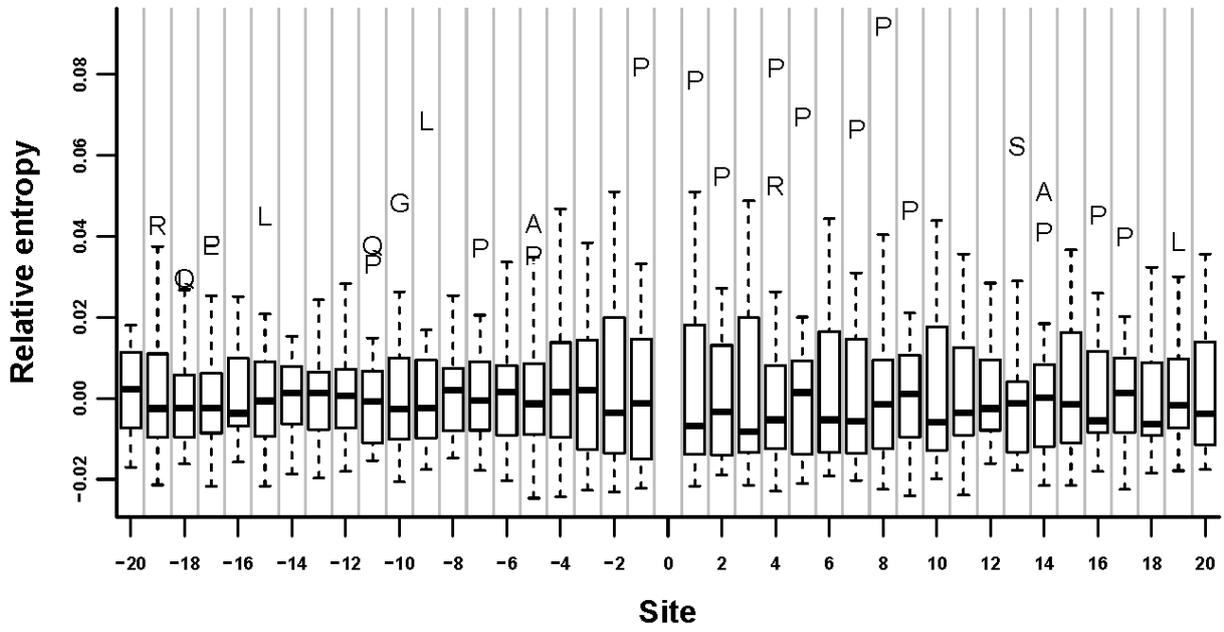
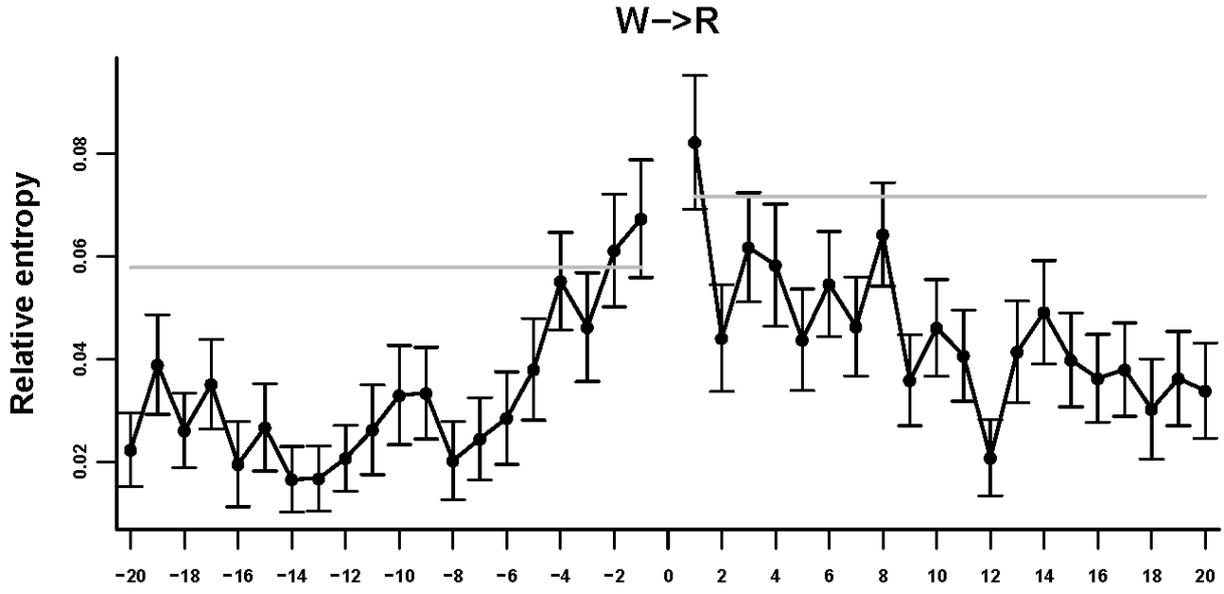


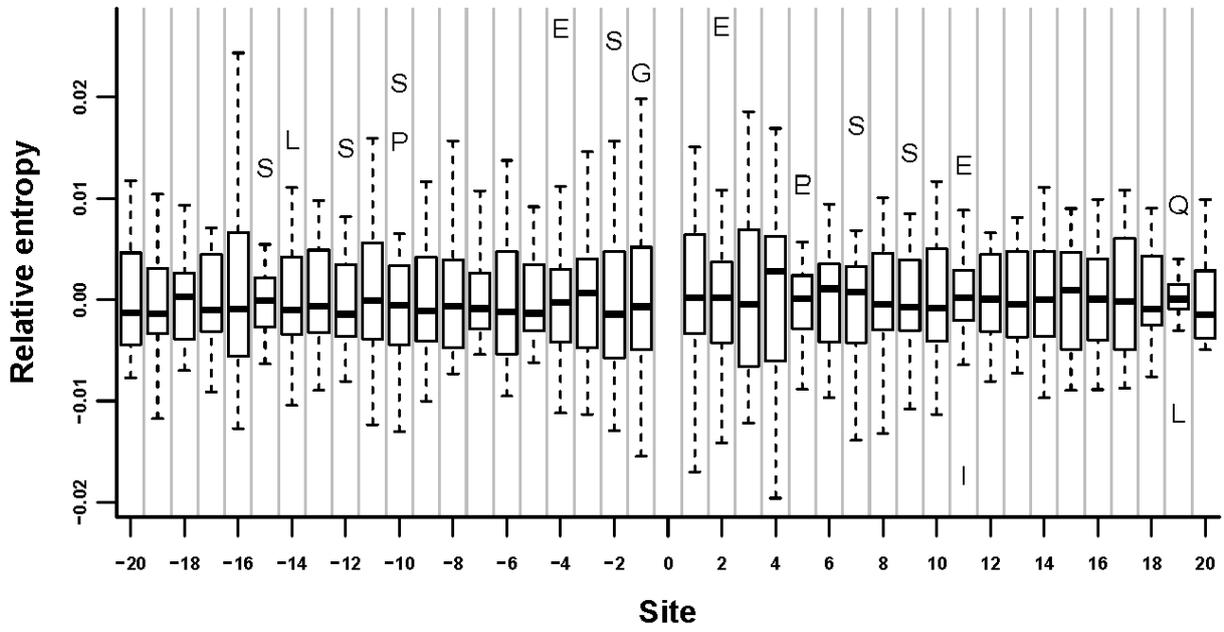
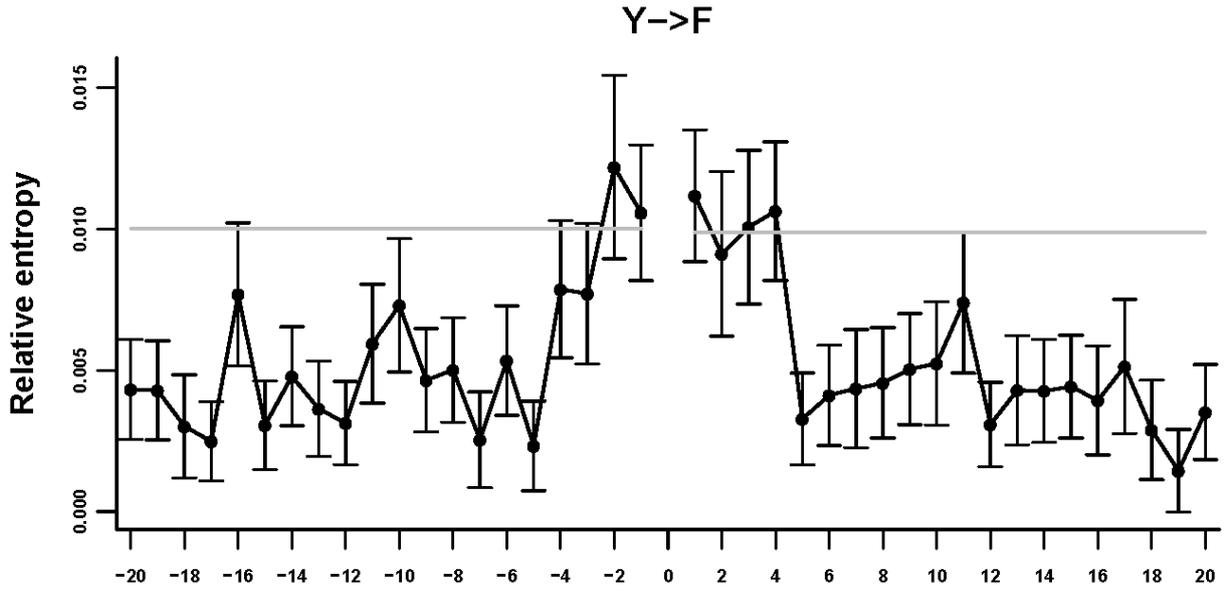


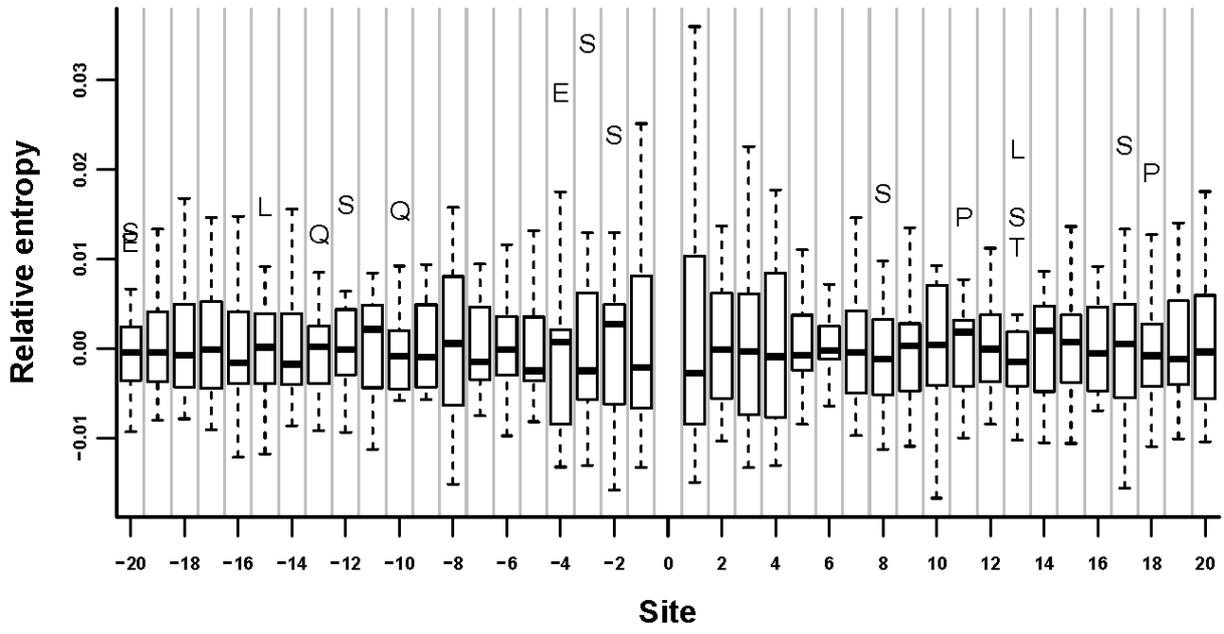
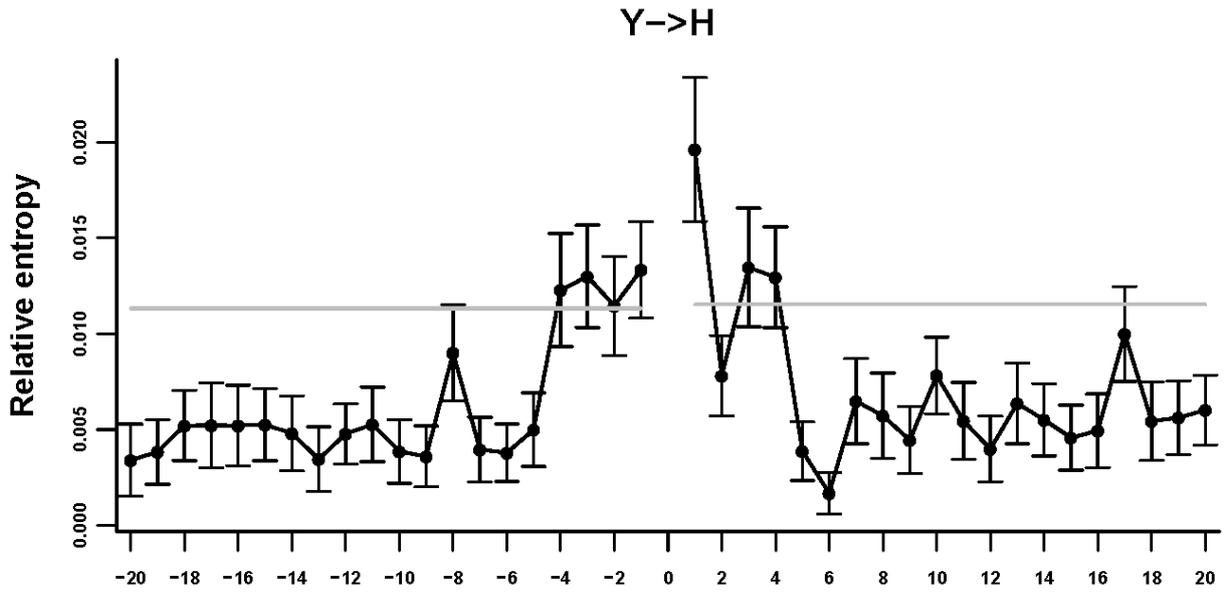


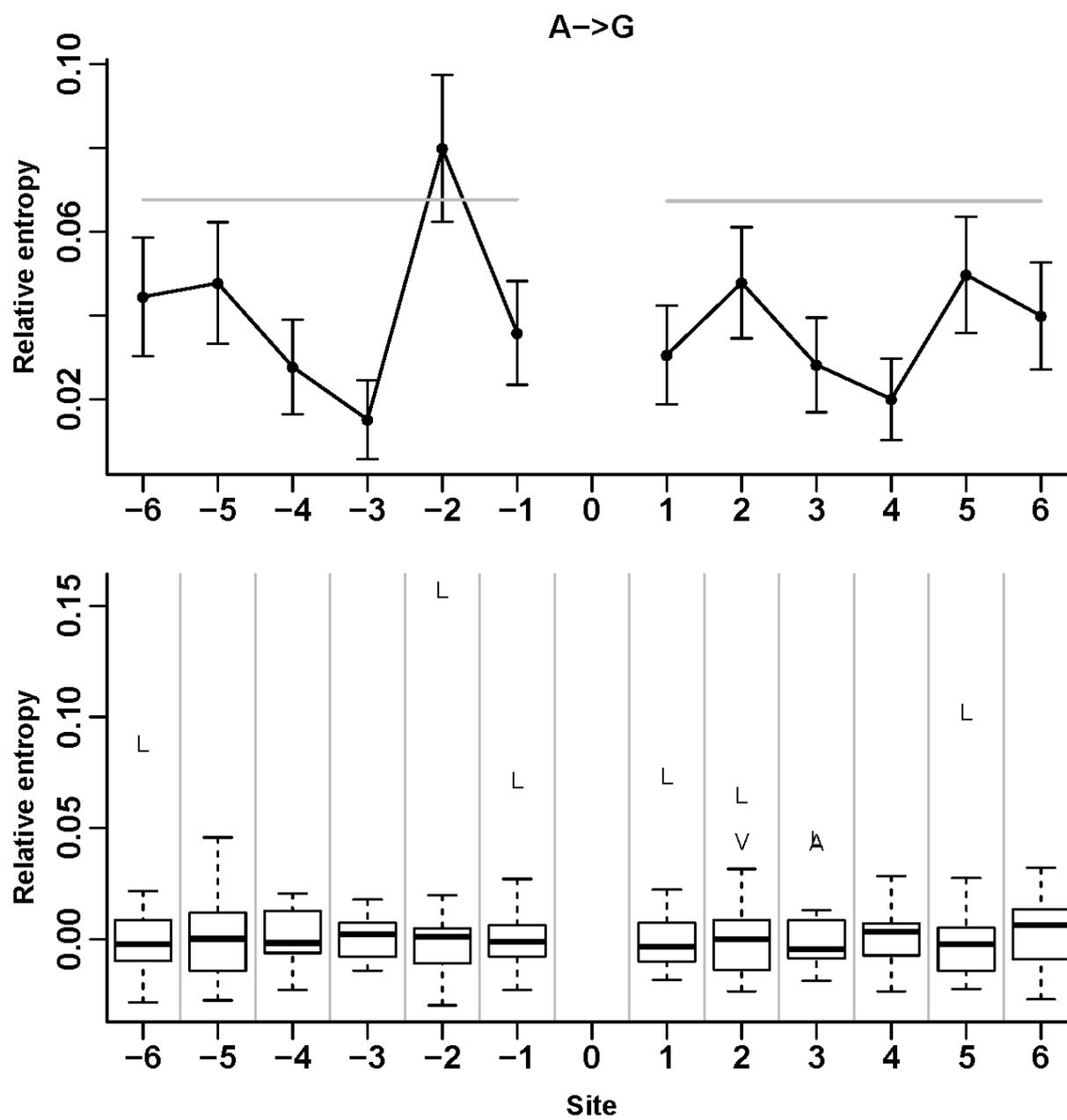




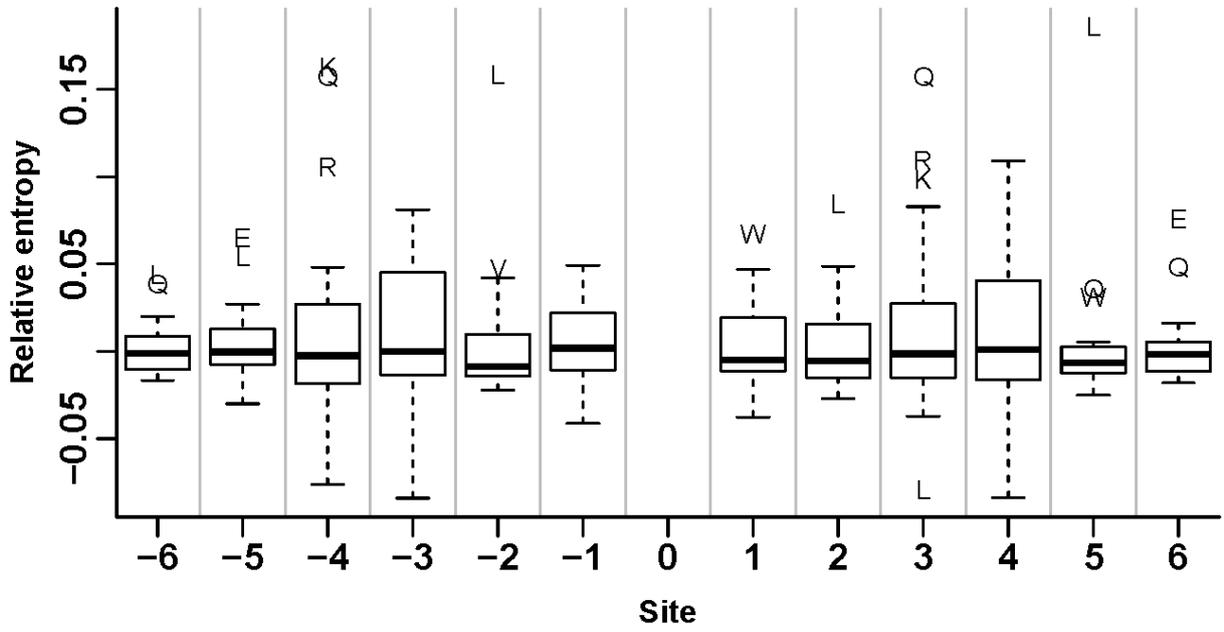
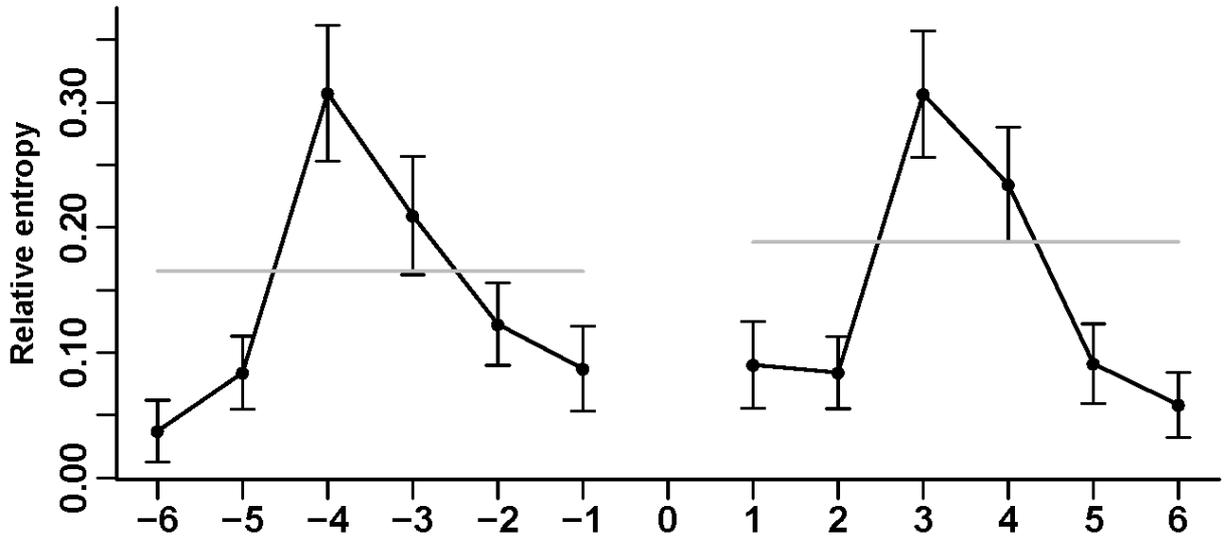




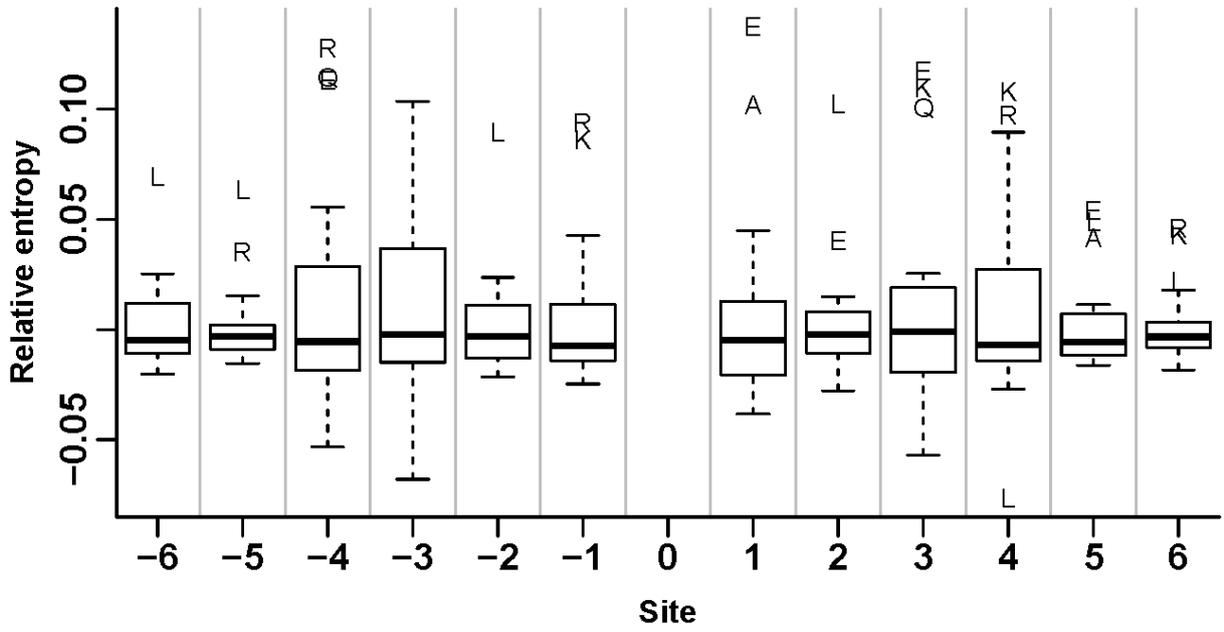
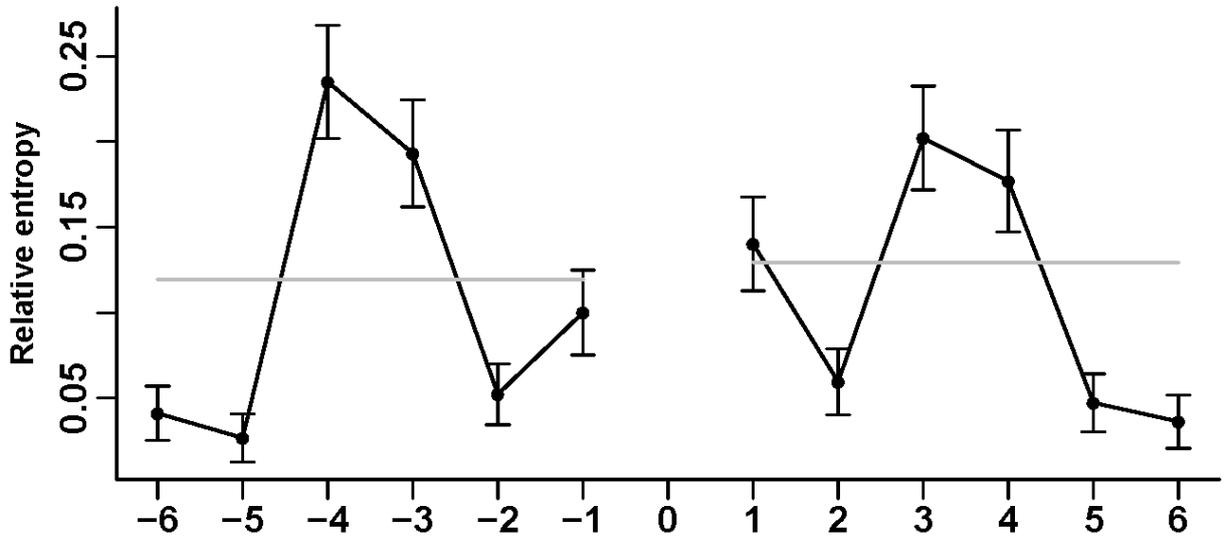


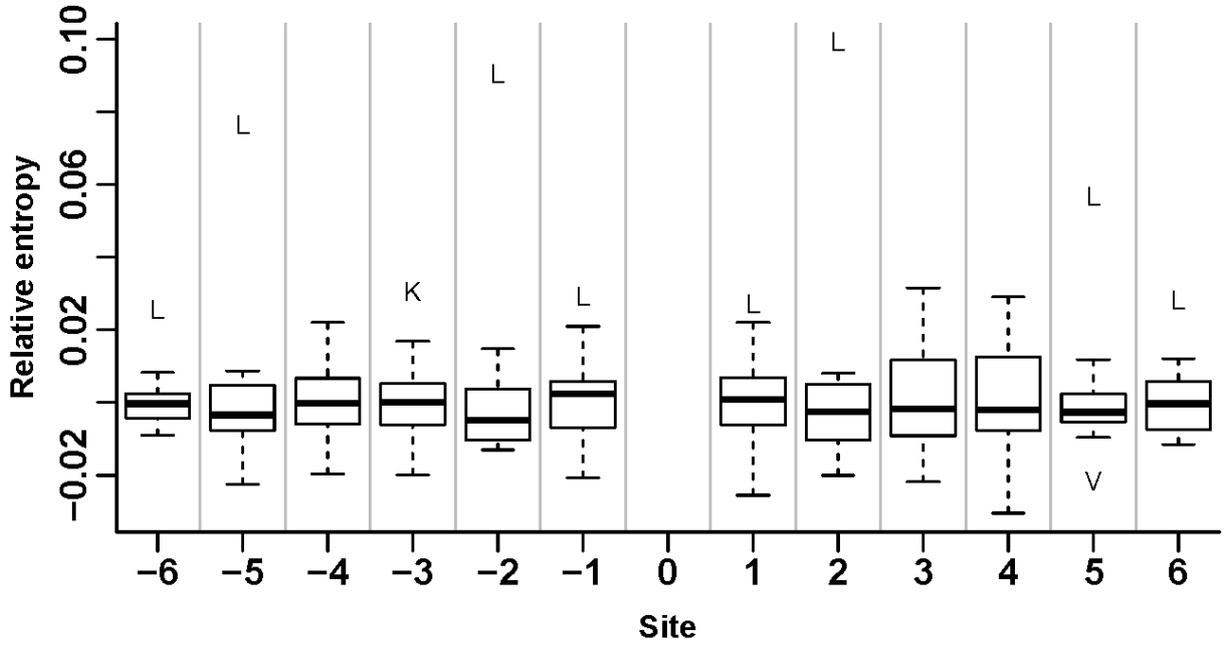
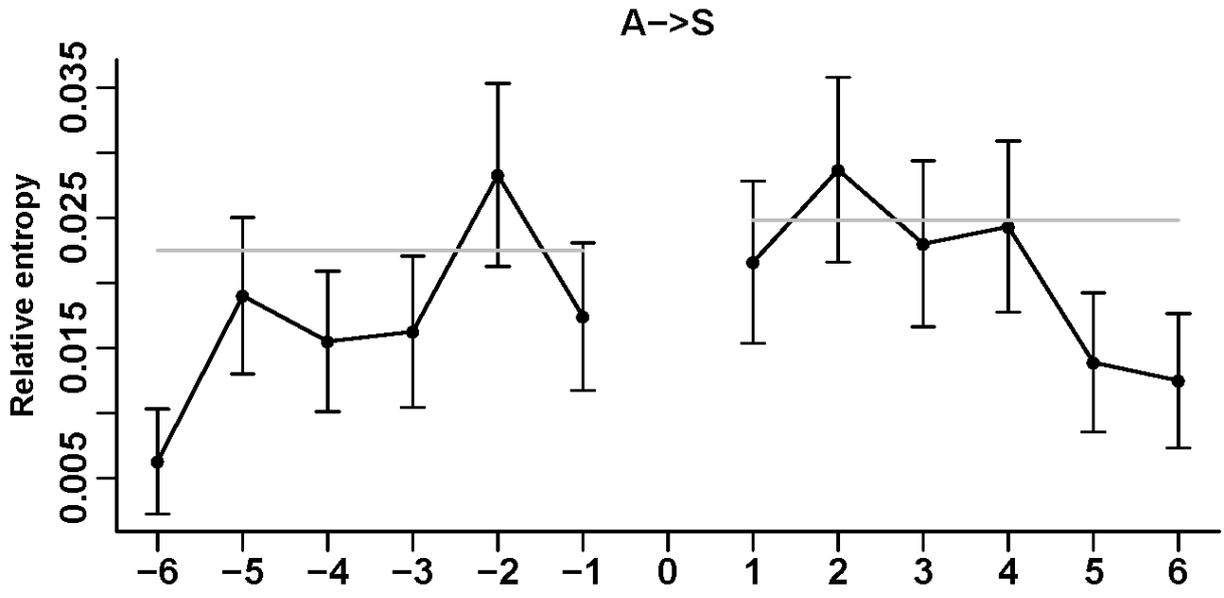
**Figure S6.** Context-dependence patterns of the amino acid substitutions in  $\alpha$ -helix.

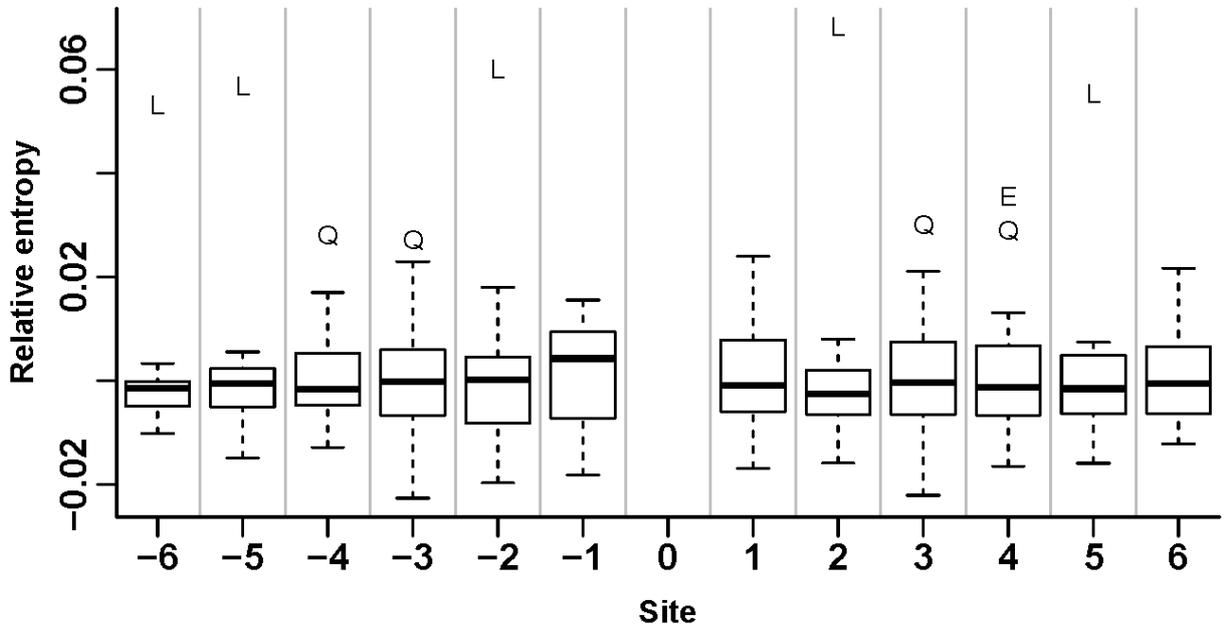
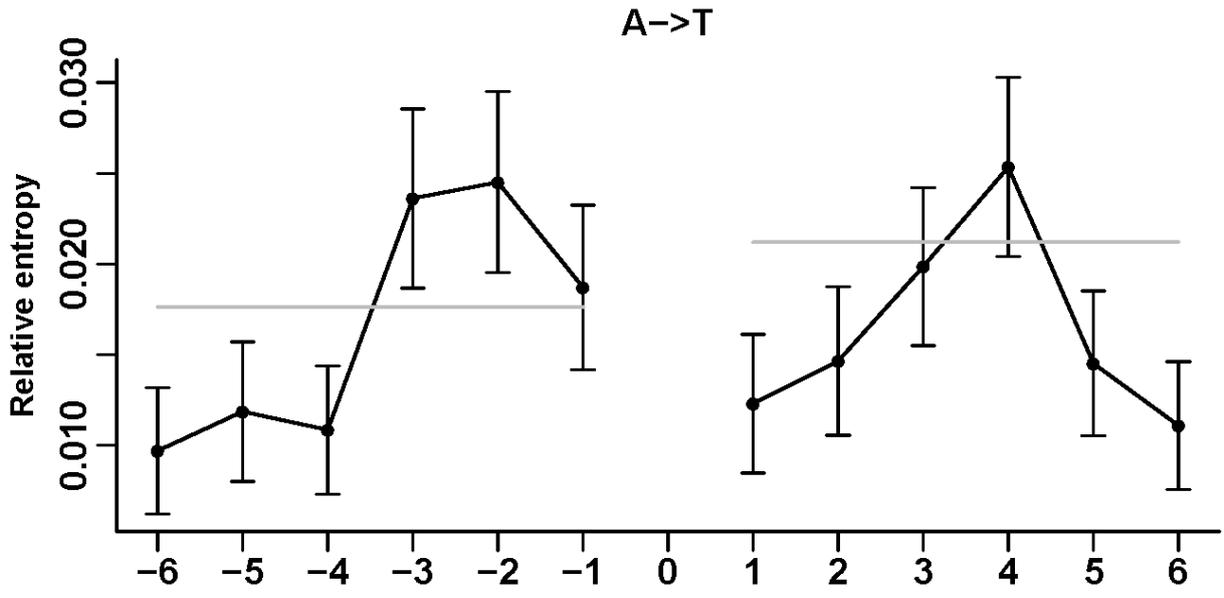
A->D



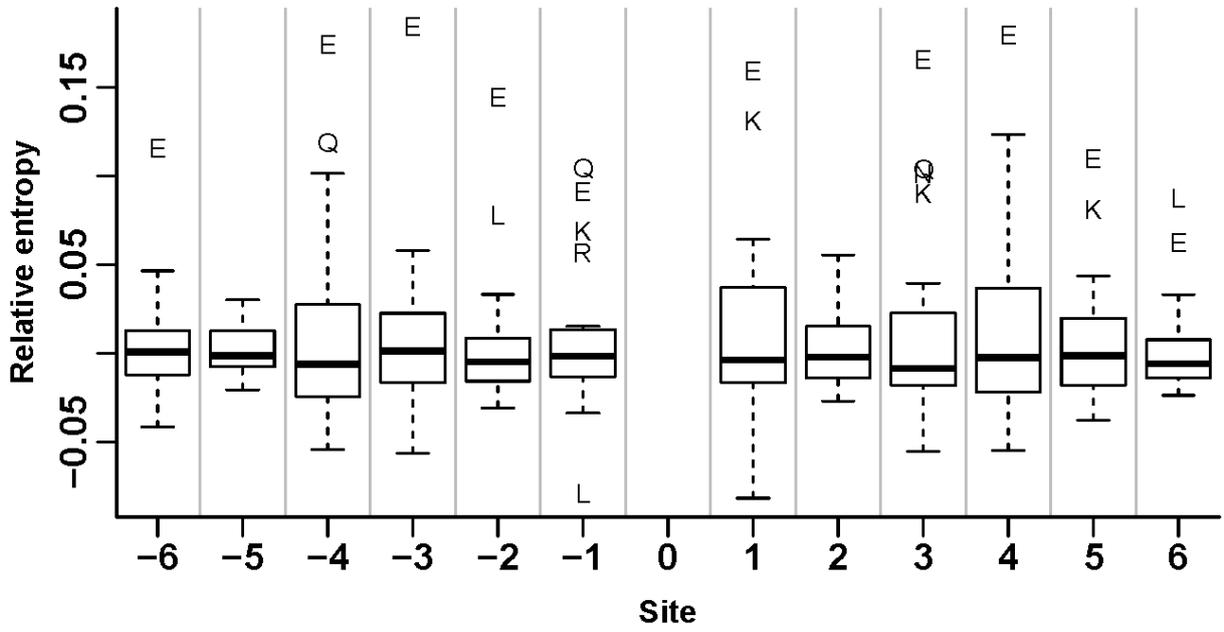
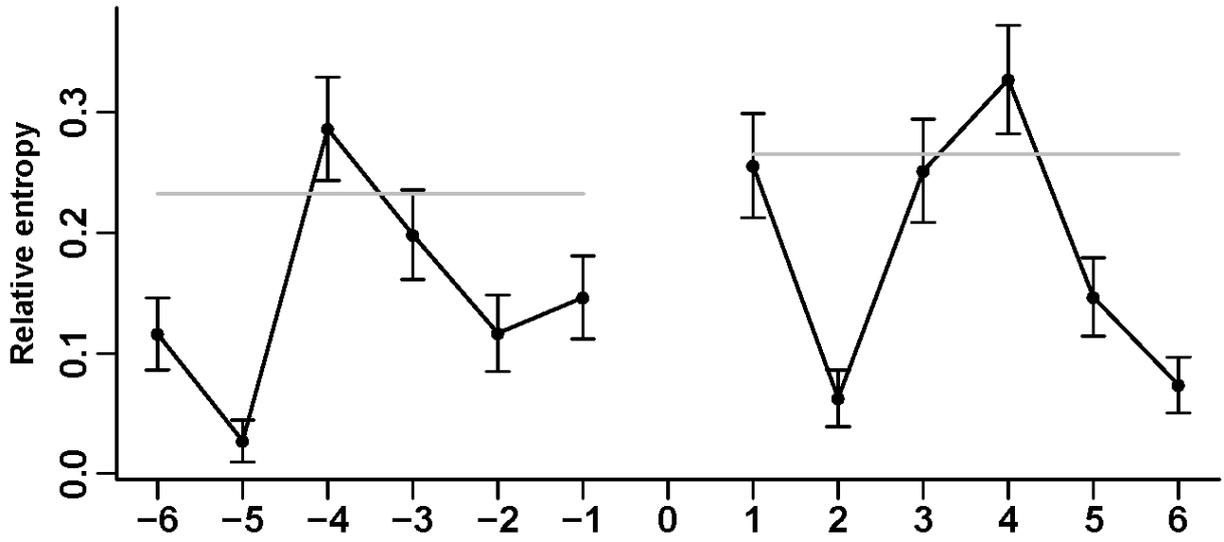
A→E



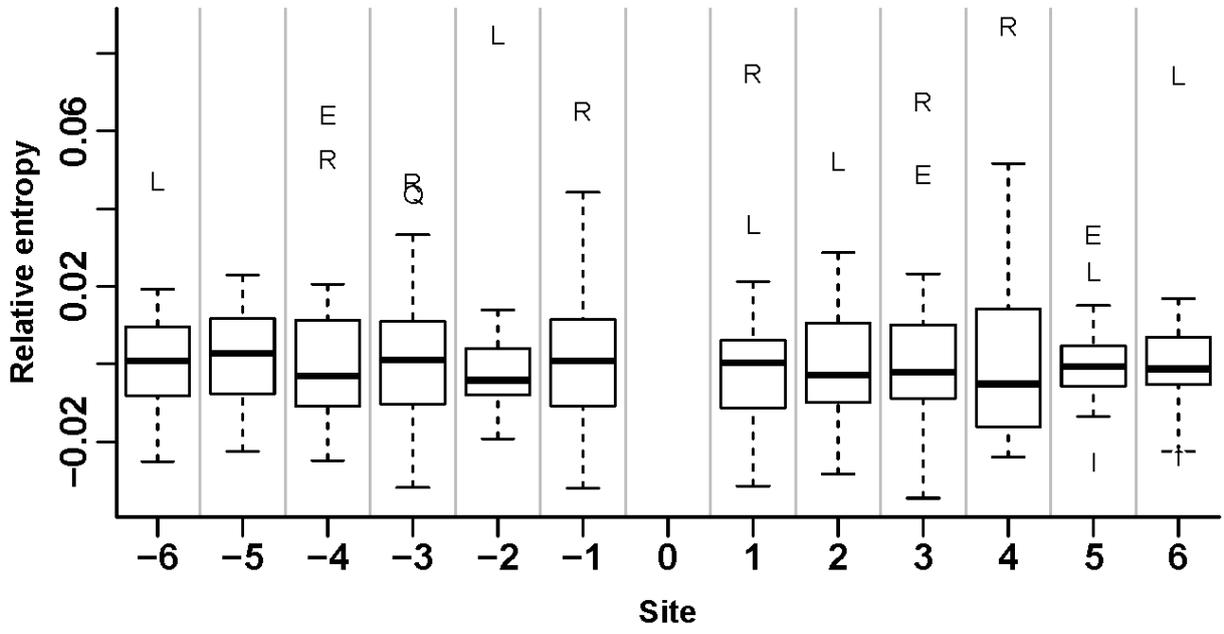
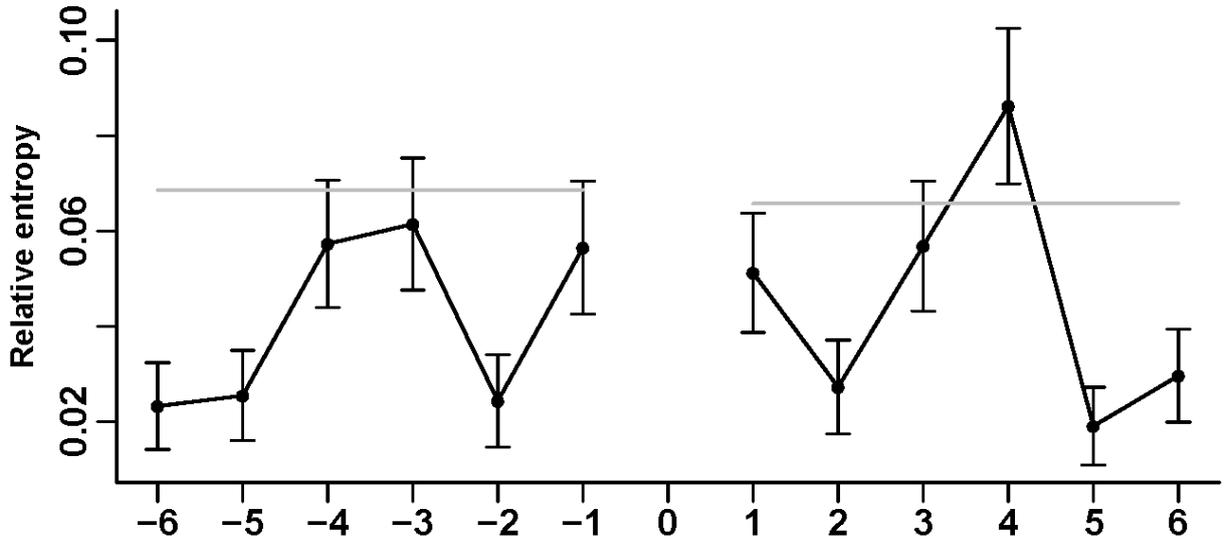




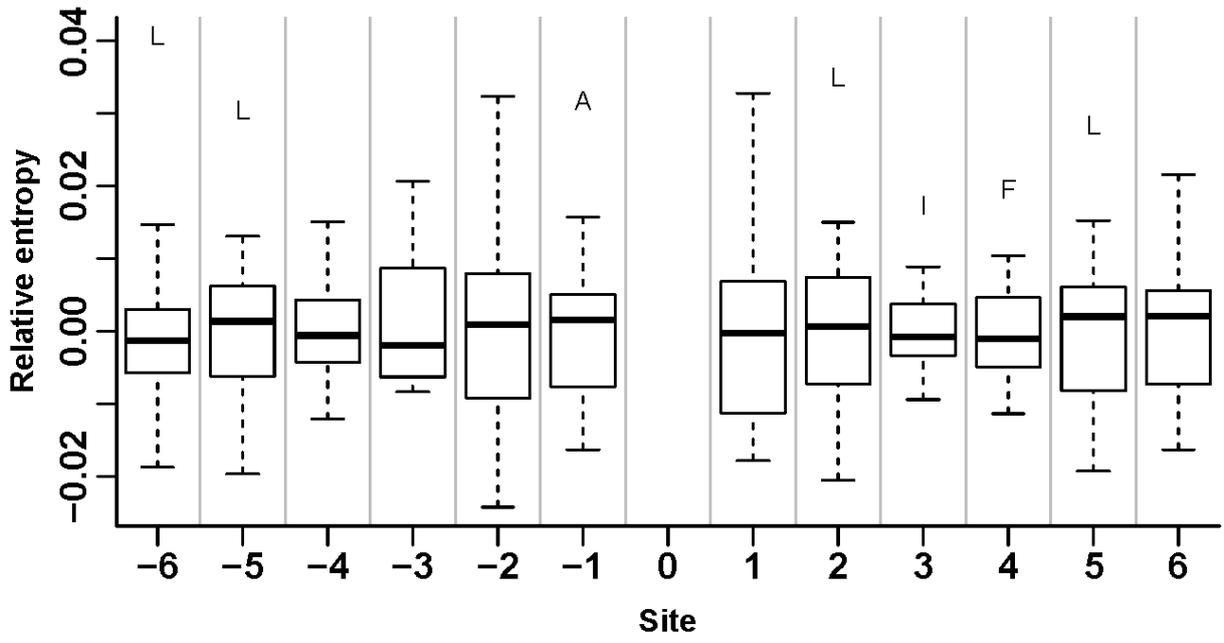
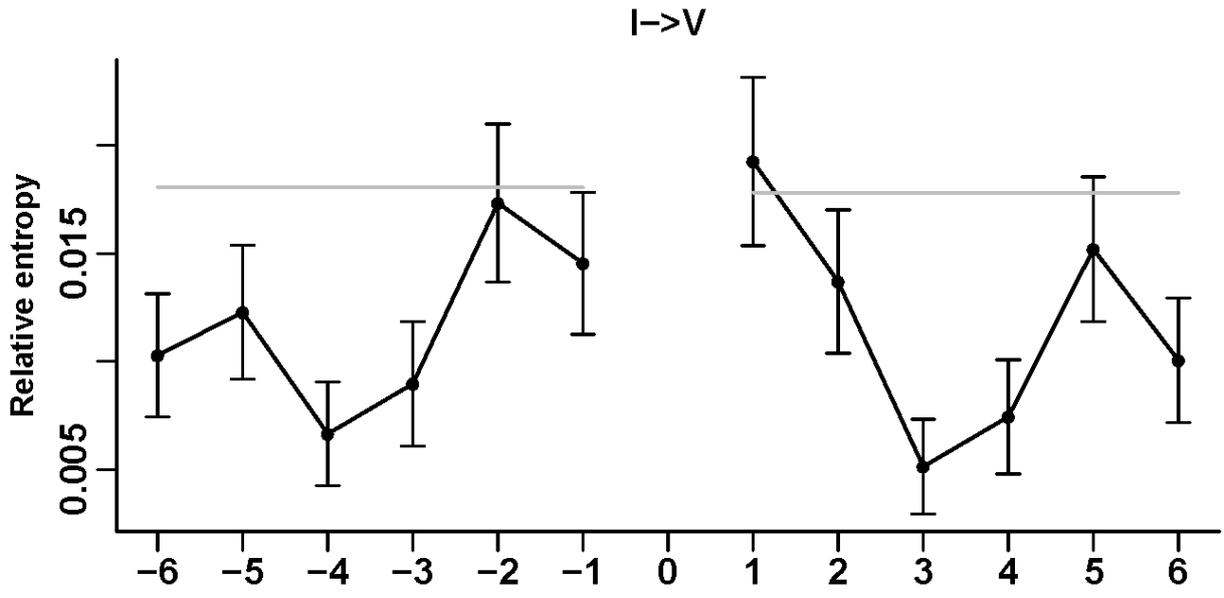
G→E



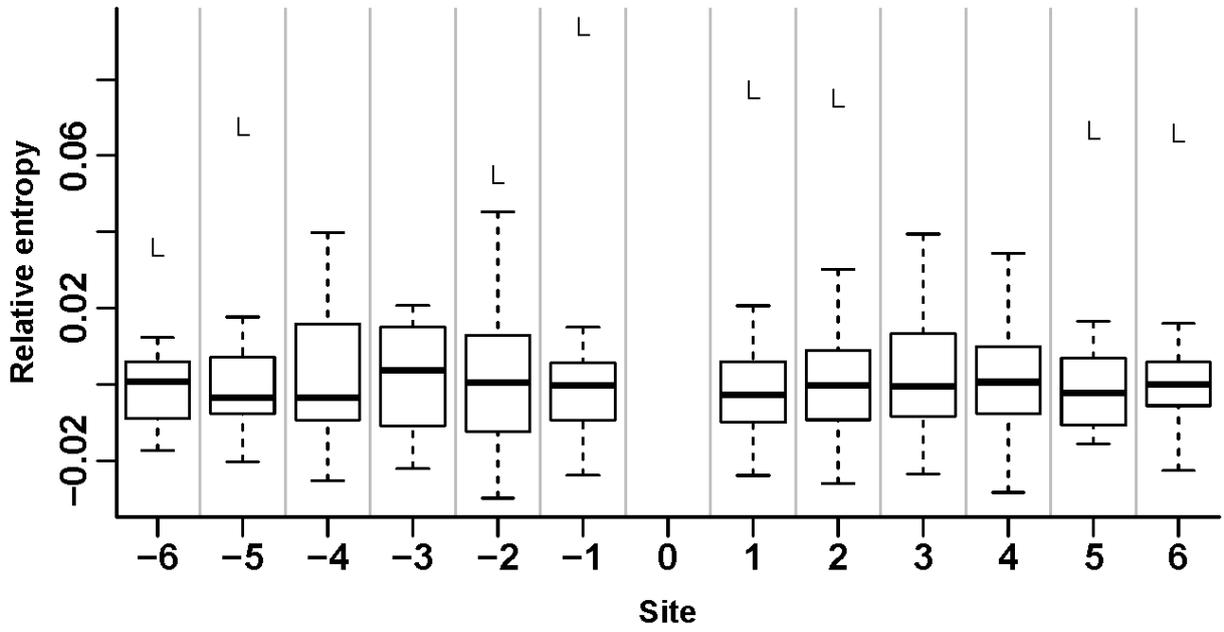
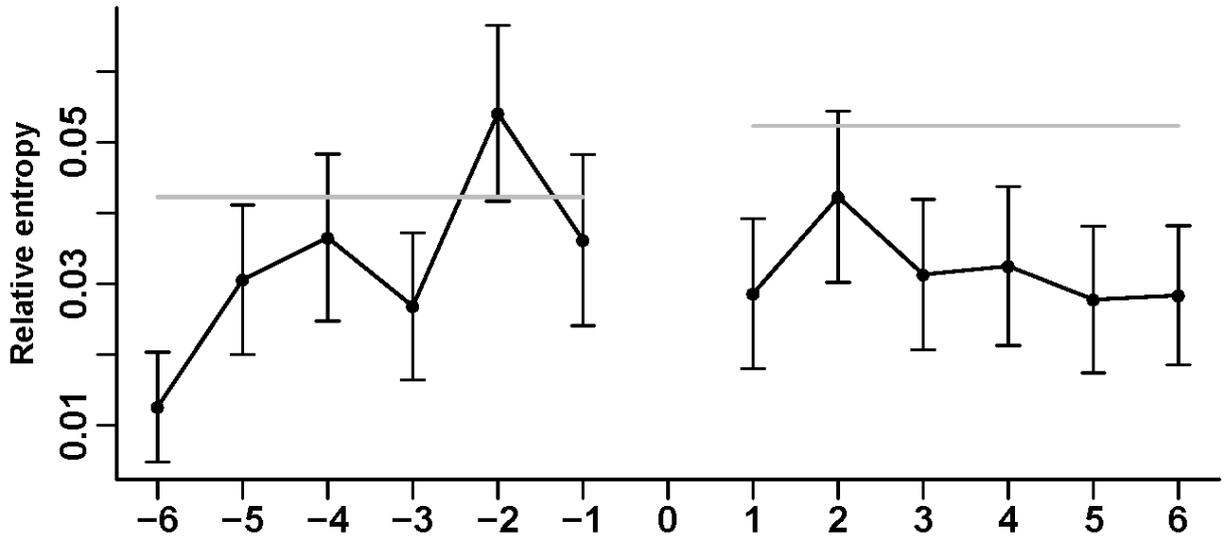
G→S

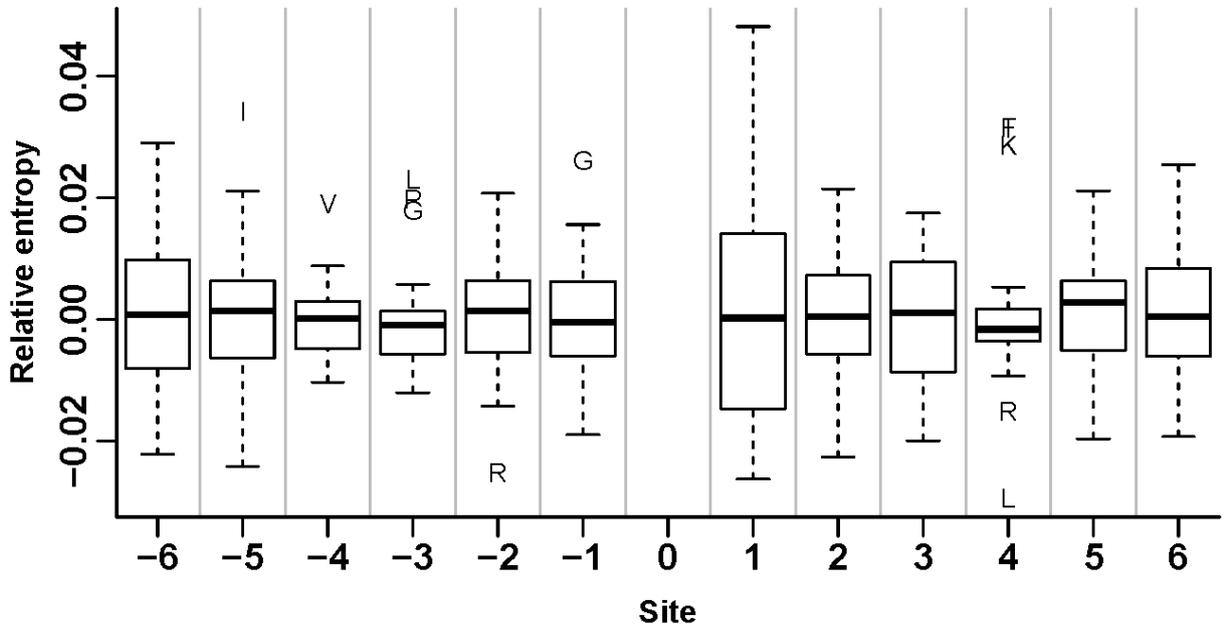
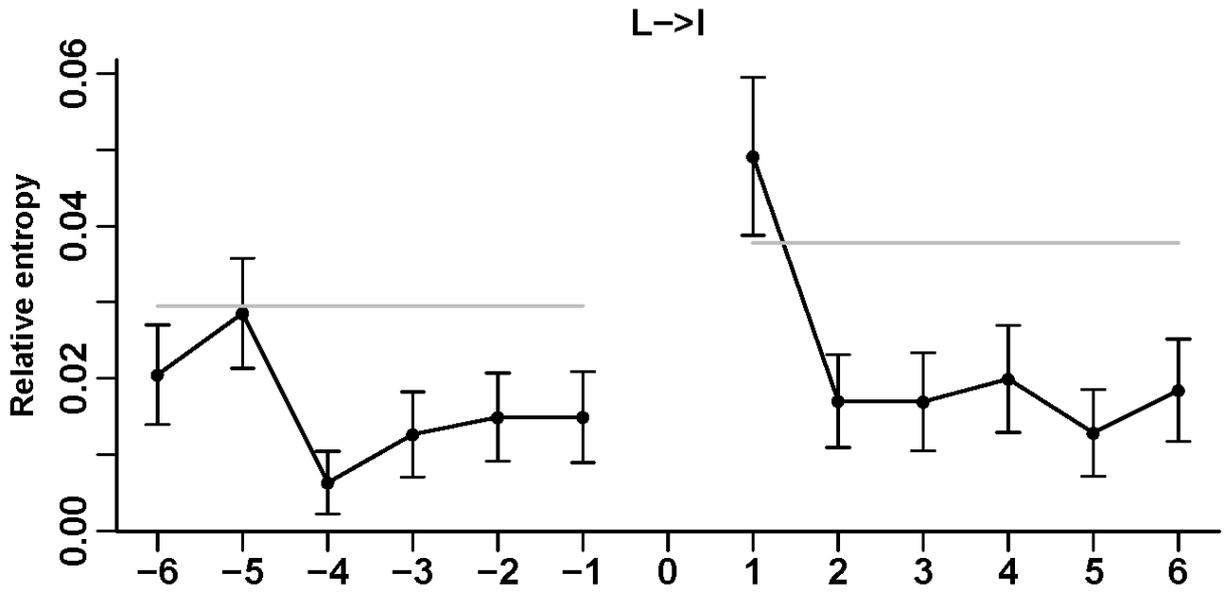


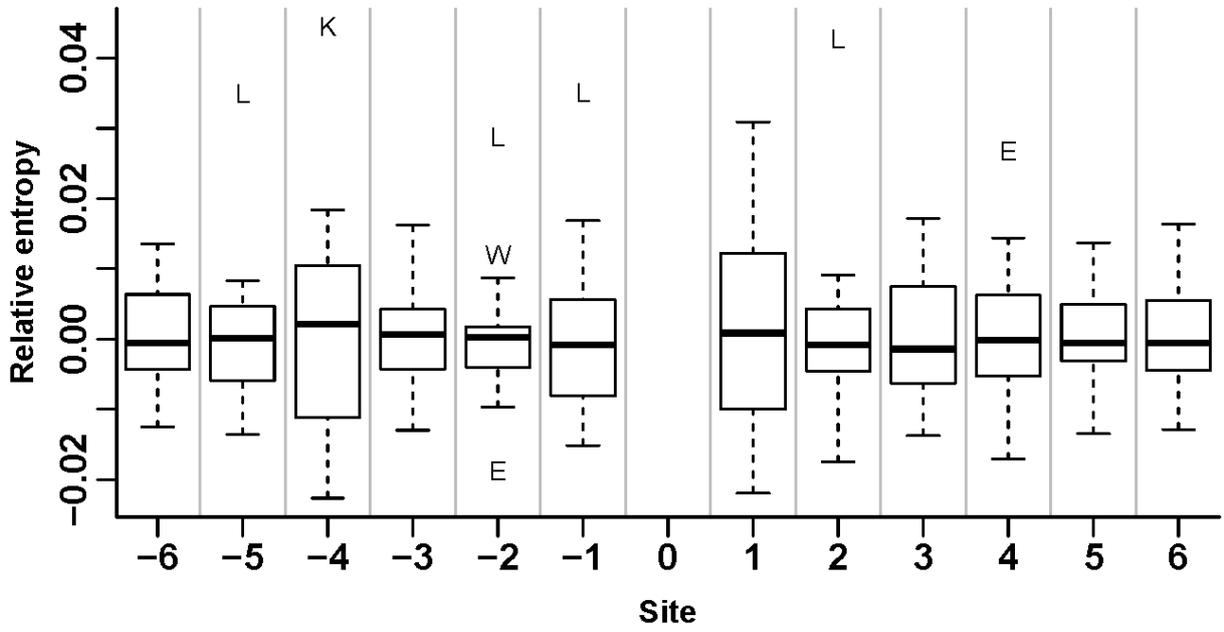
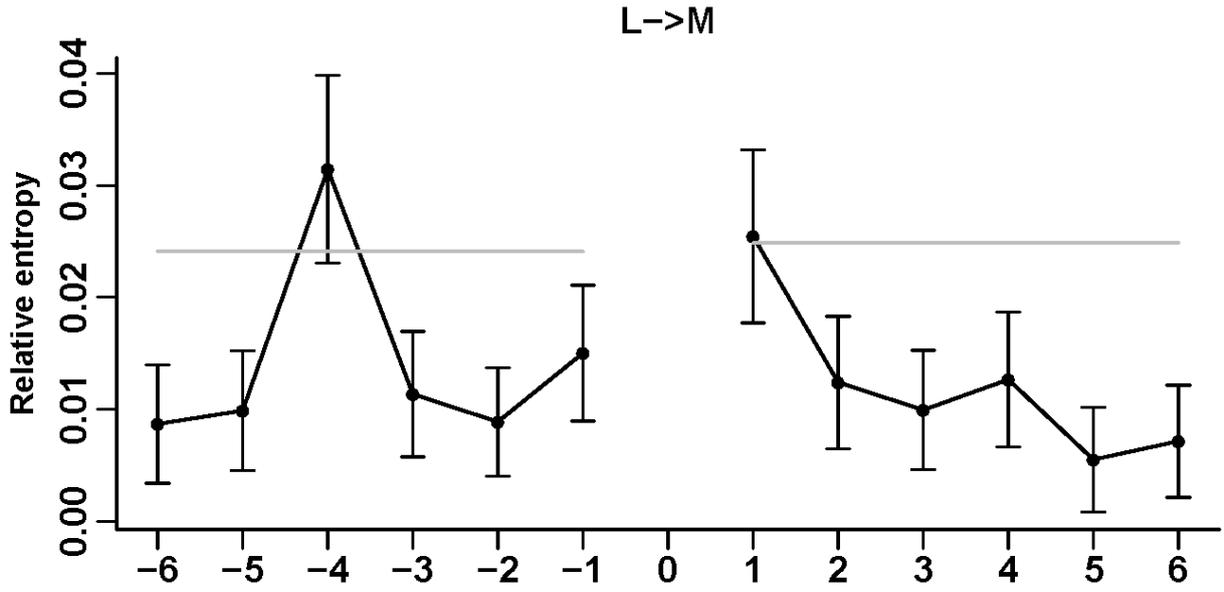


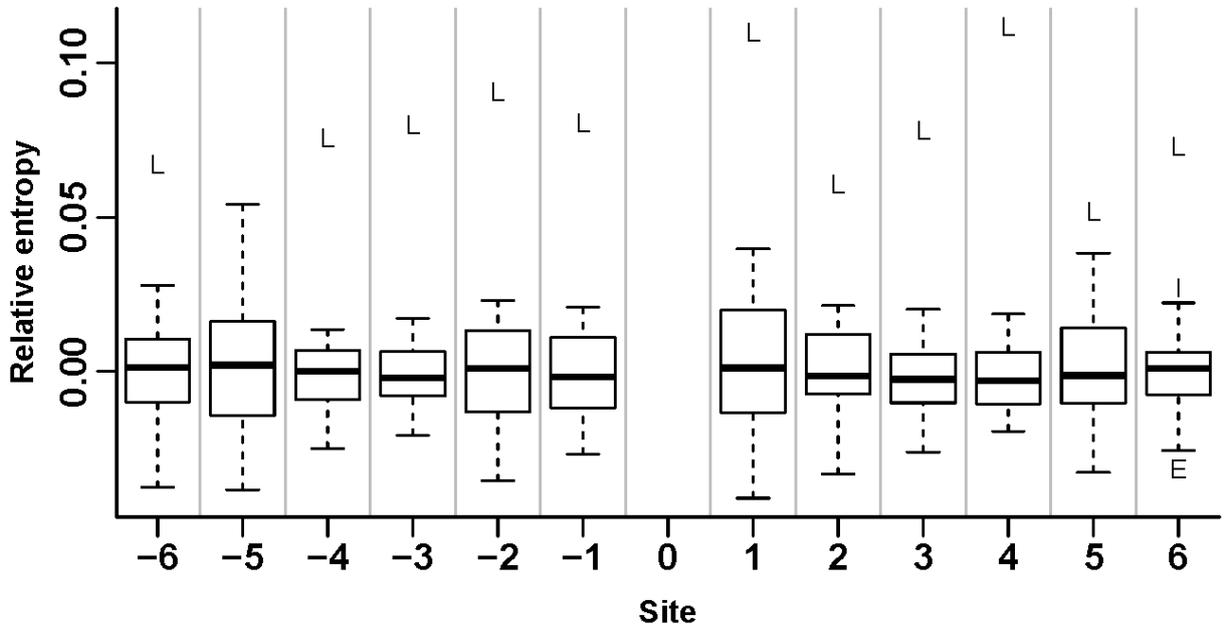
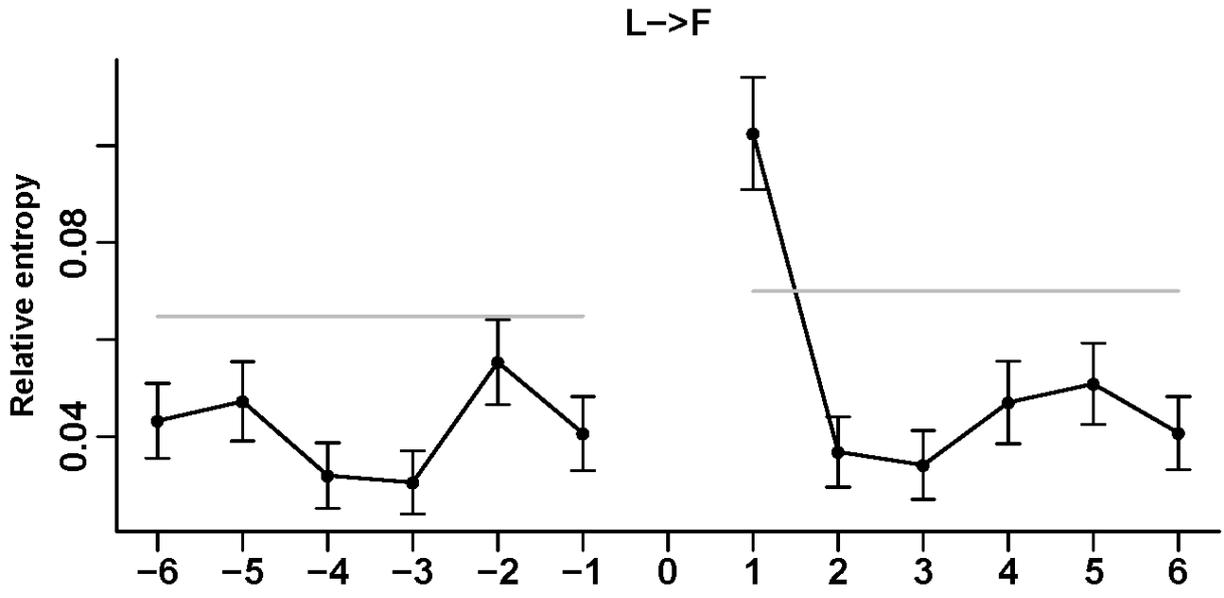


I→T

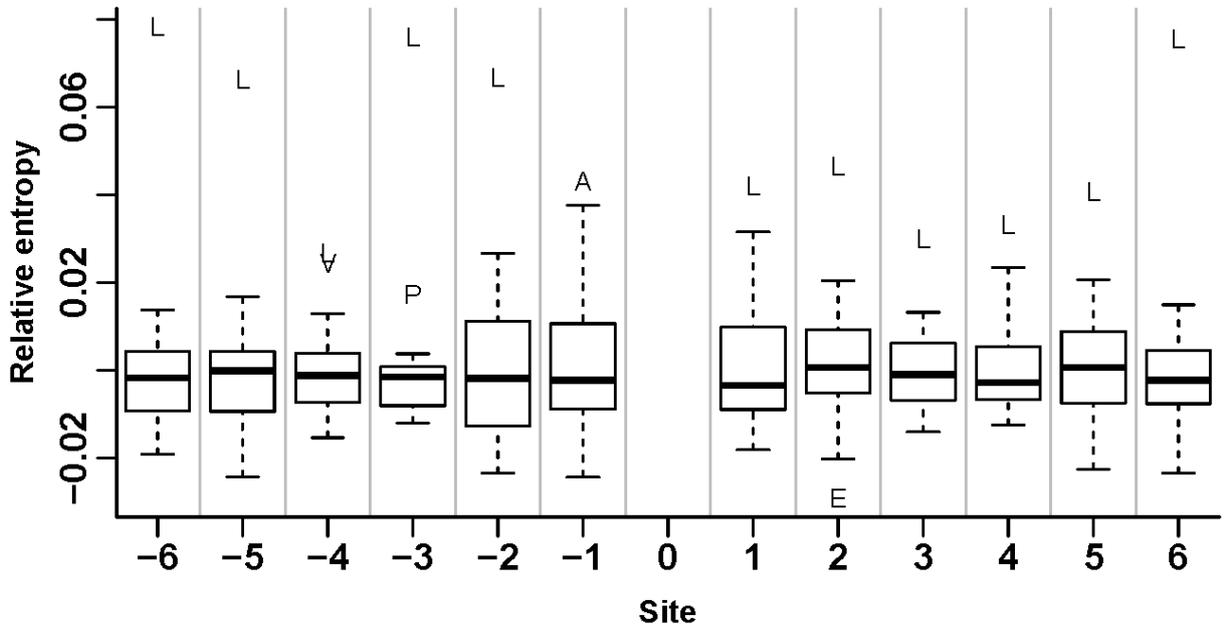
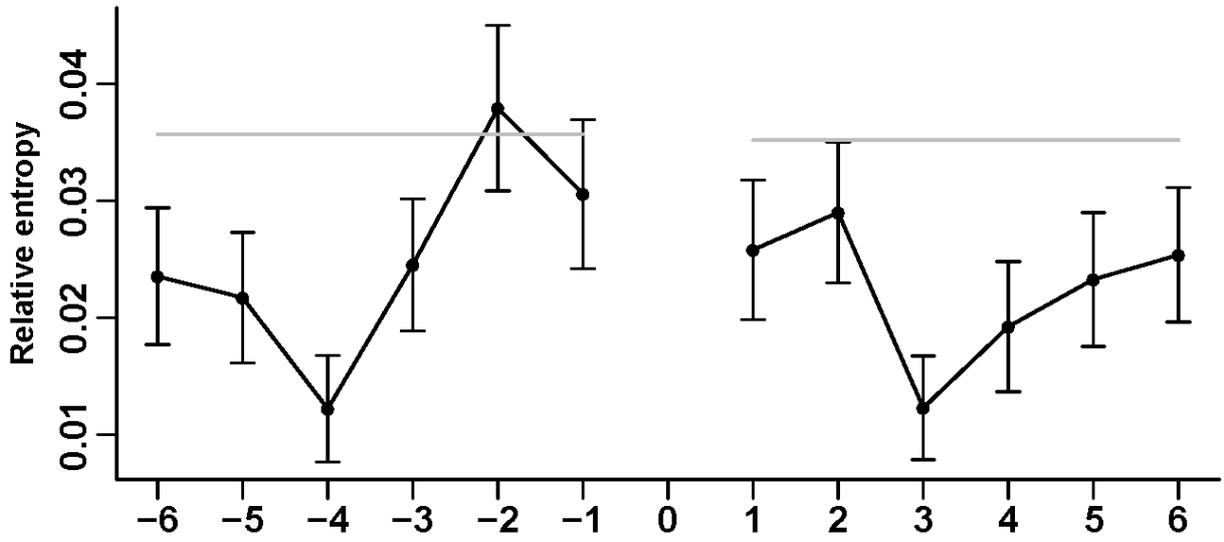


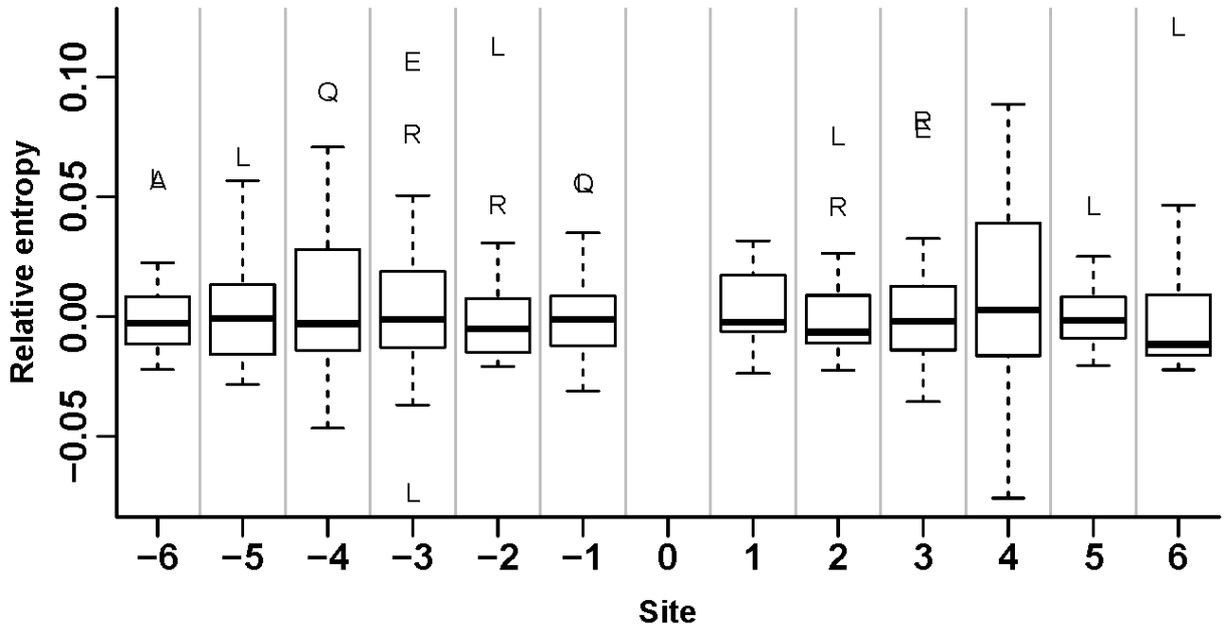
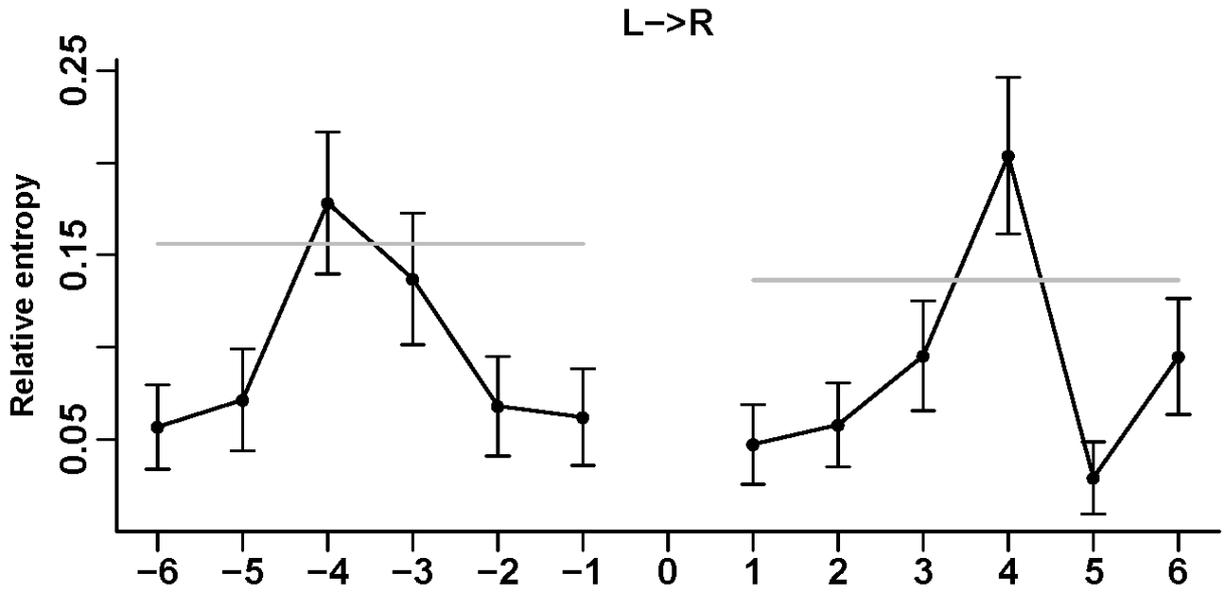




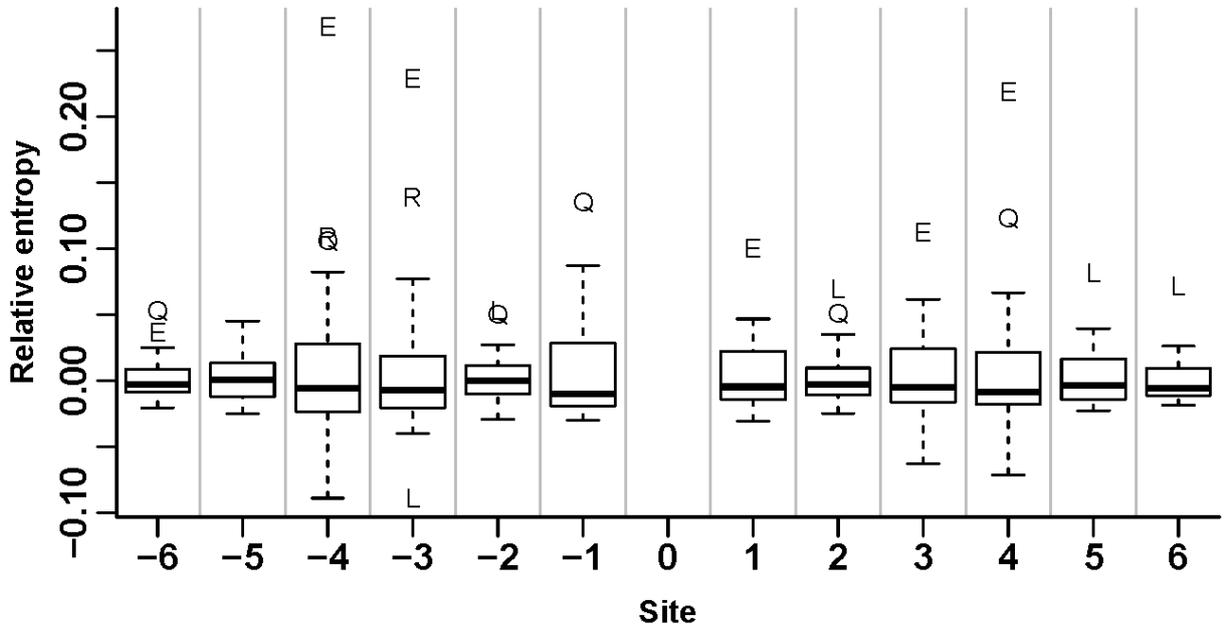
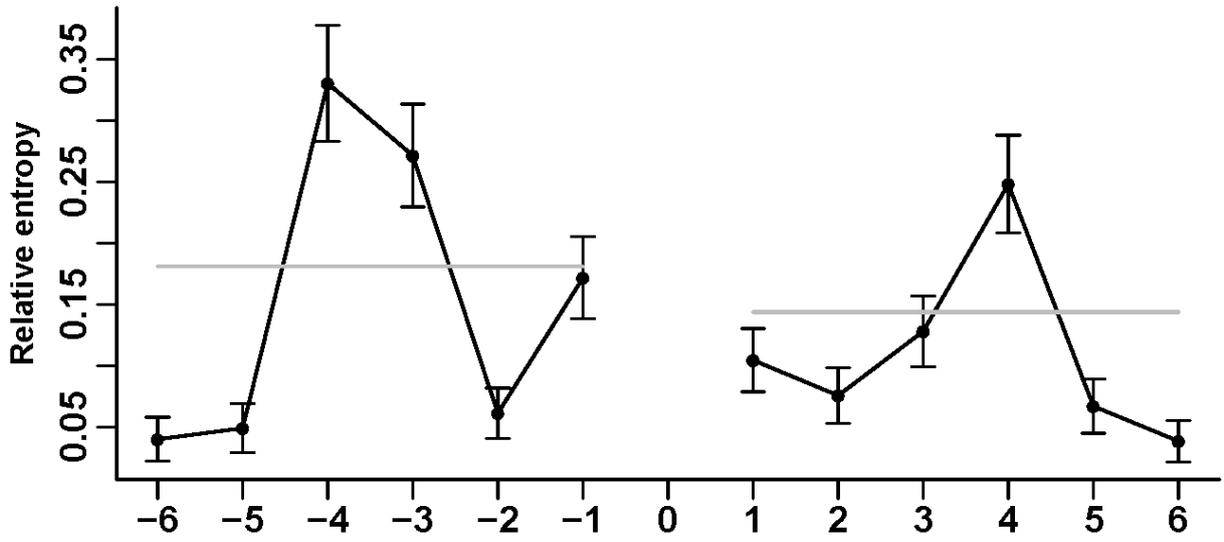


L->V

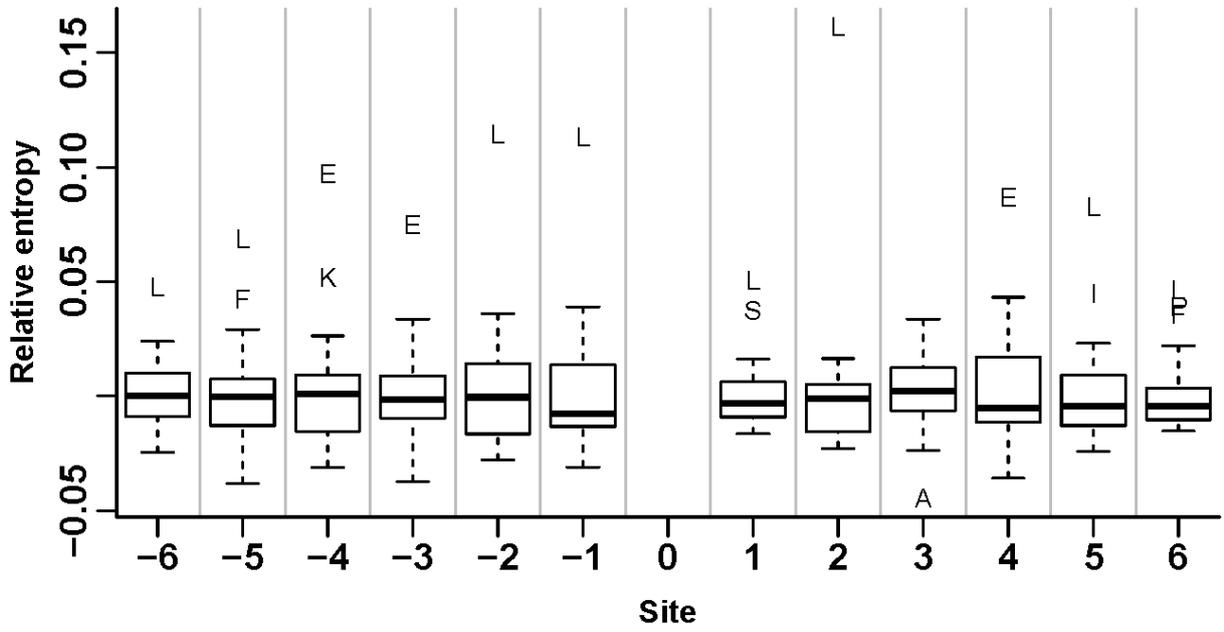
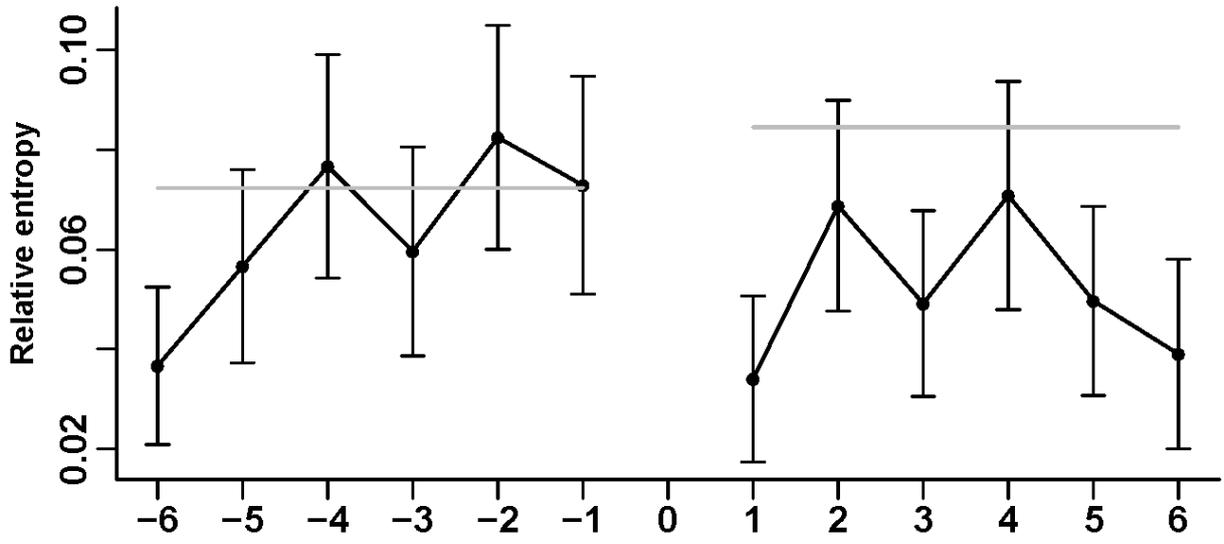


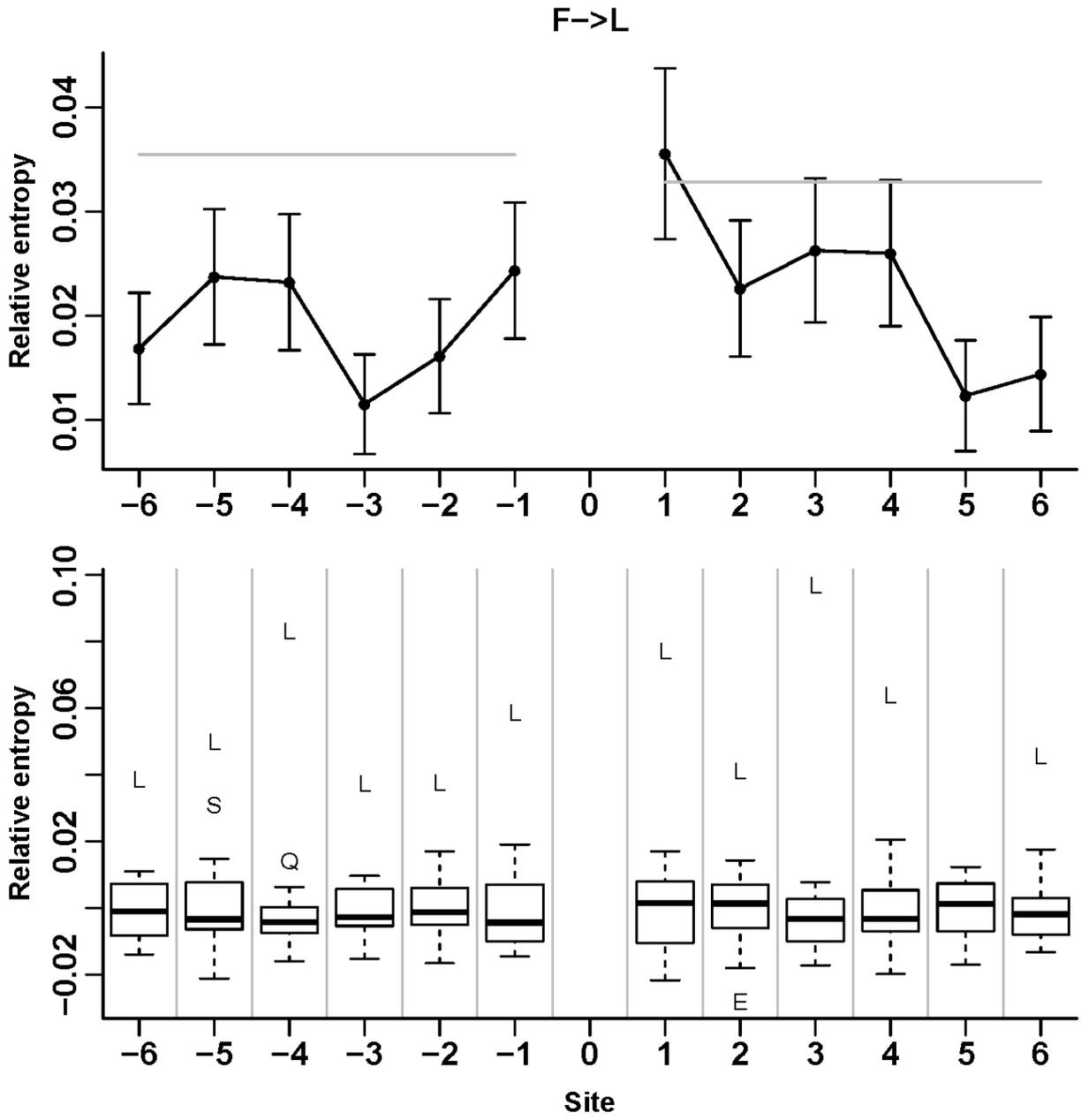


L→Q

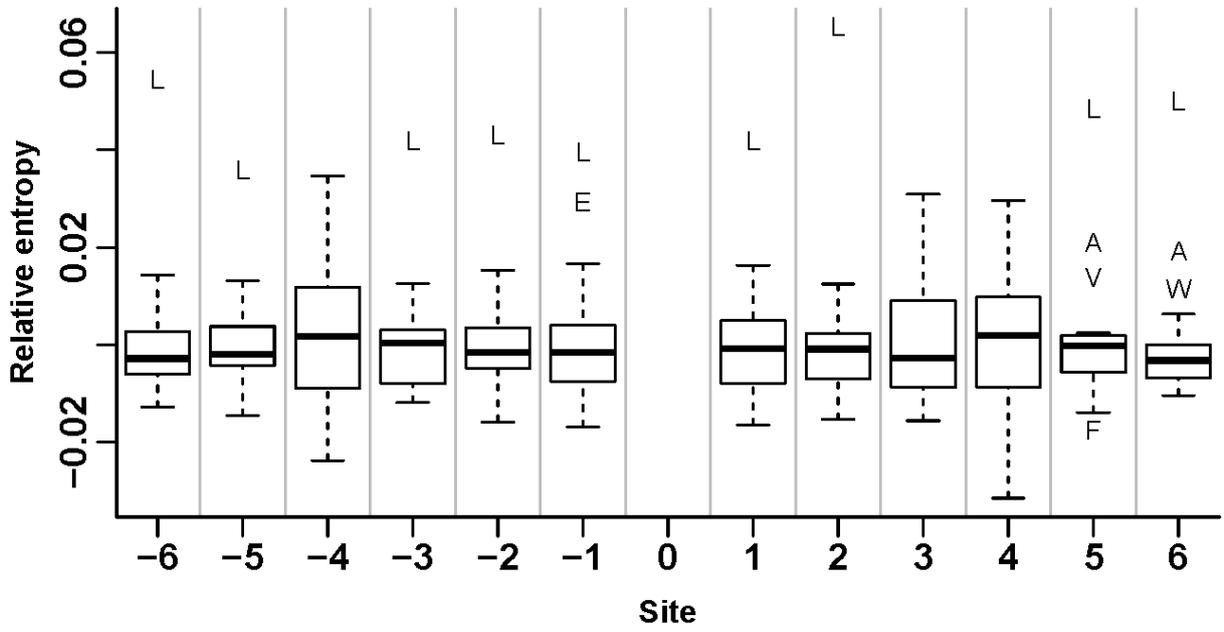
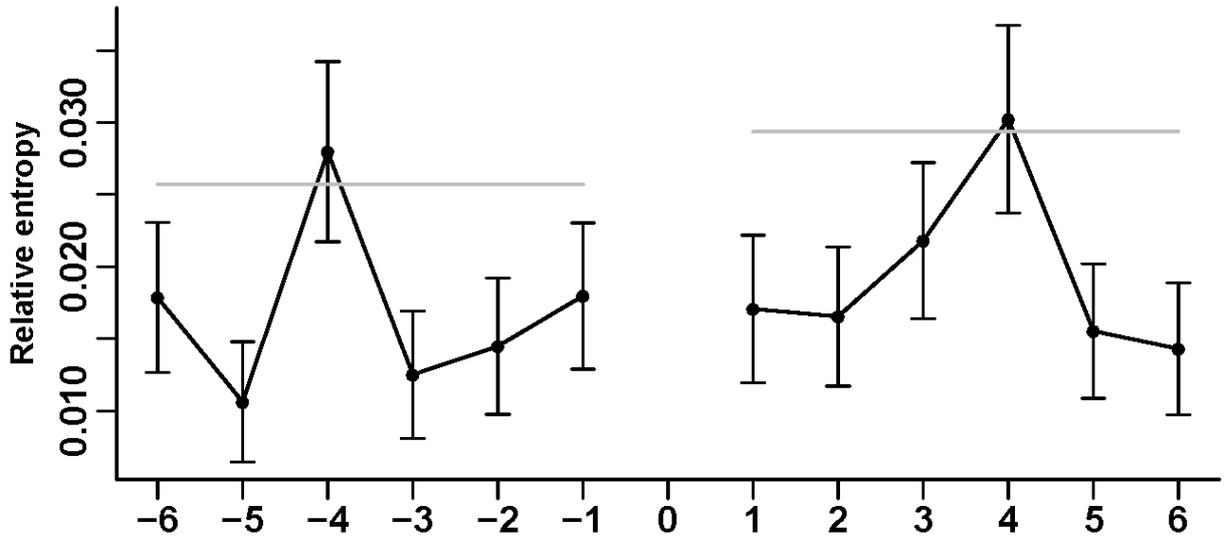


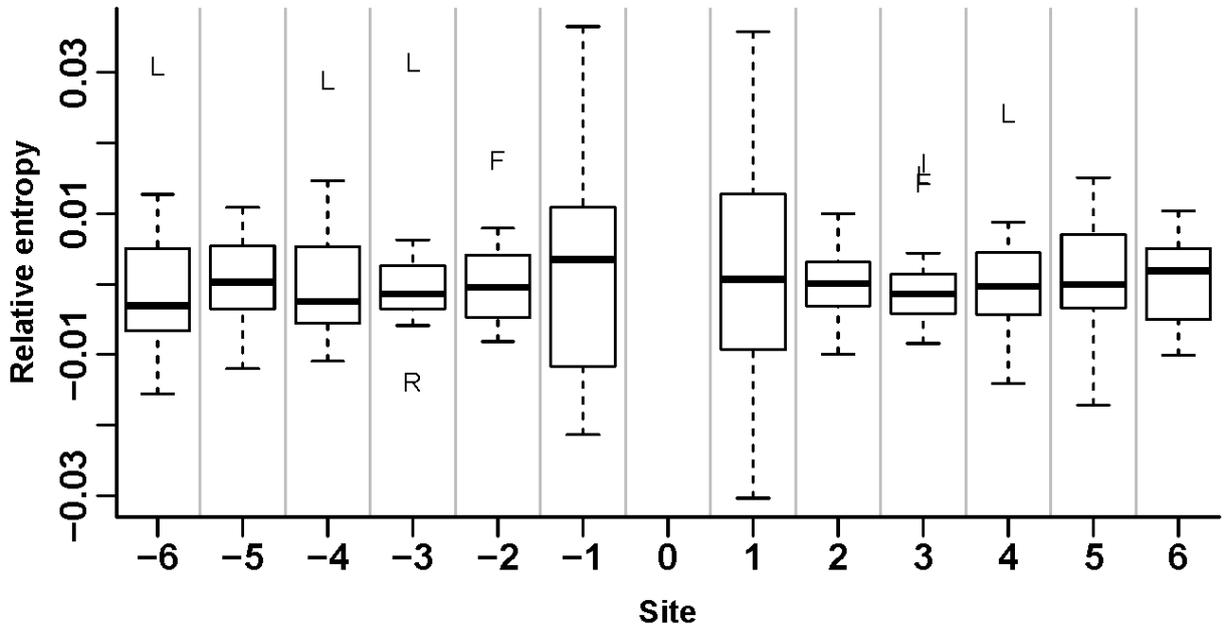
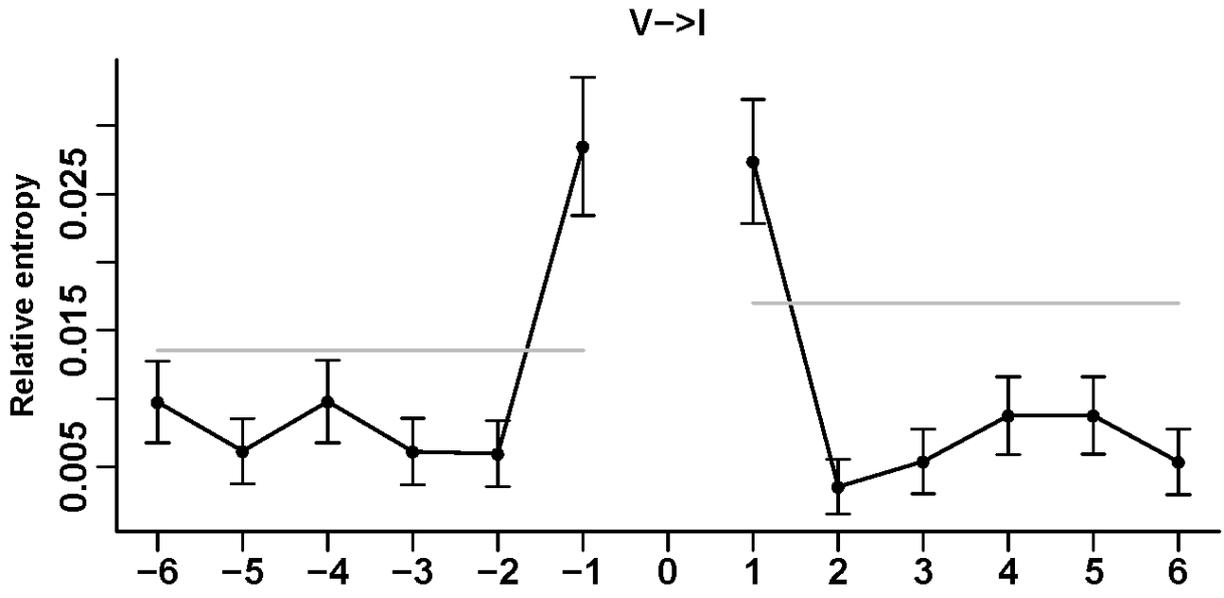
L->S

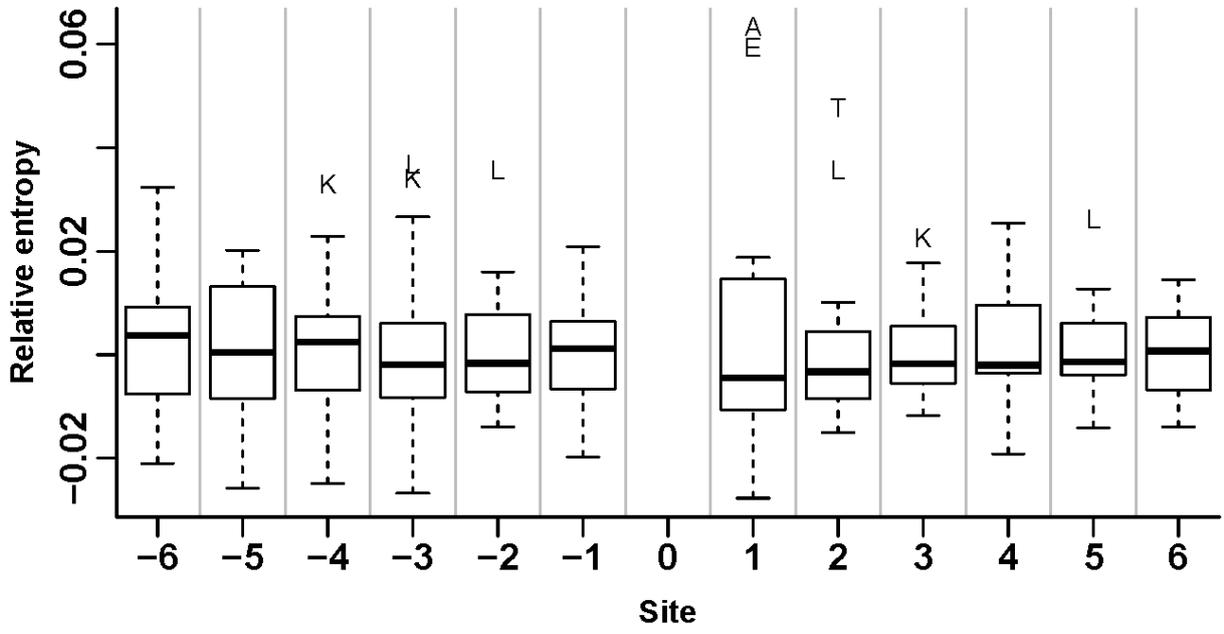
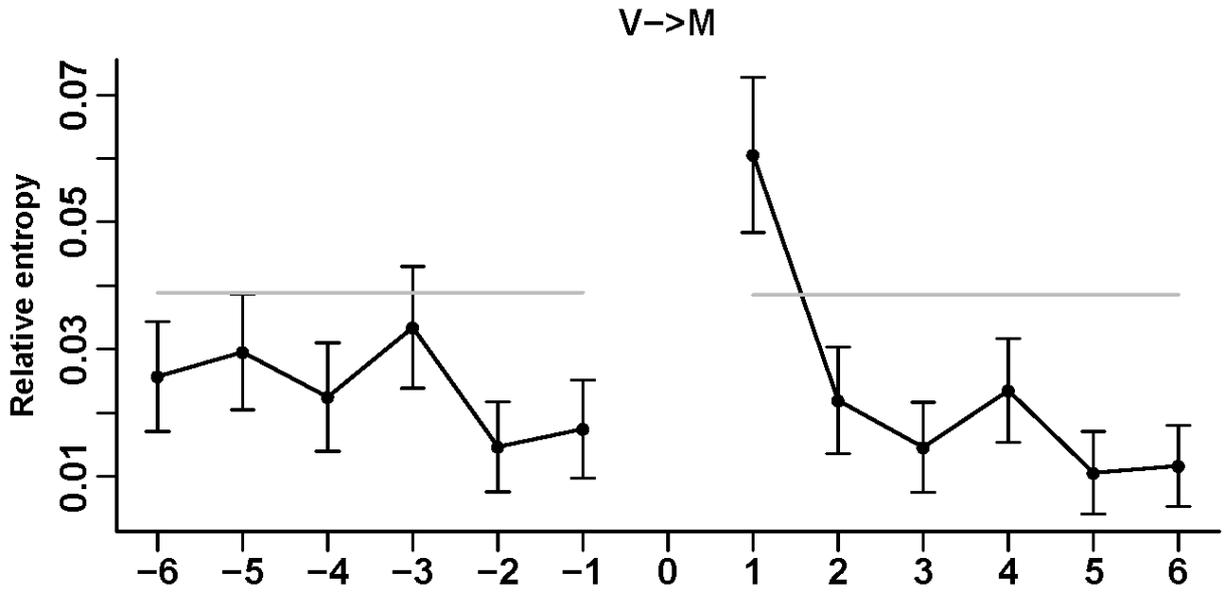




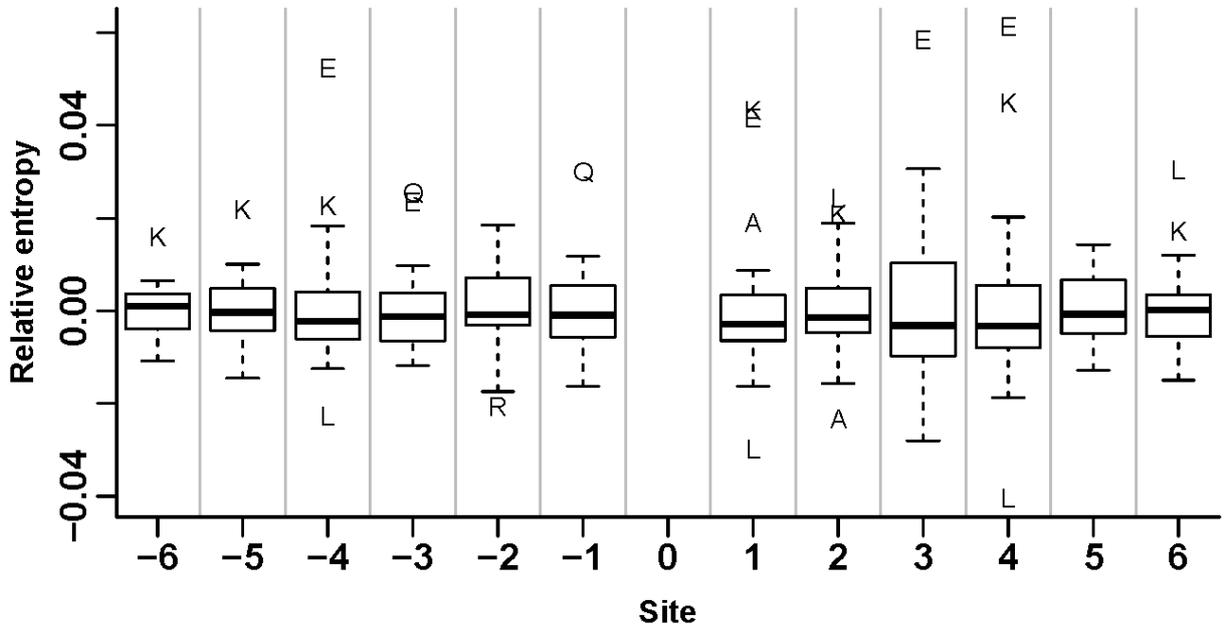
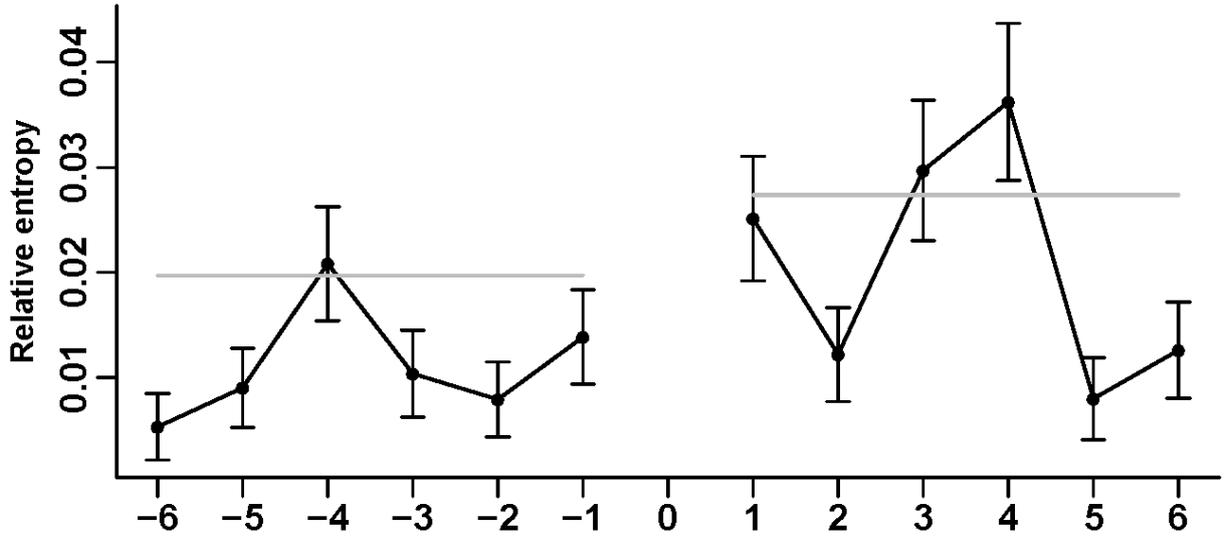
V→A

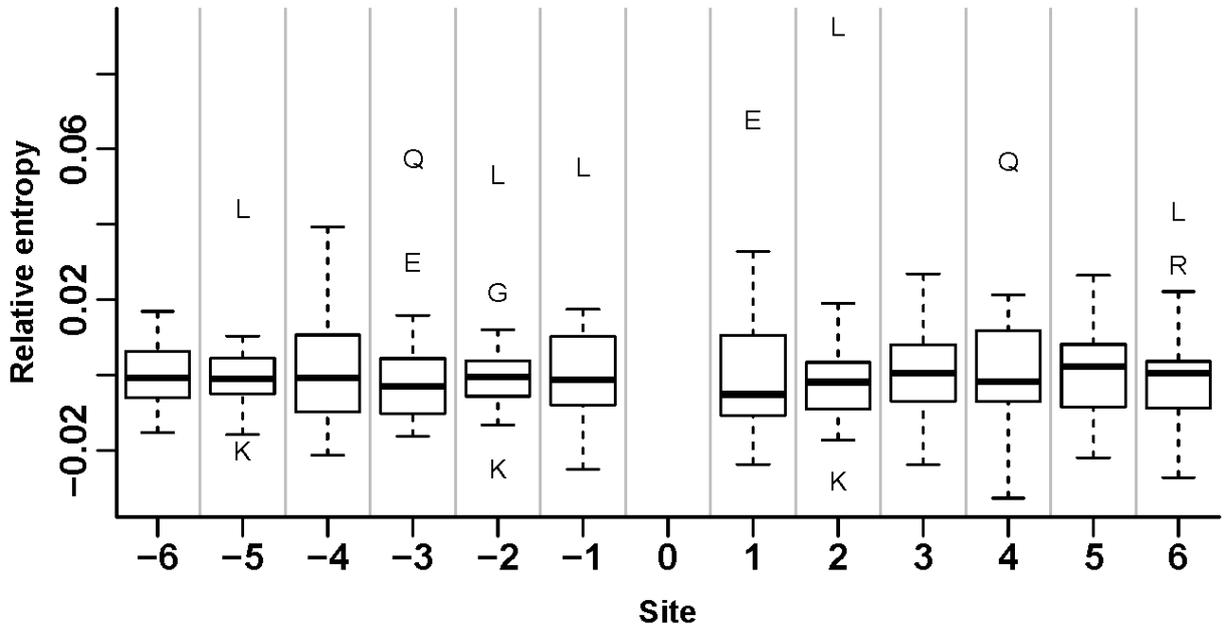
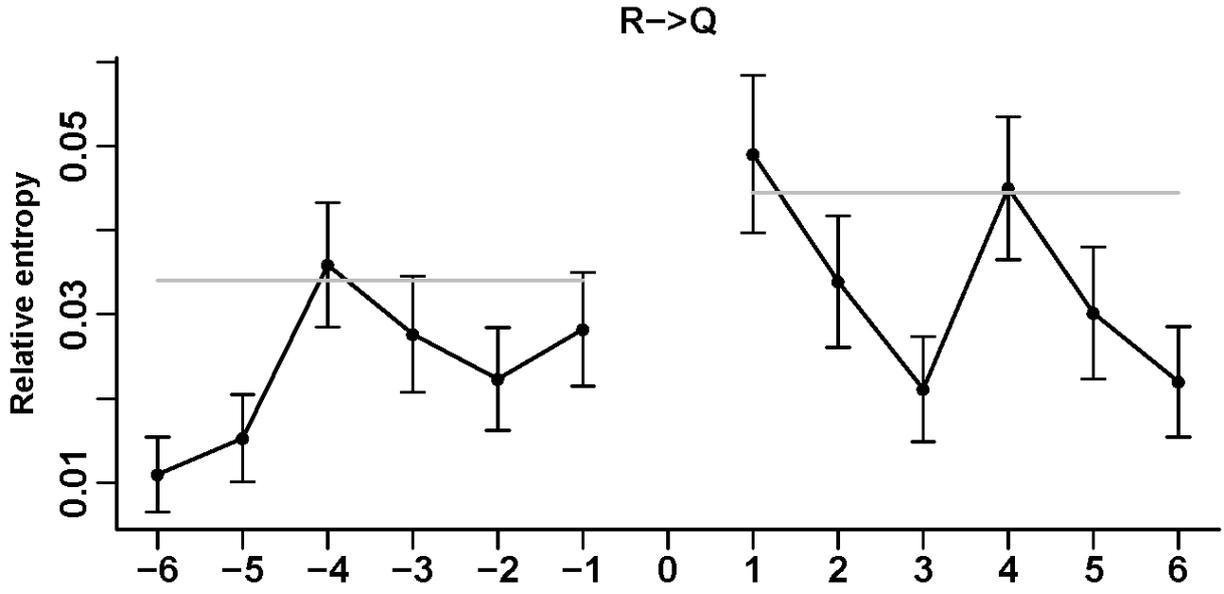




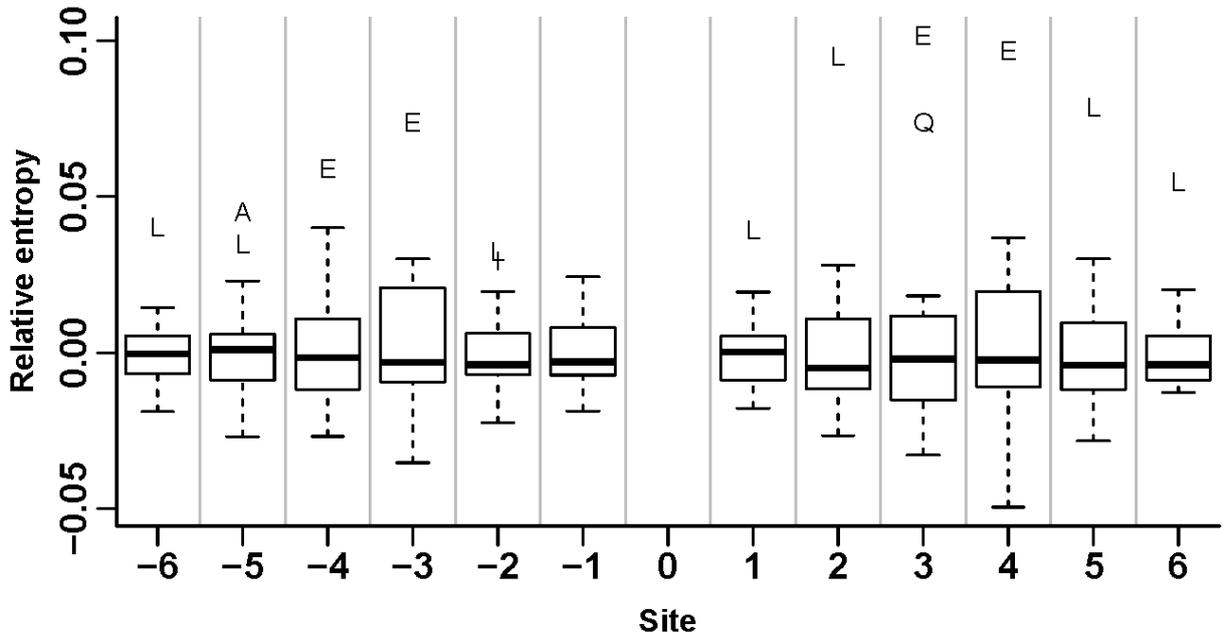
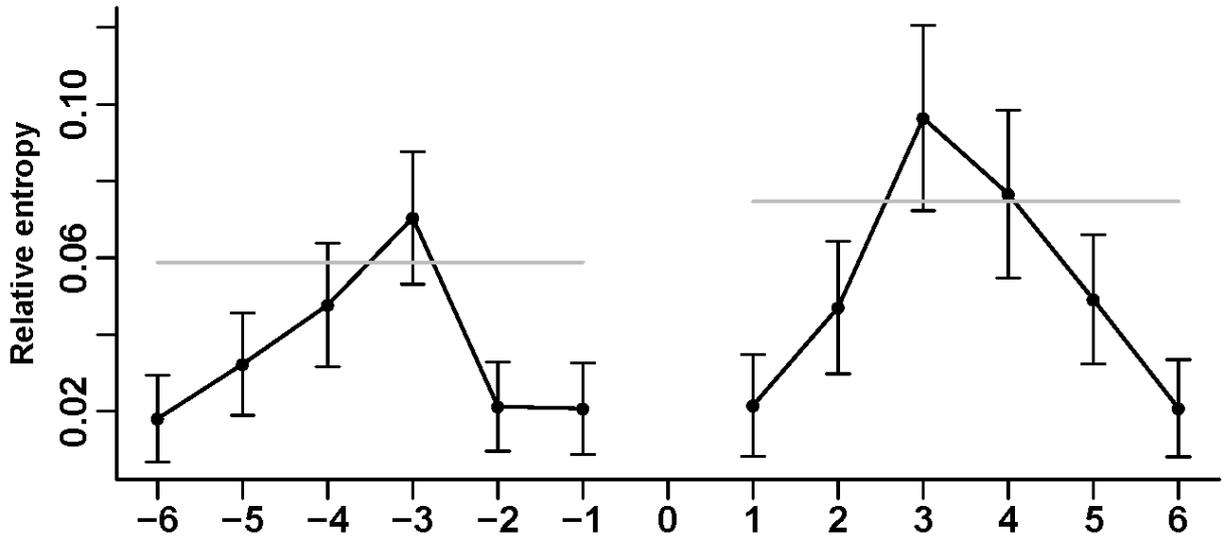


R->K

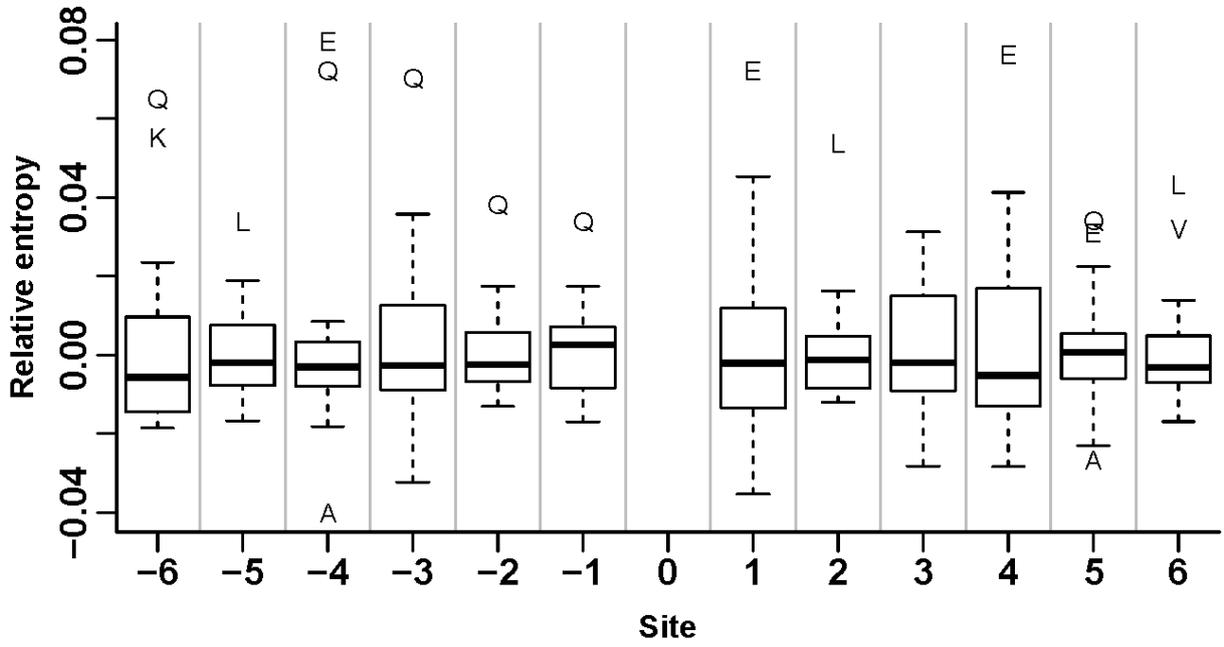
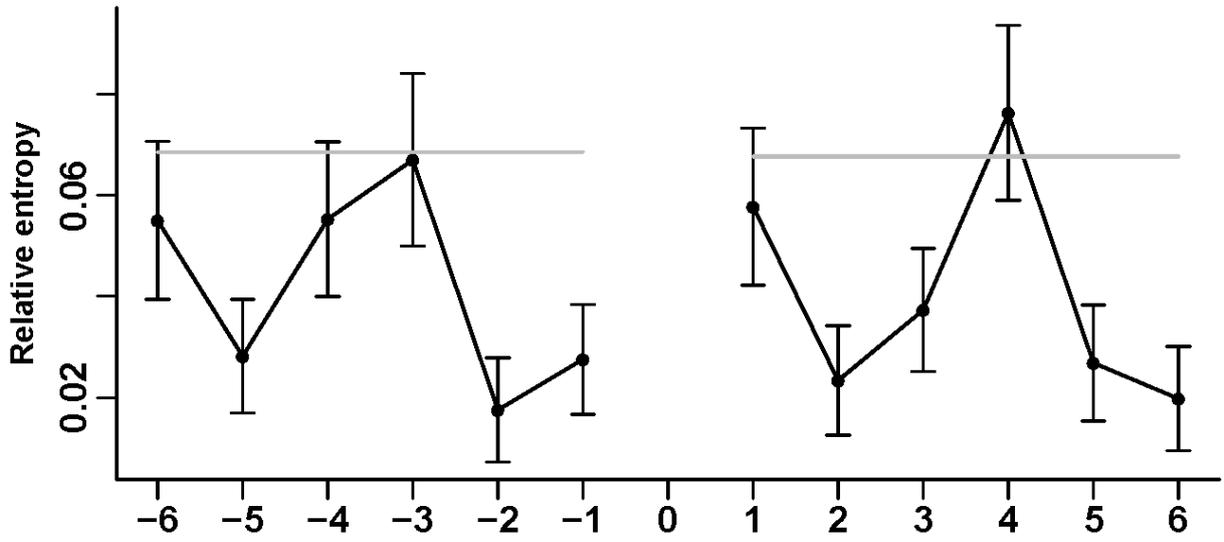


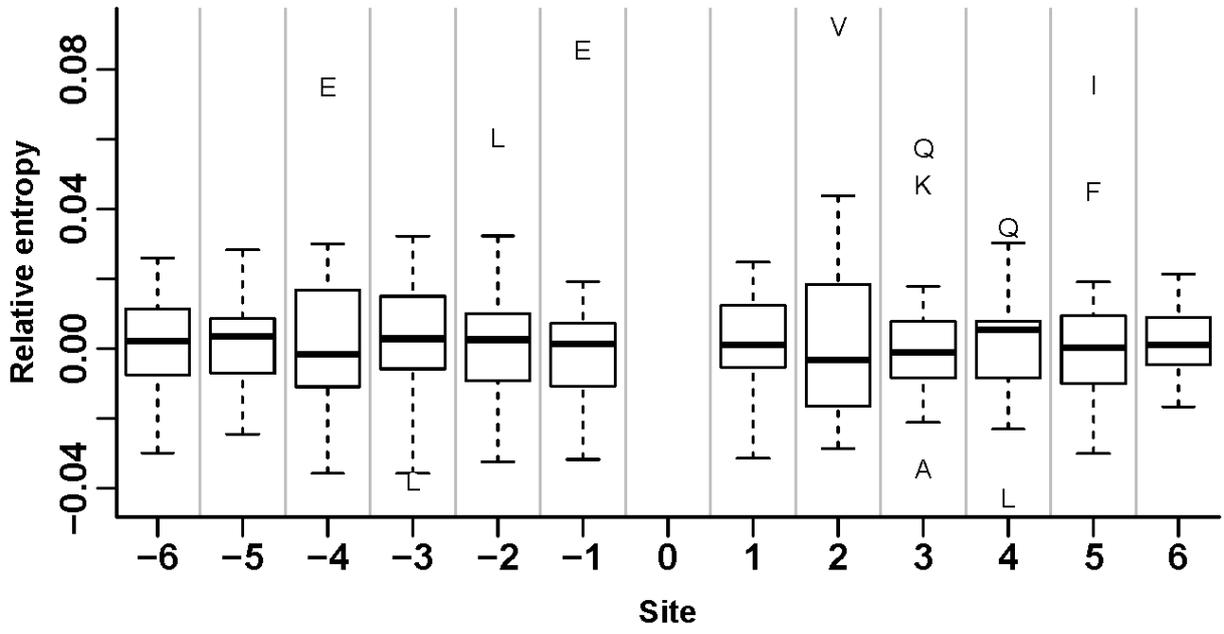
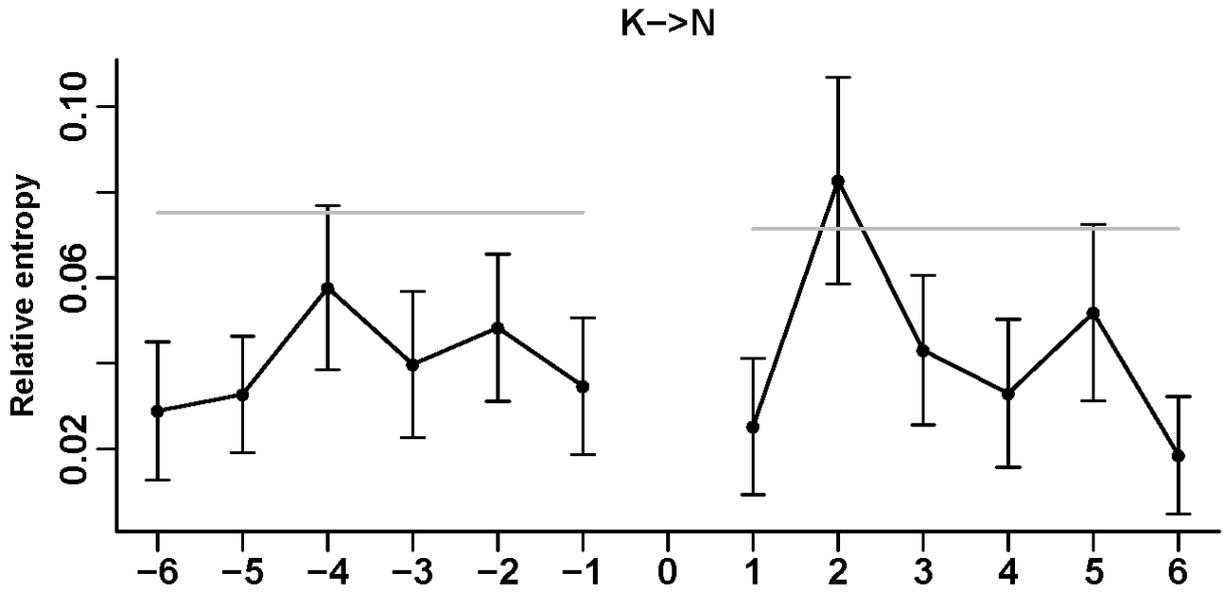


H->R

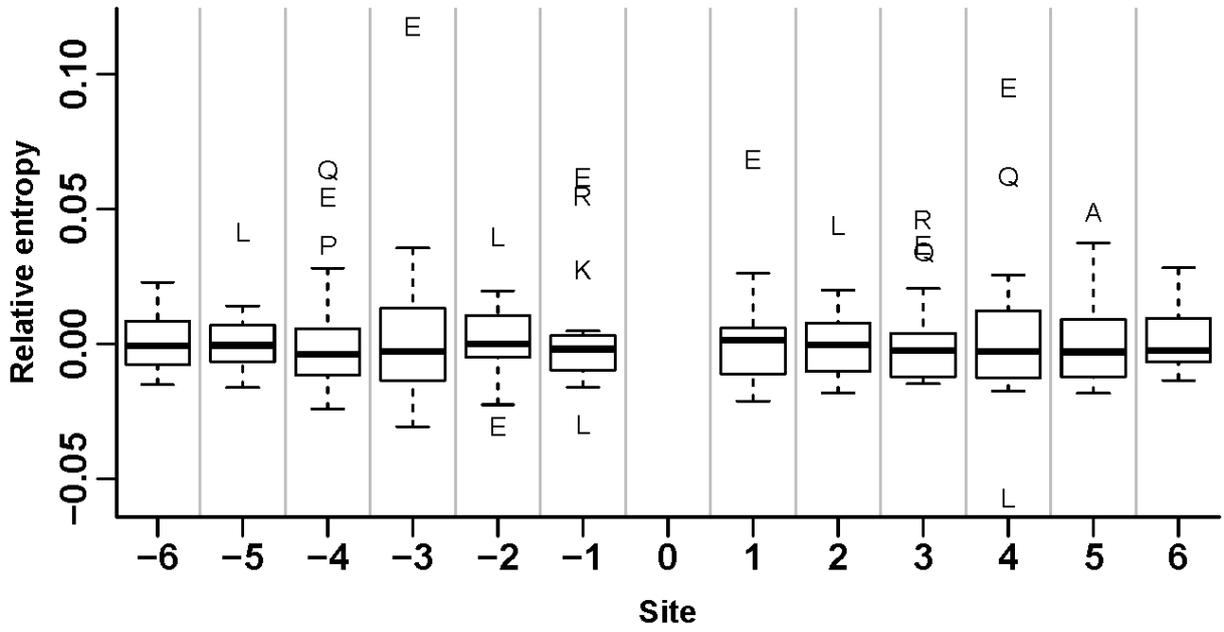
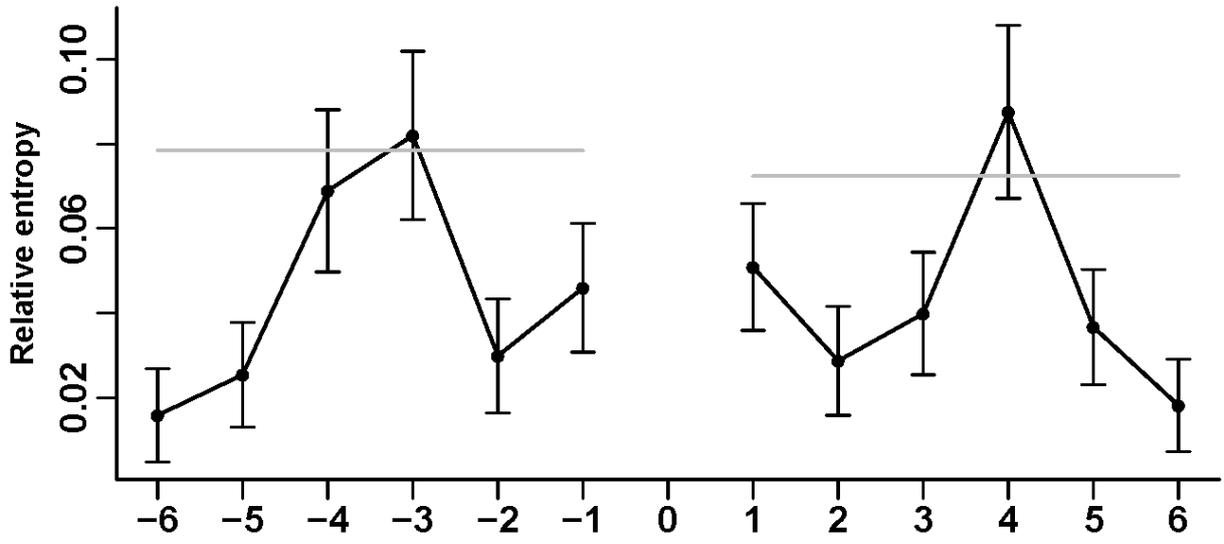


H->Q

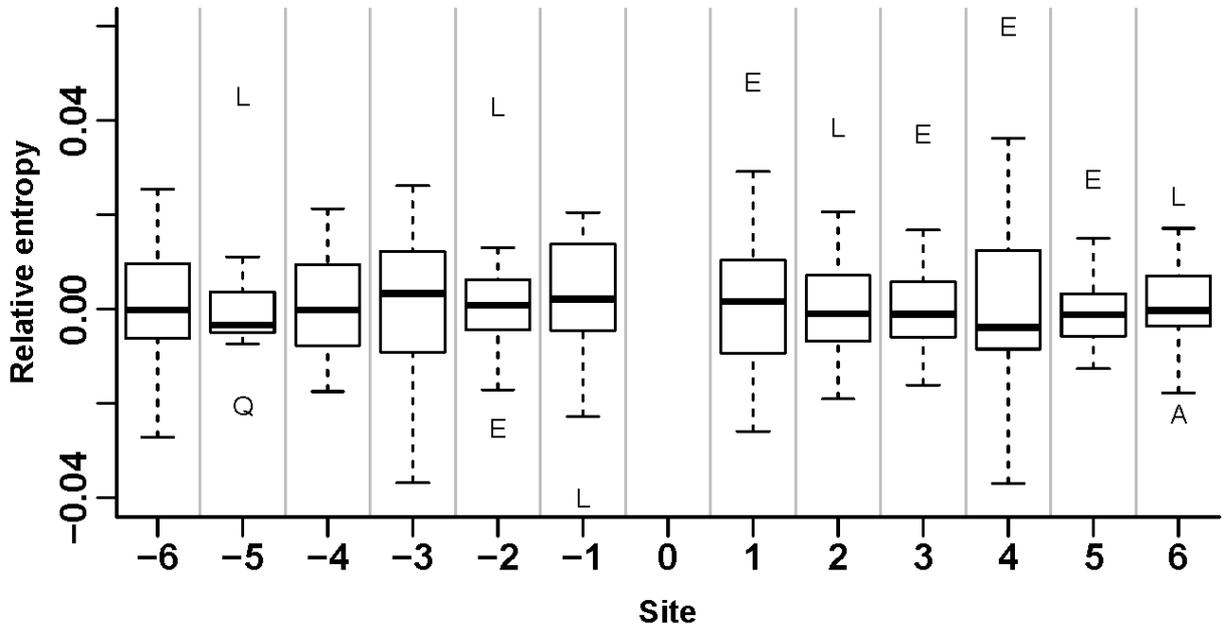
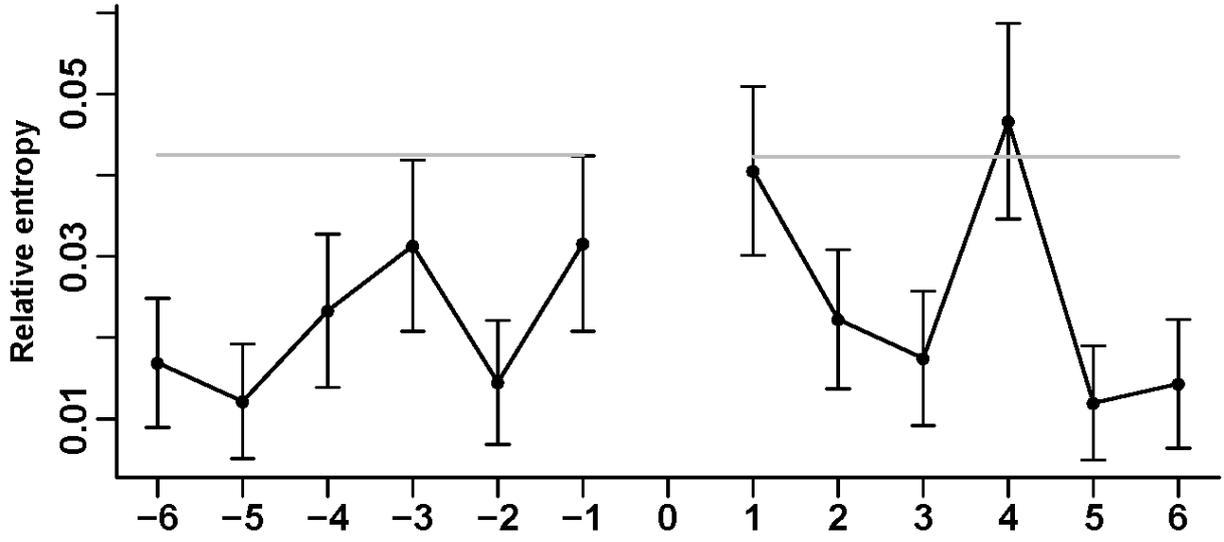




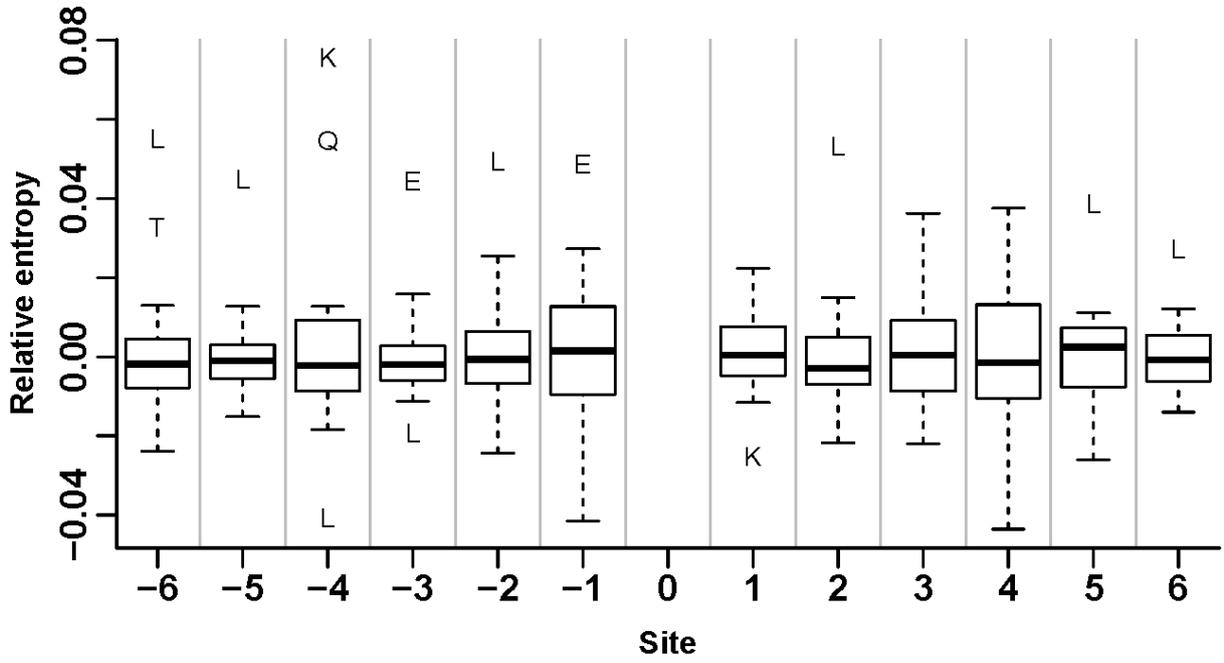
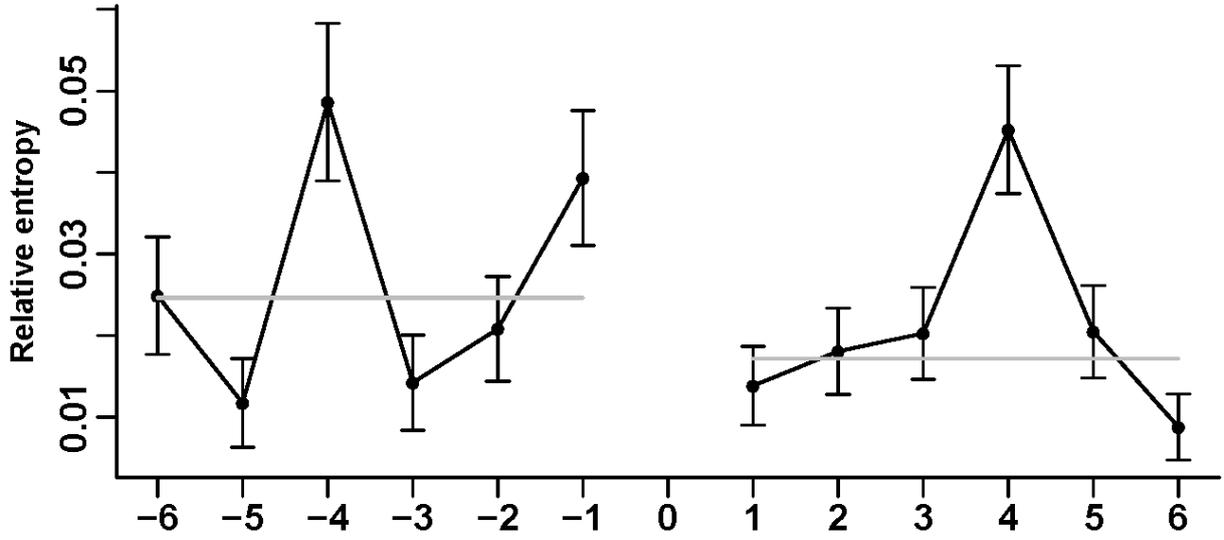
E→A



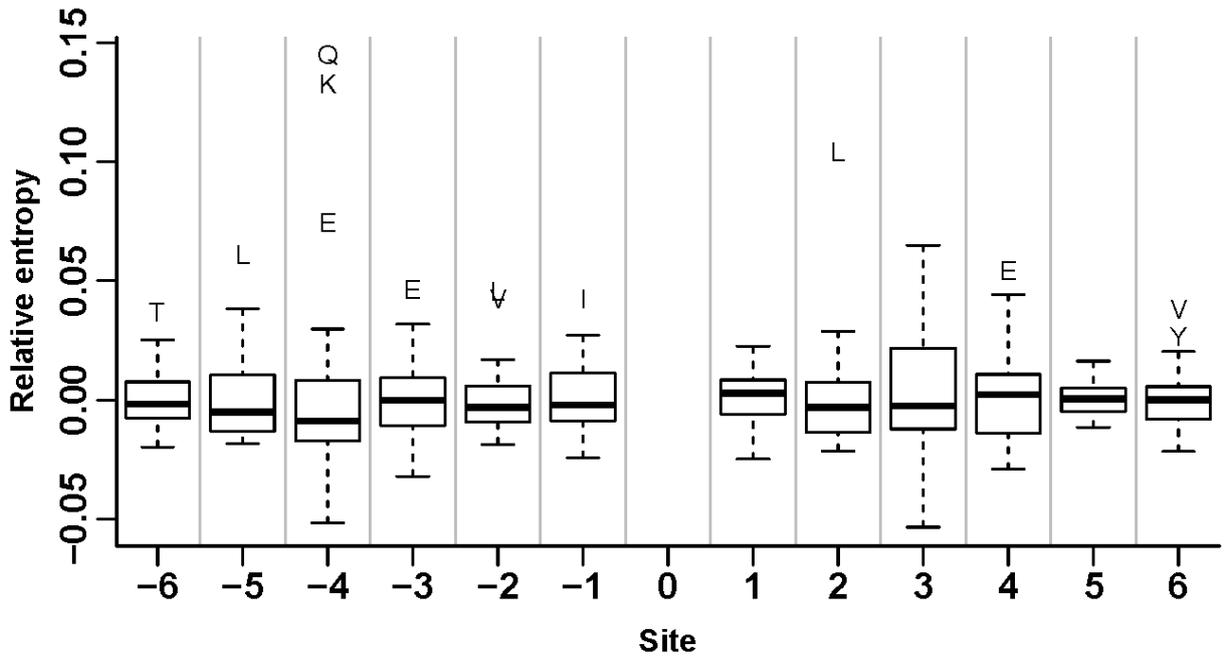
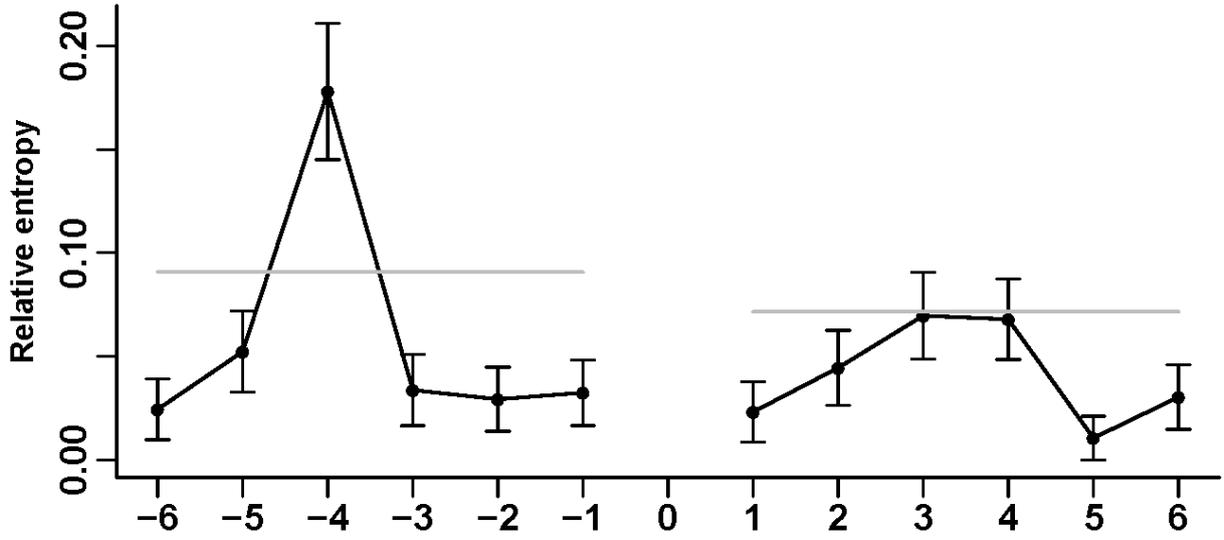
E→K



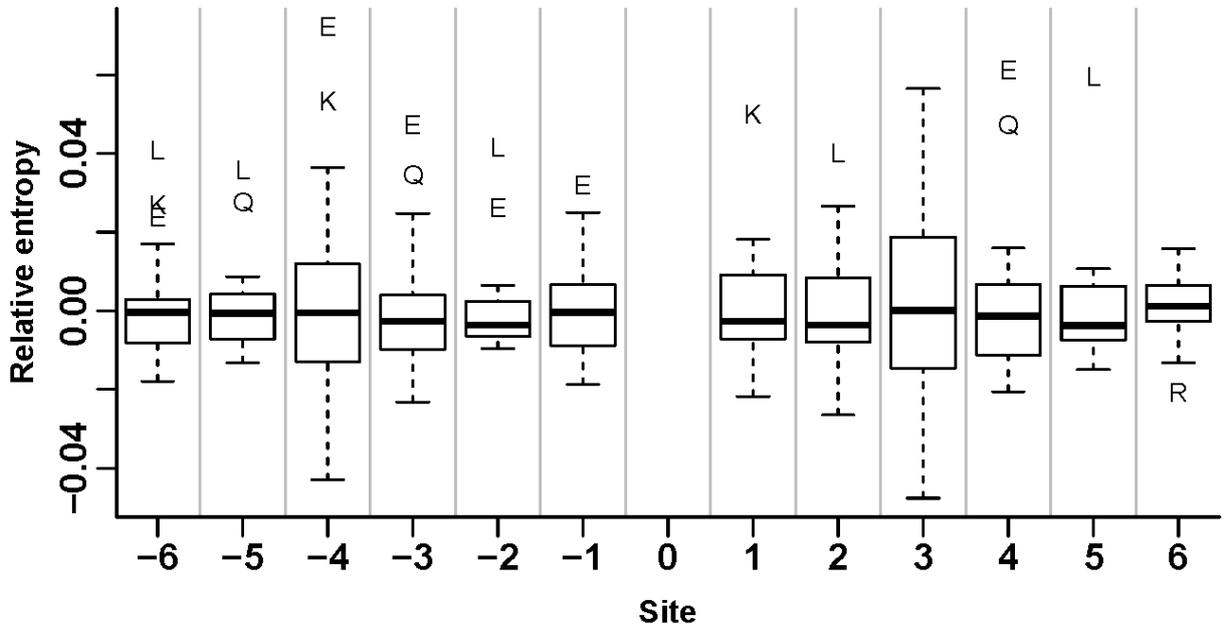
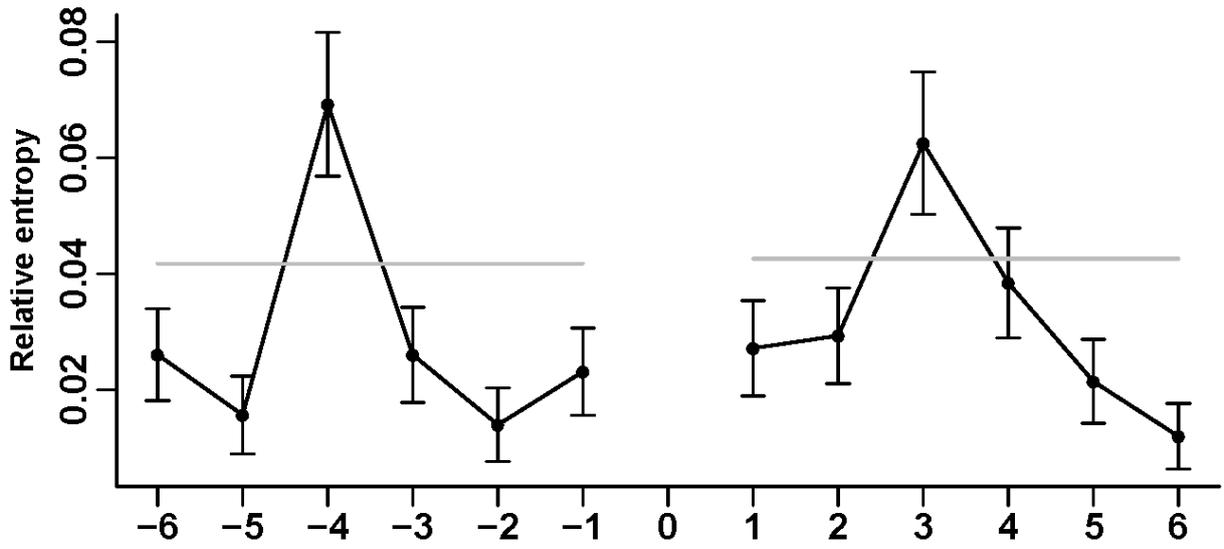
E→D



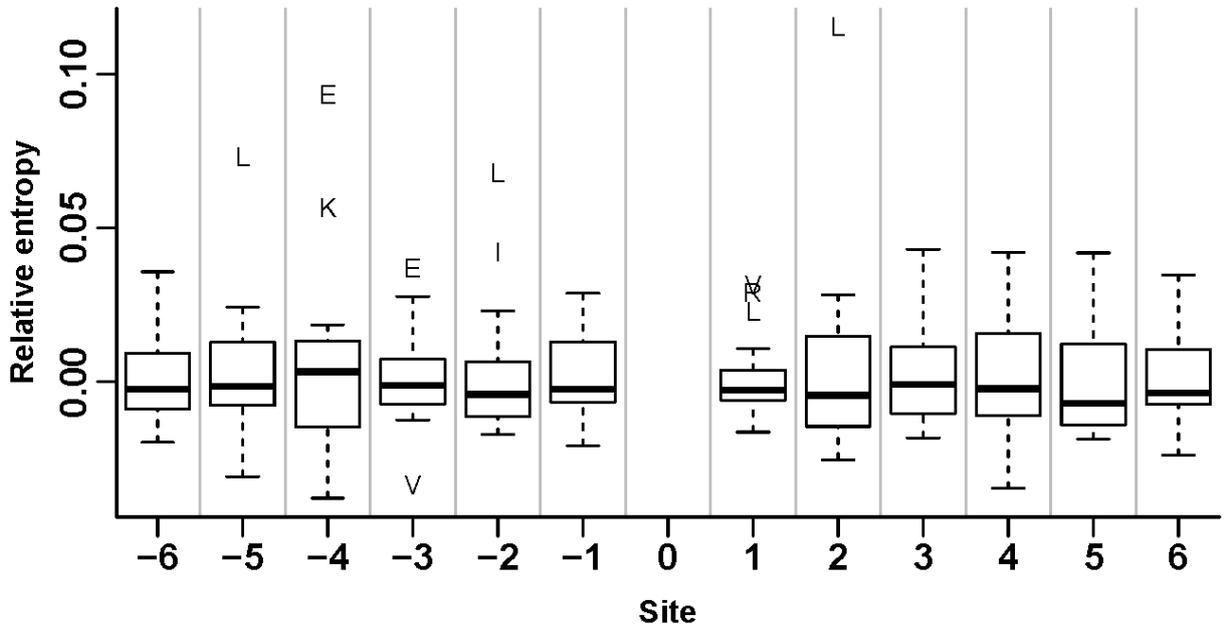
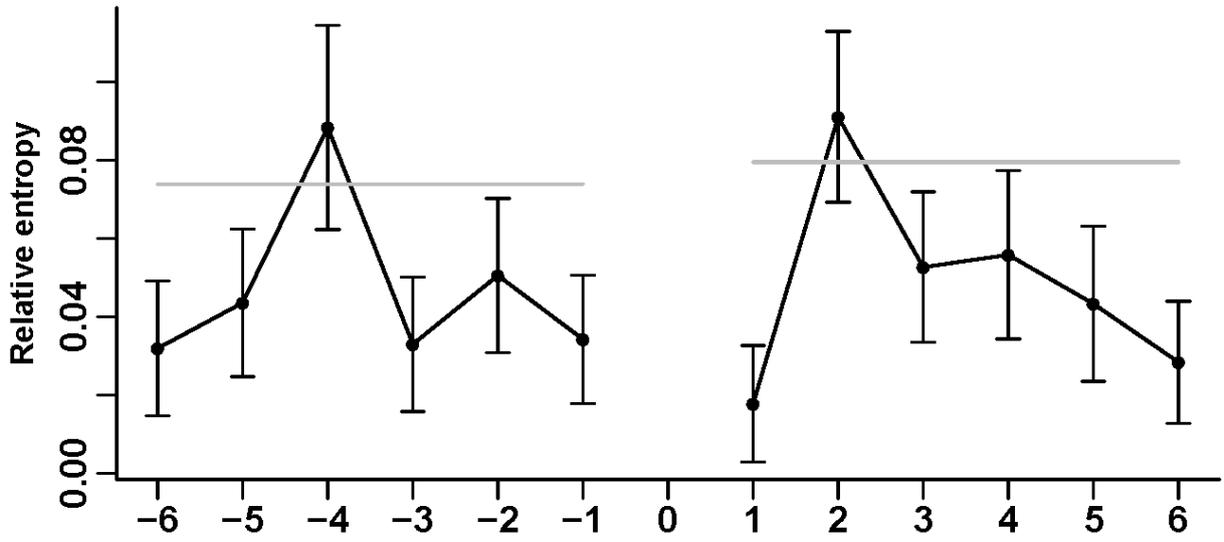
N->D

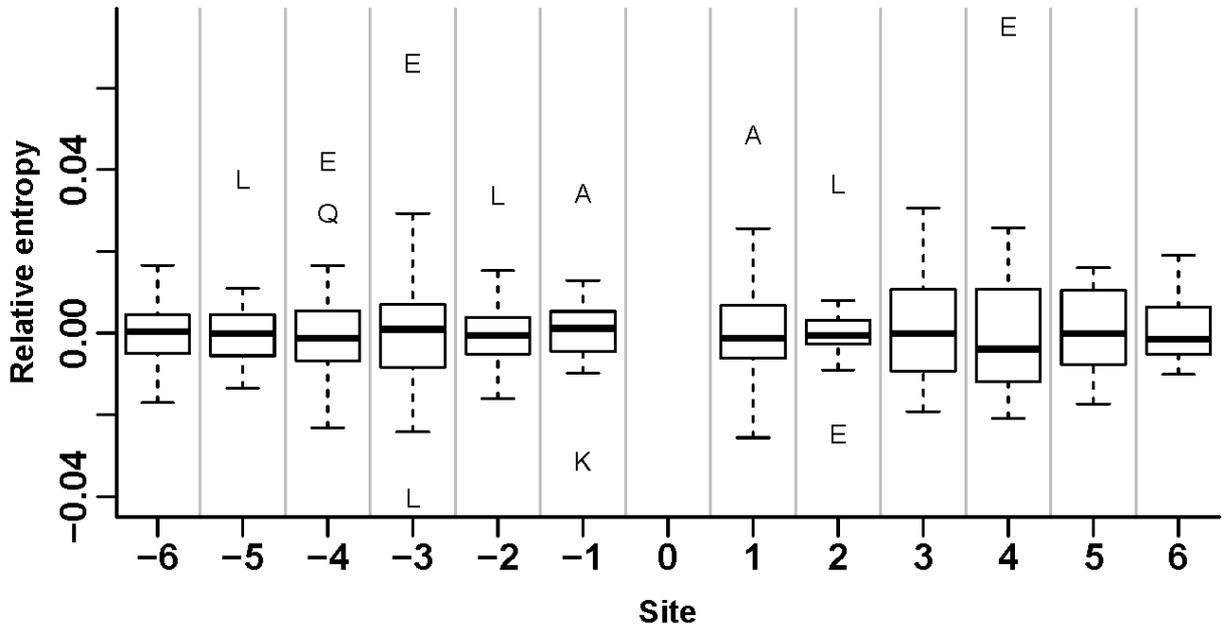
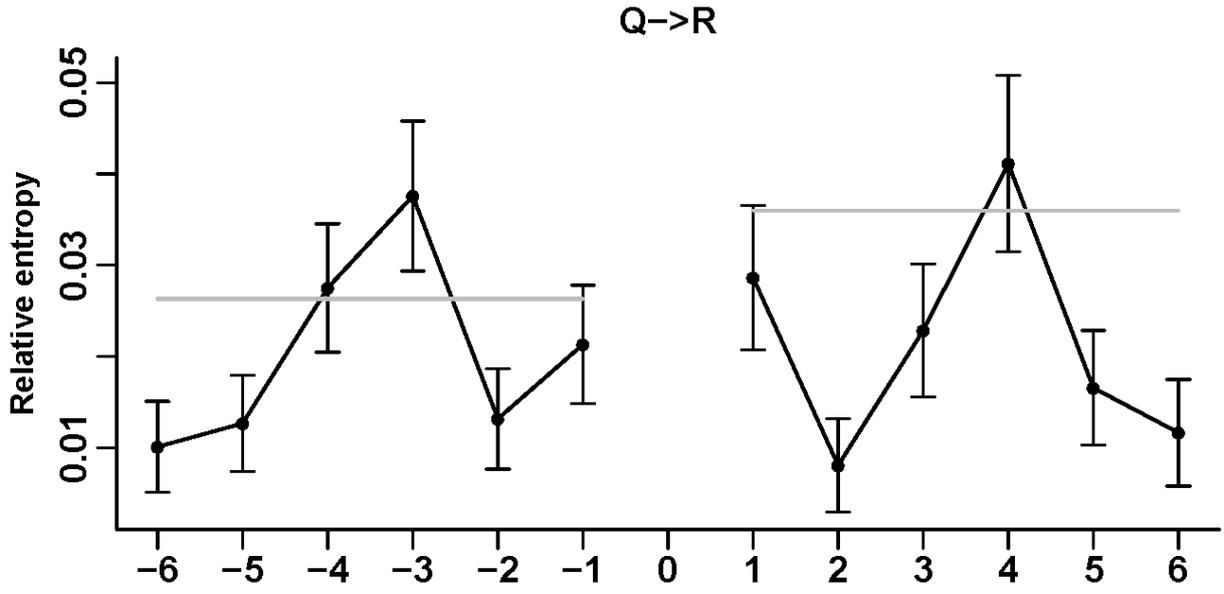


N→S

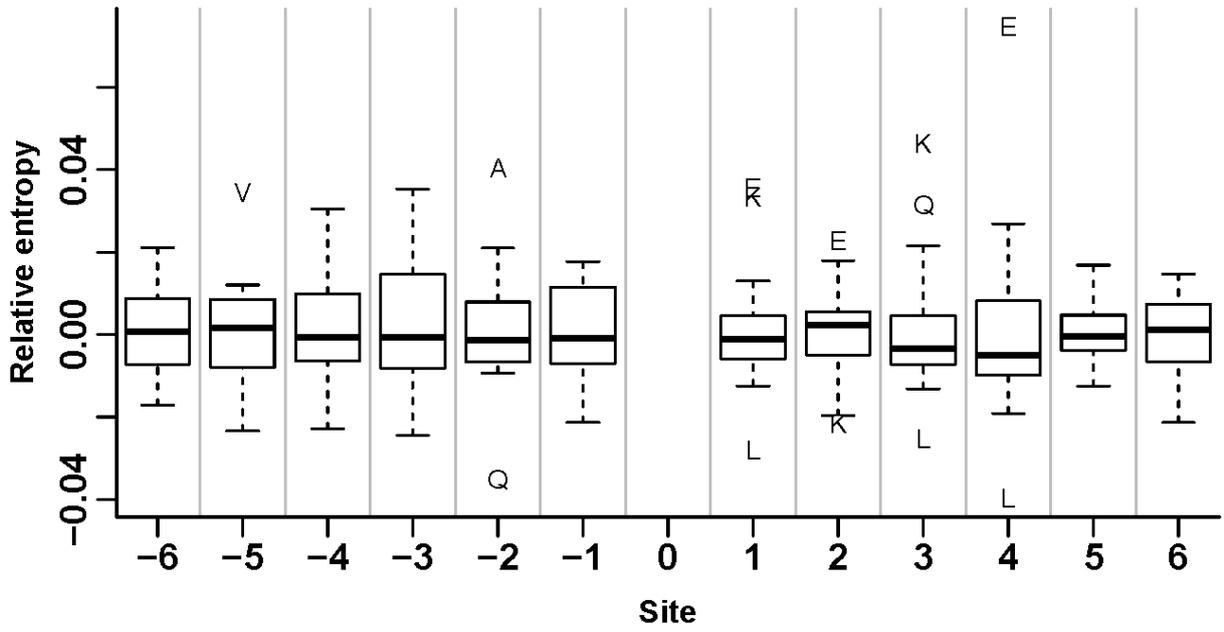
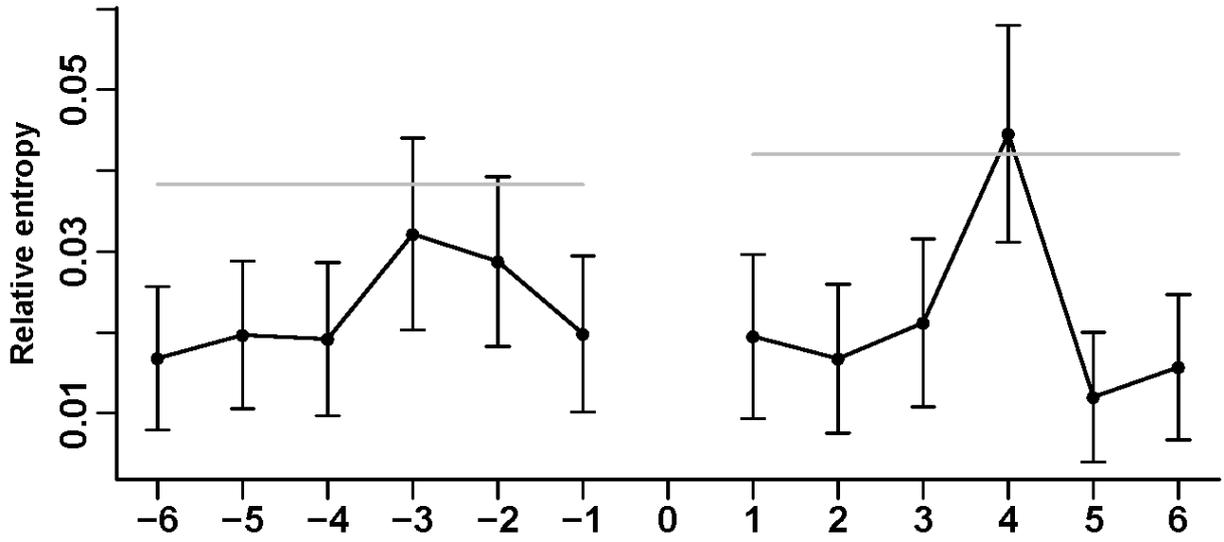


C->S

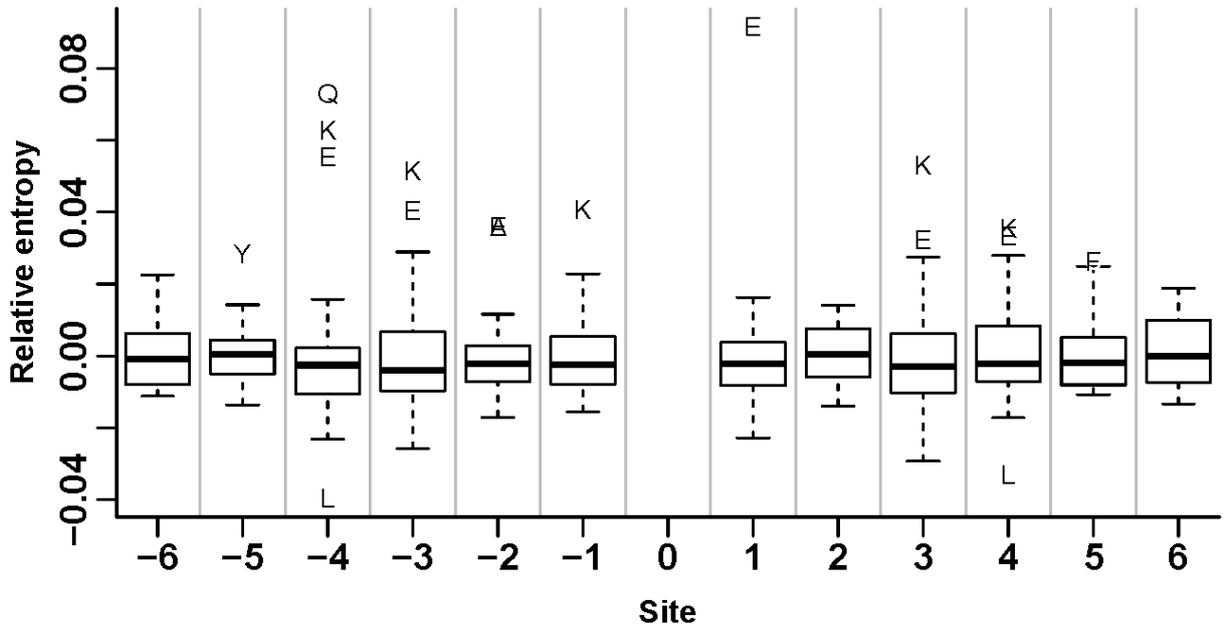
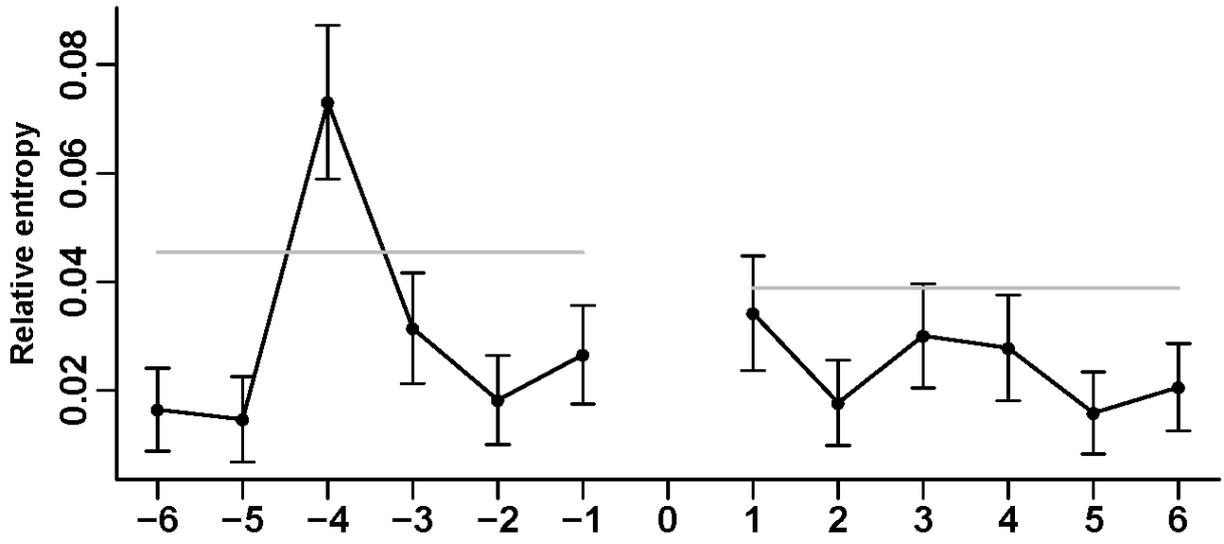




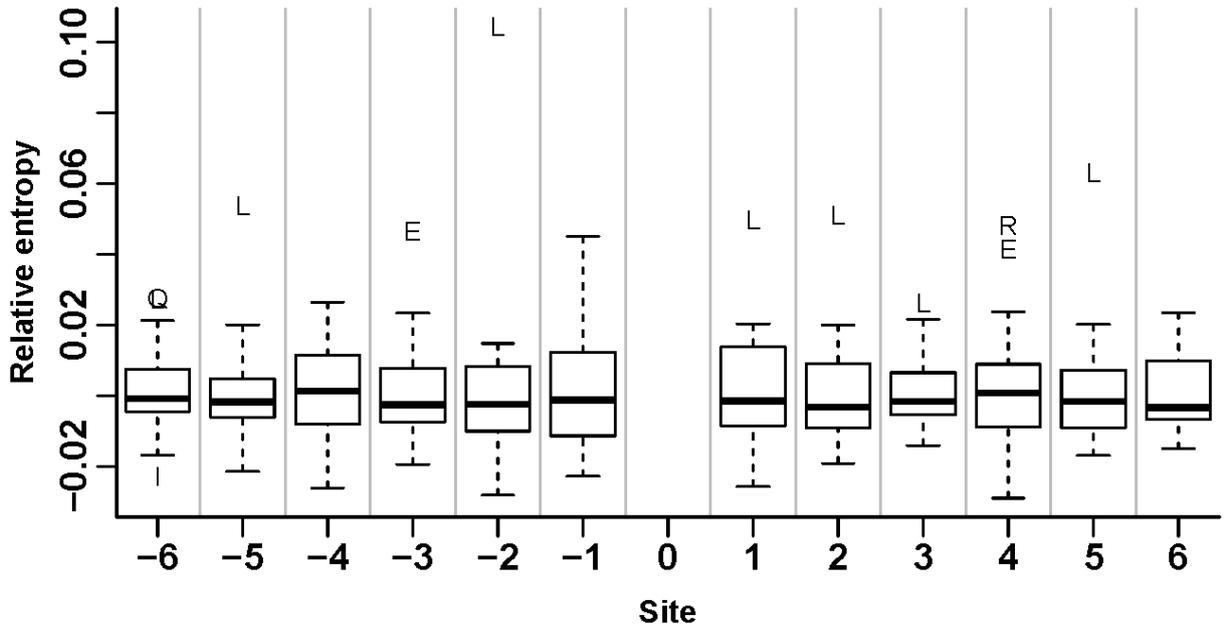
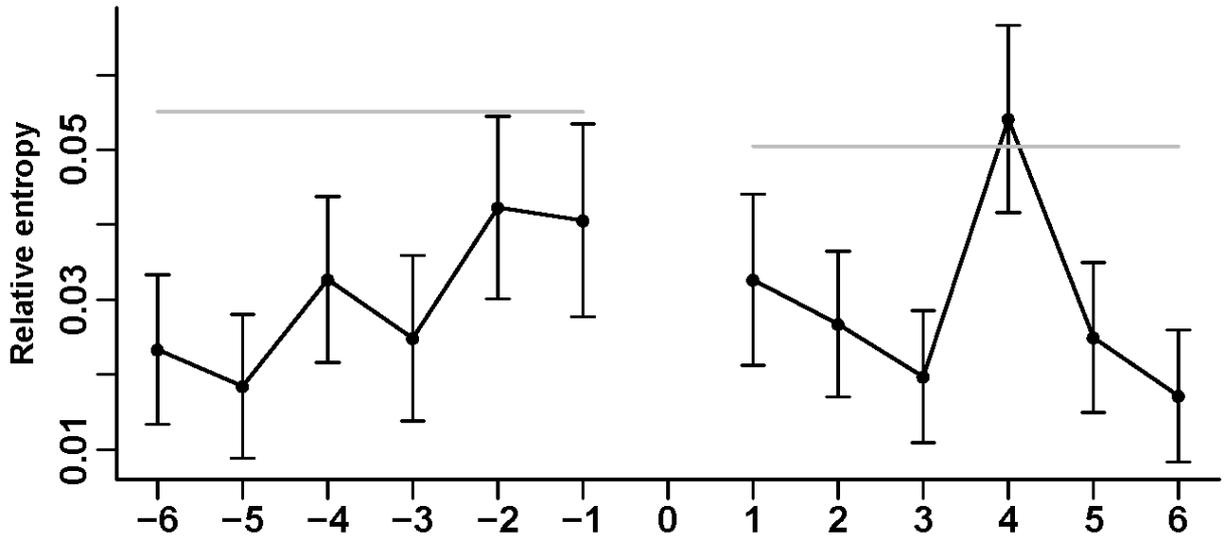
Q→K



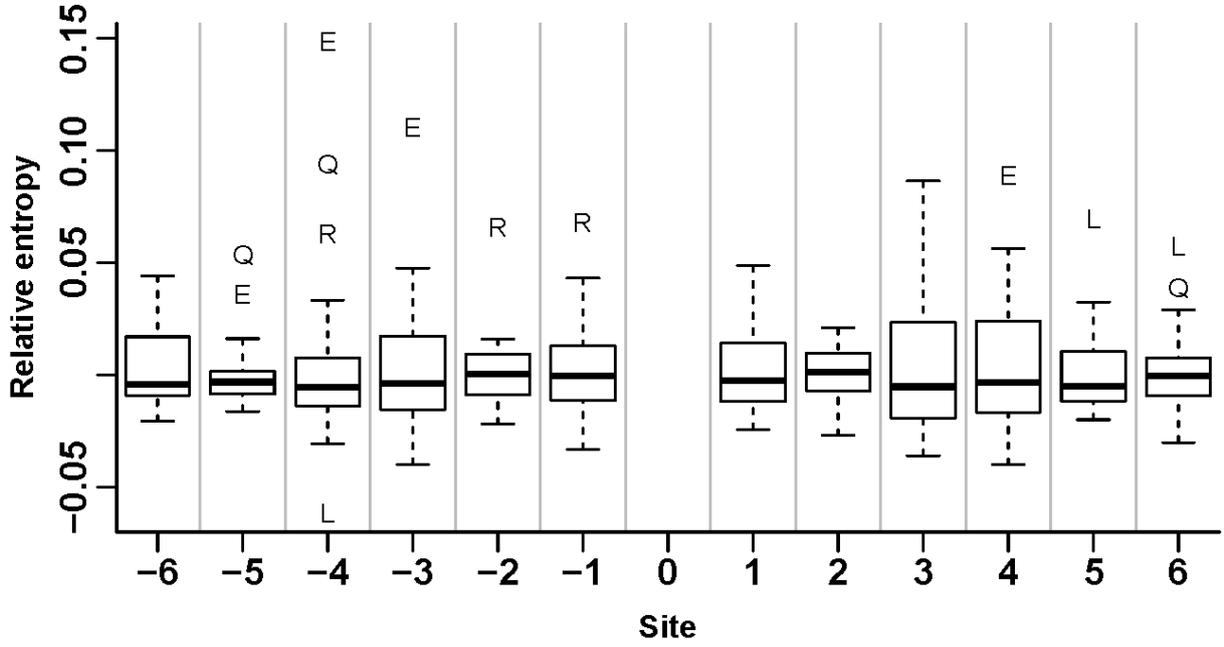
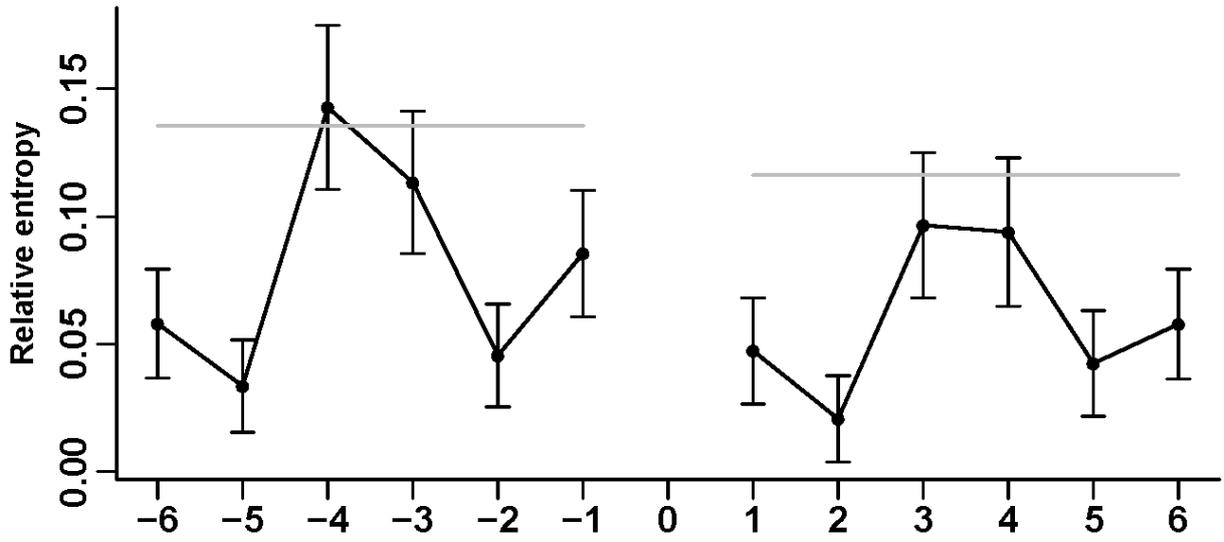
Q→E

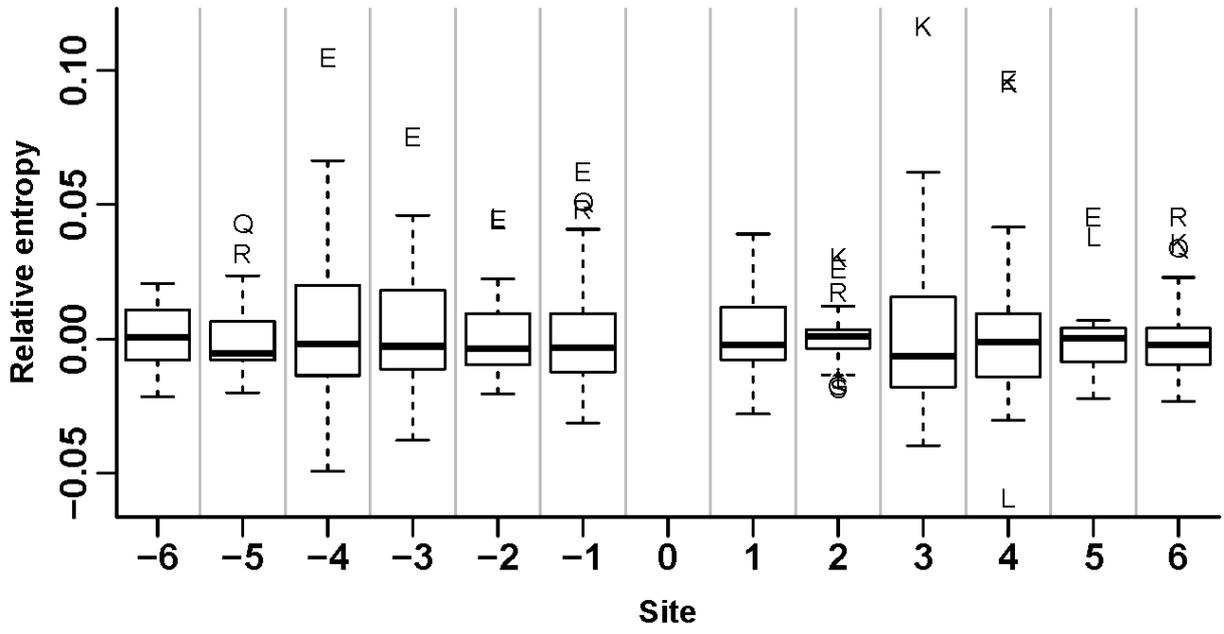
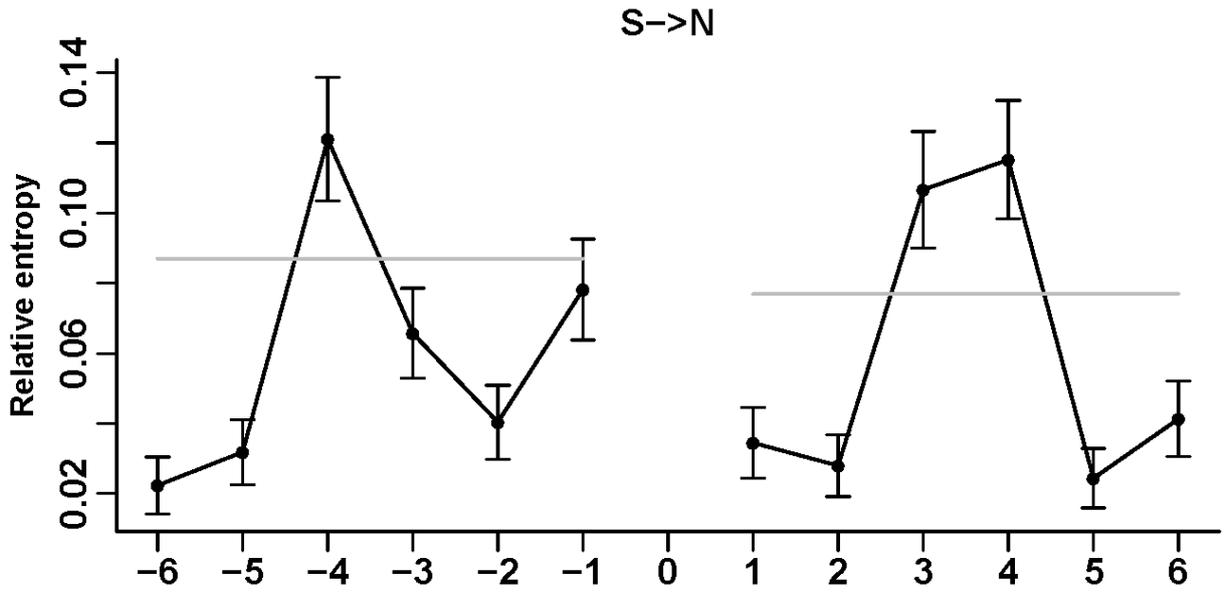


S→G

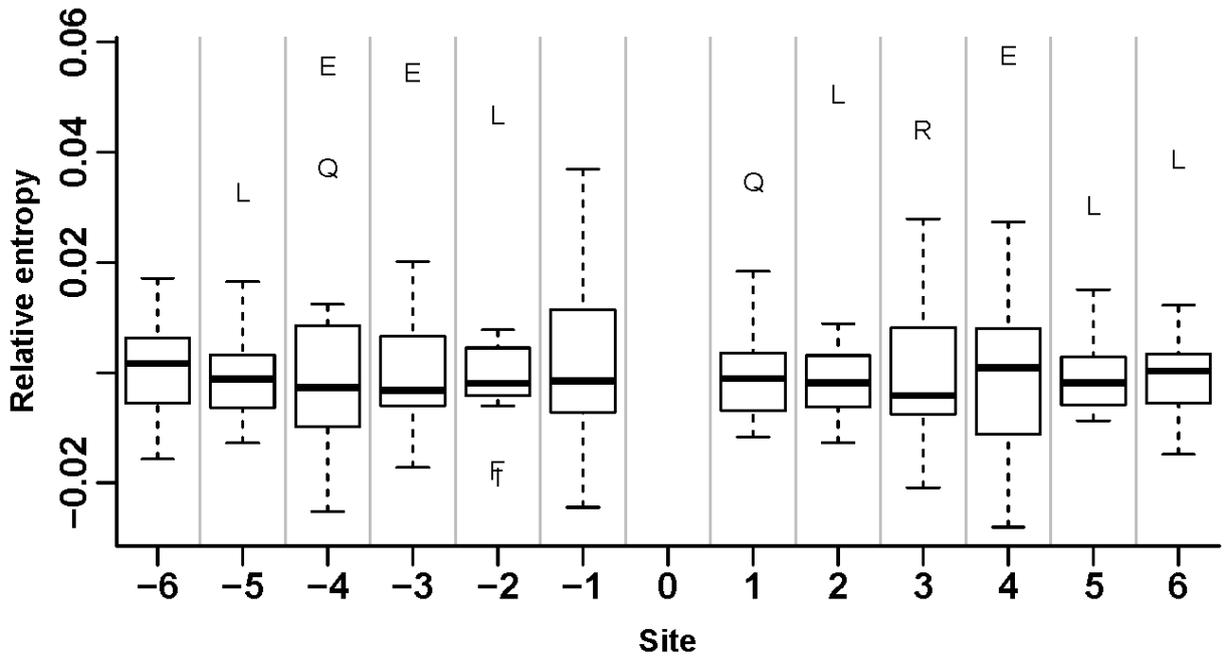
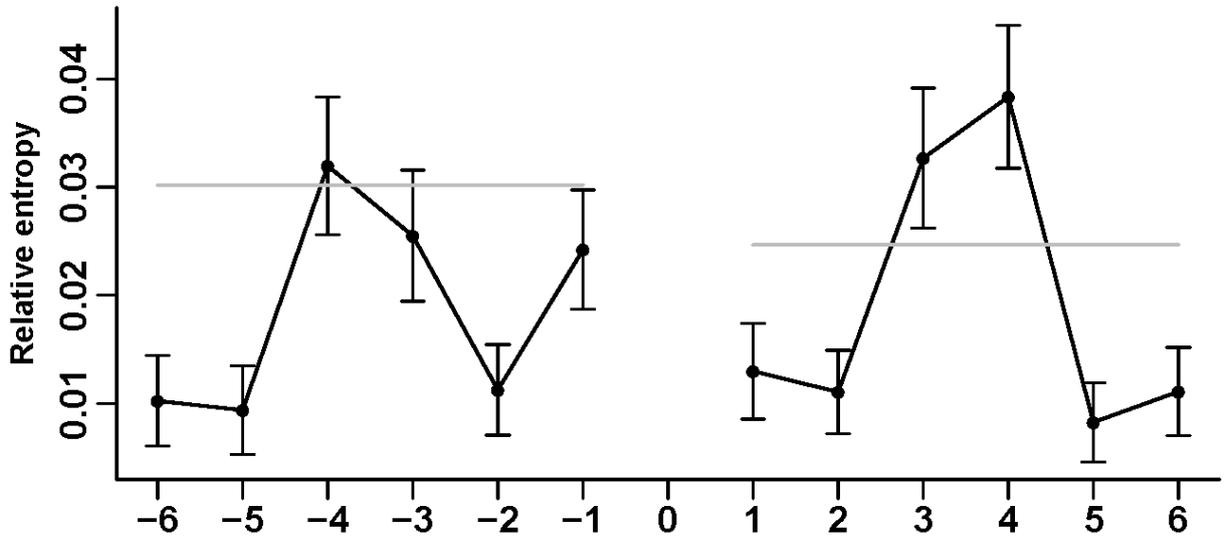


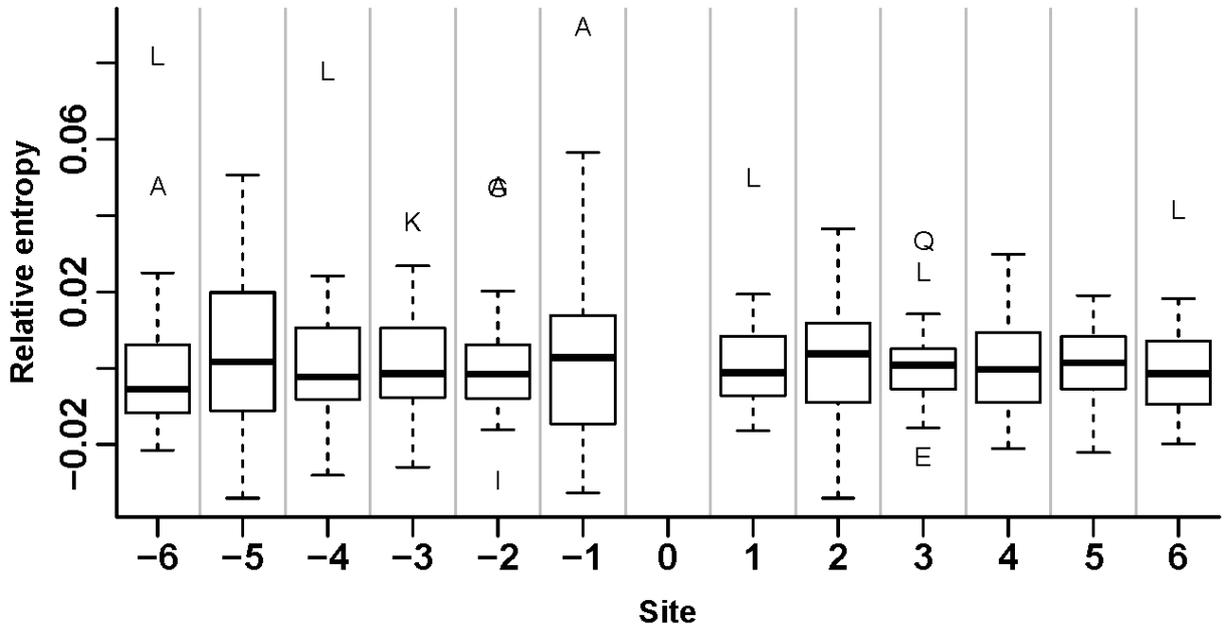
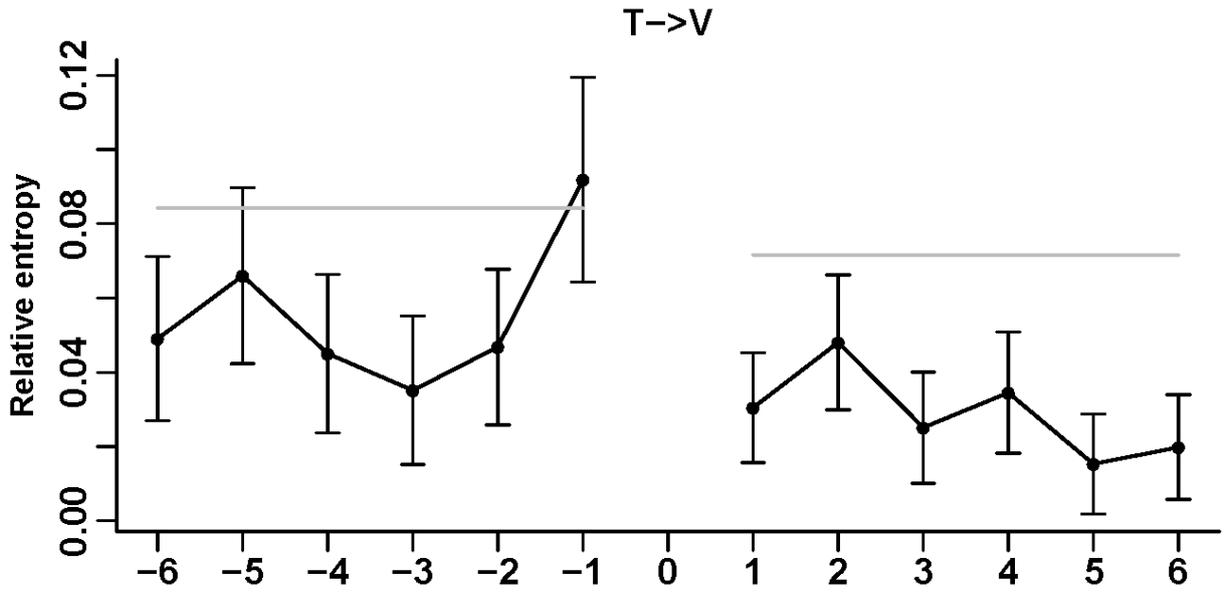
S→R



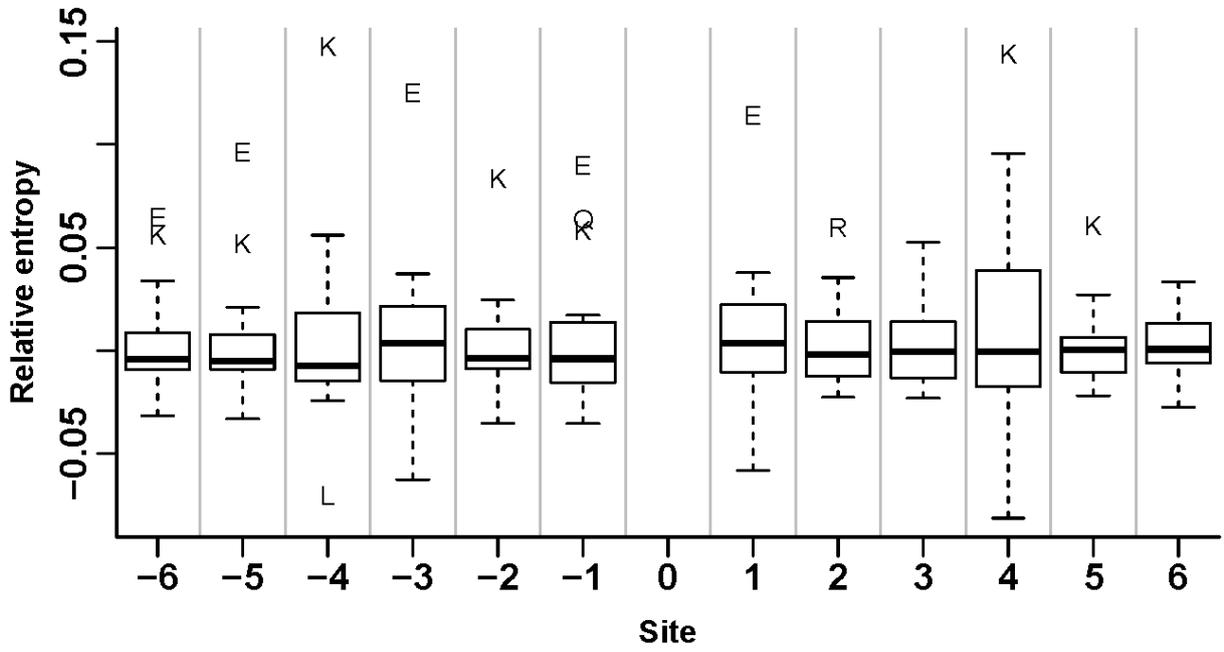
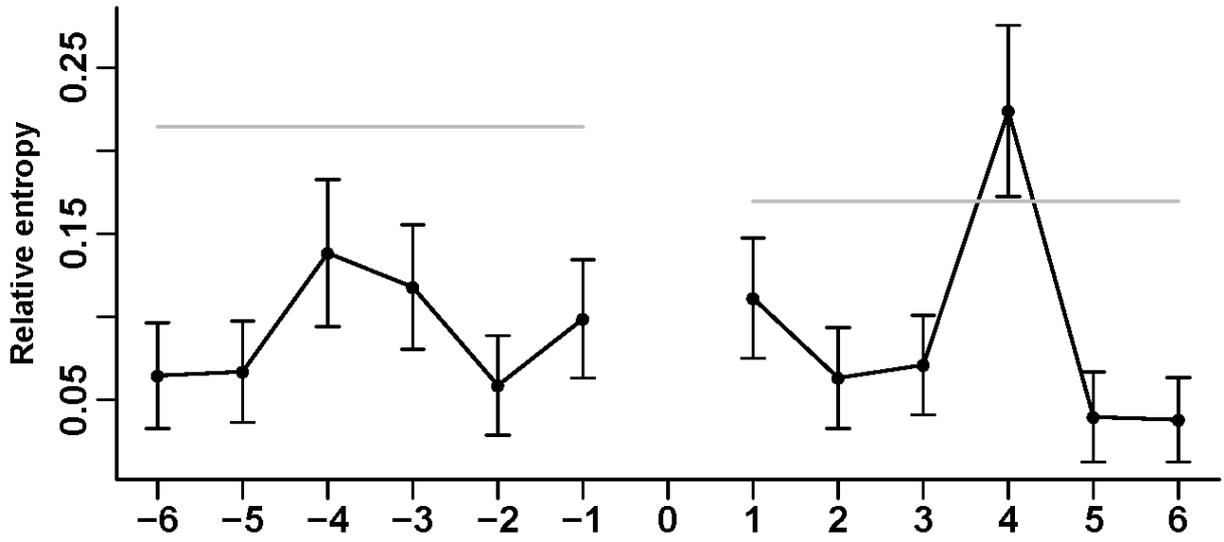


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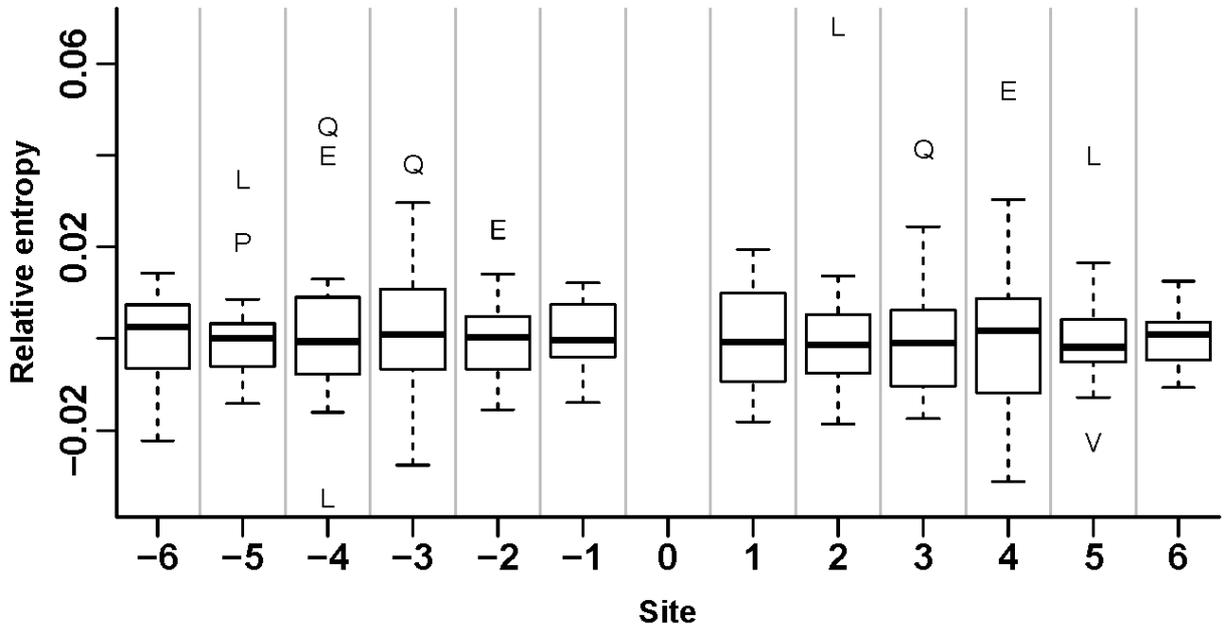
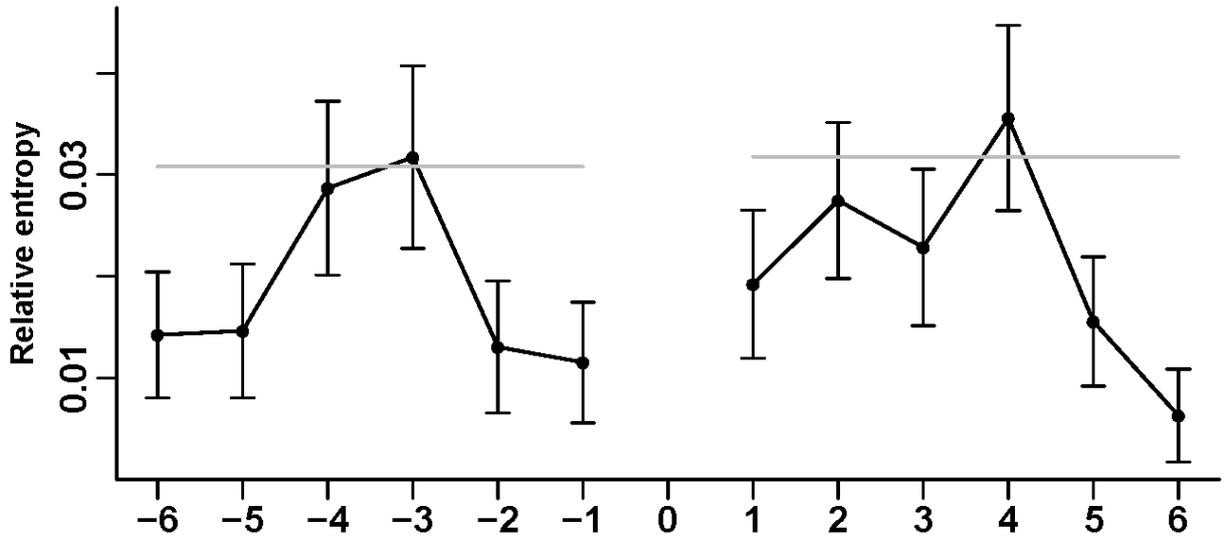




T->K



T->S



Y->H

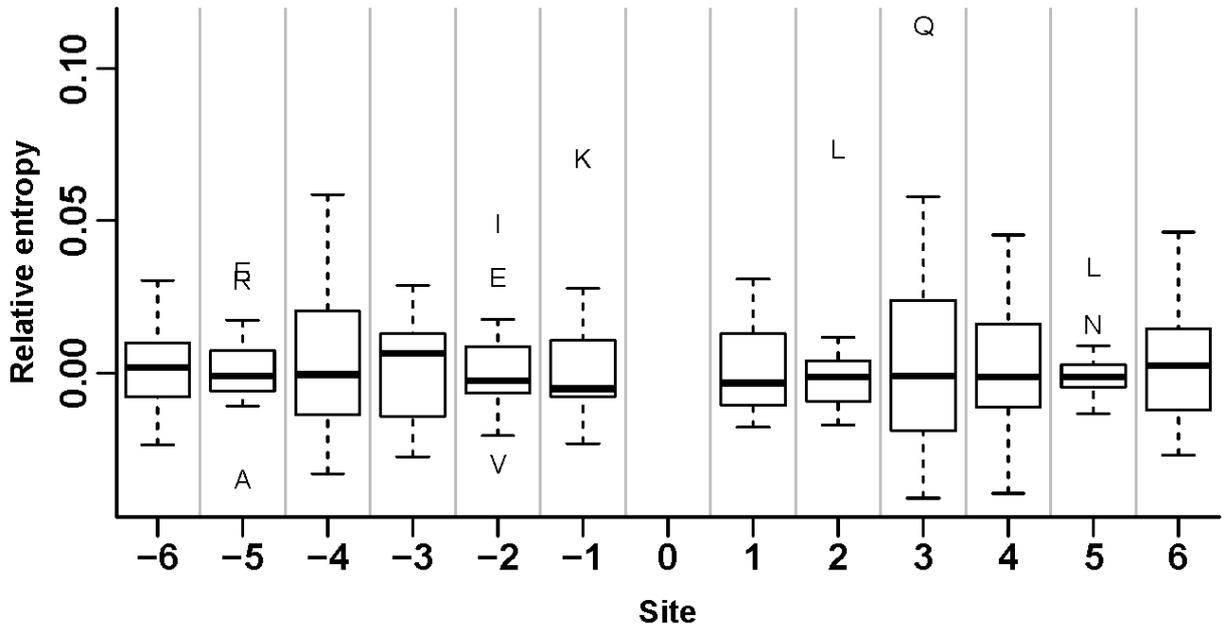
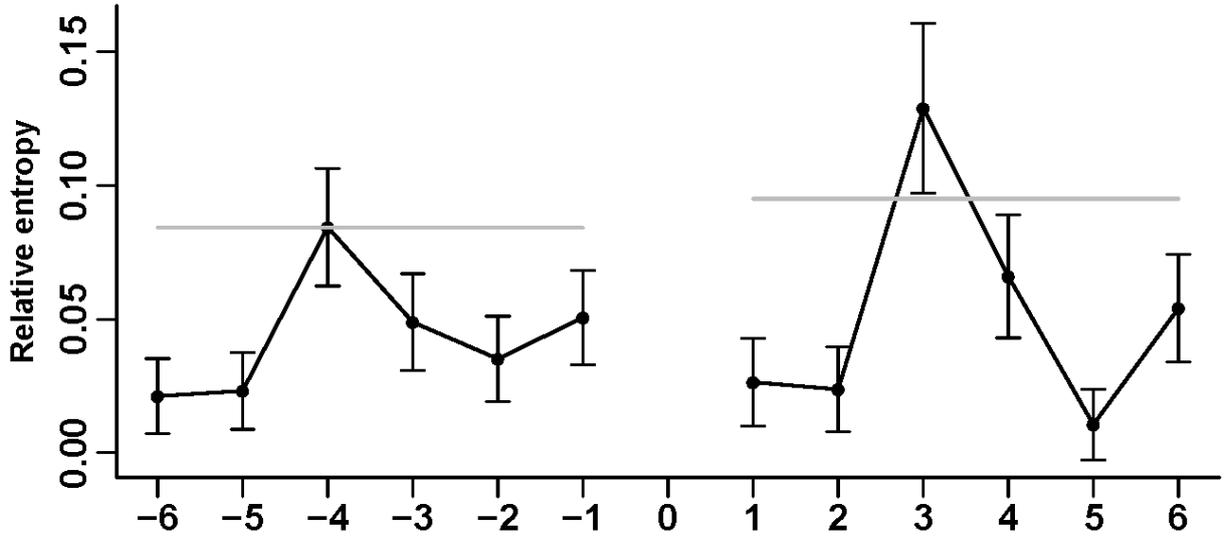
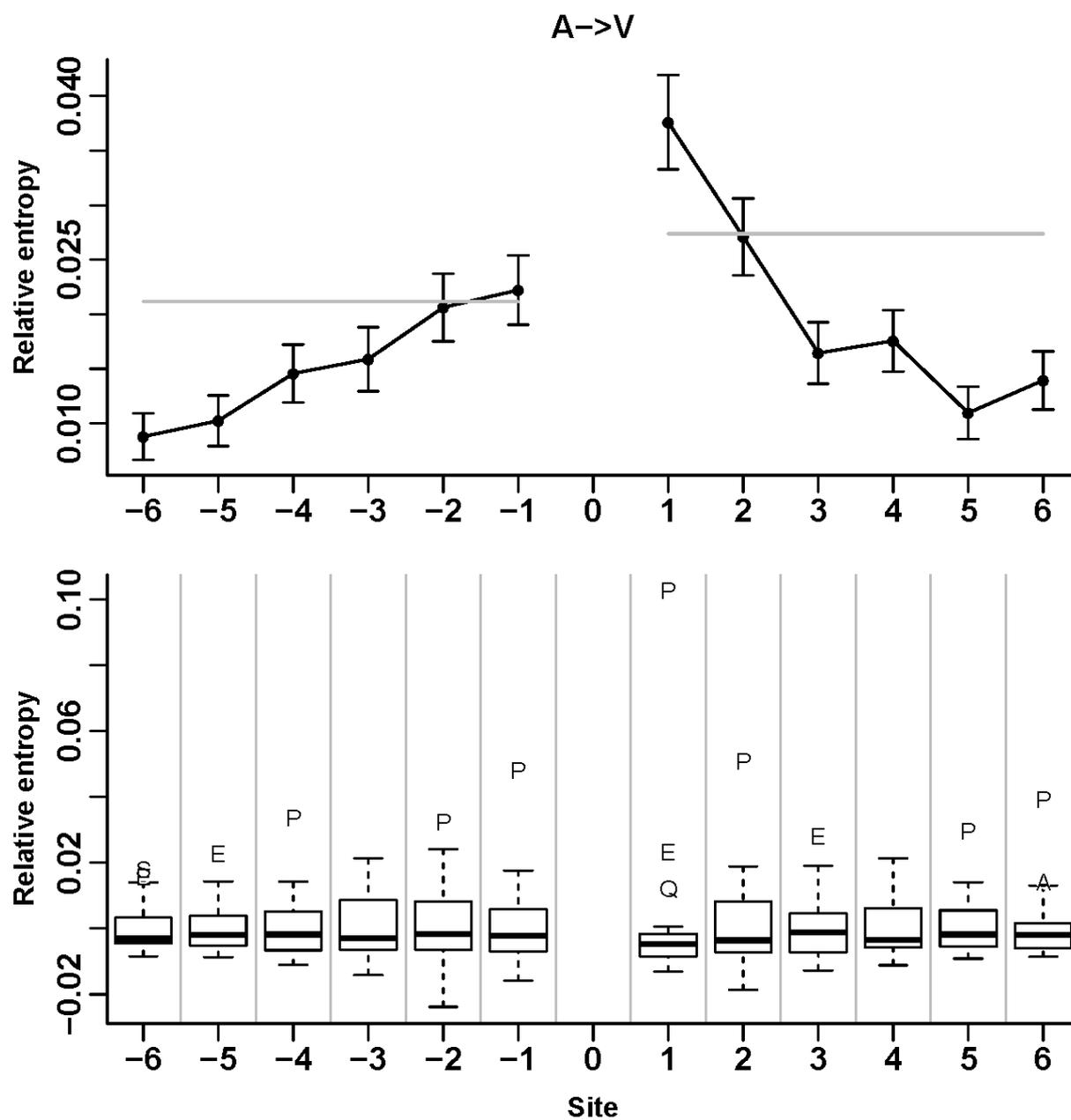
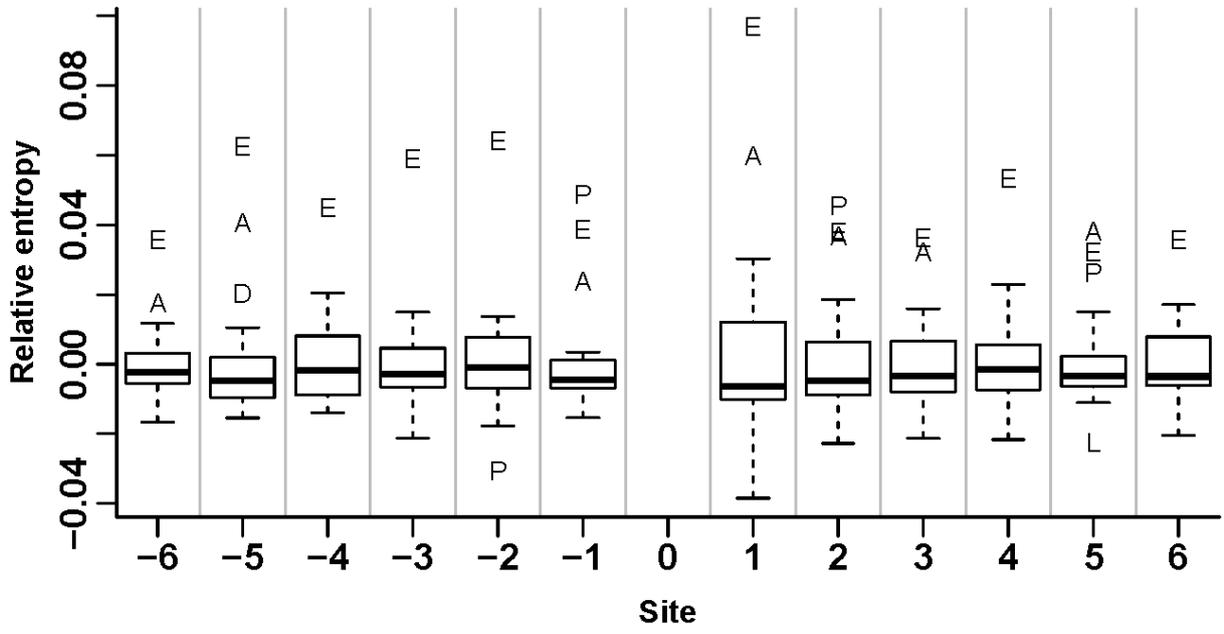
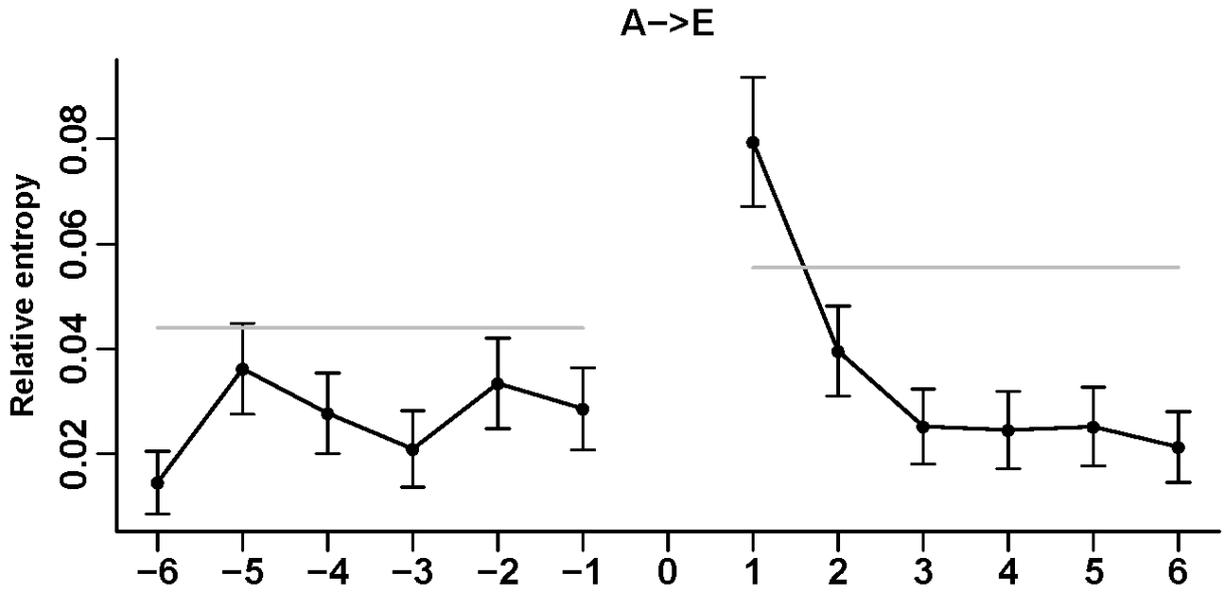
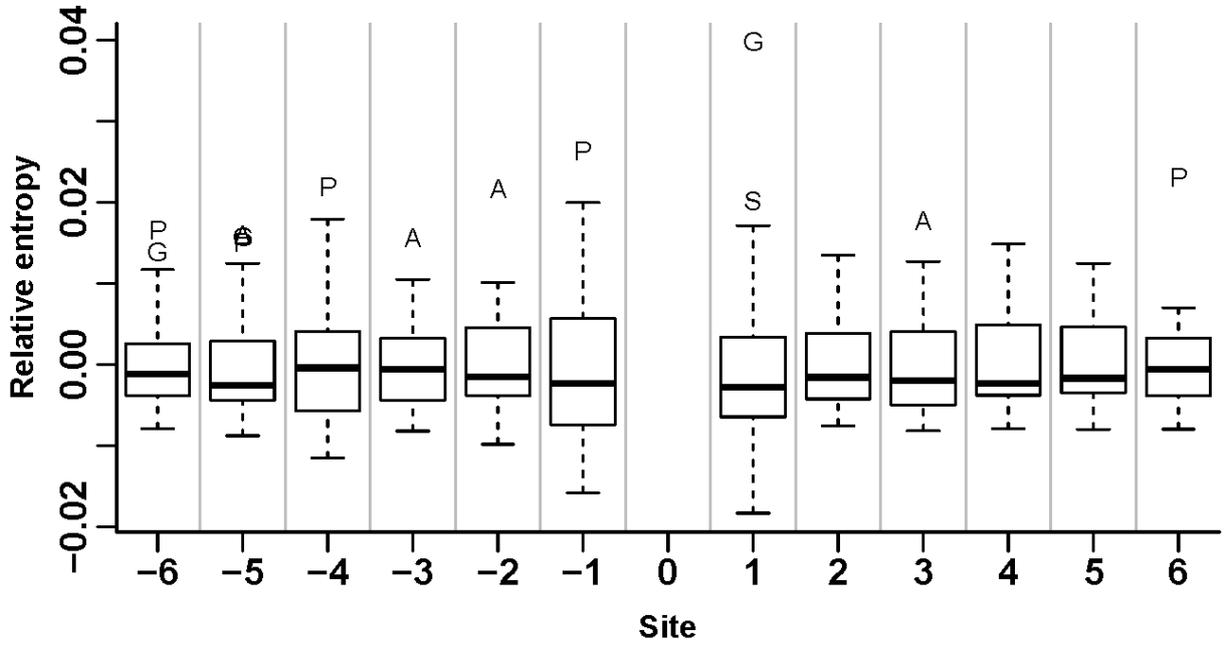
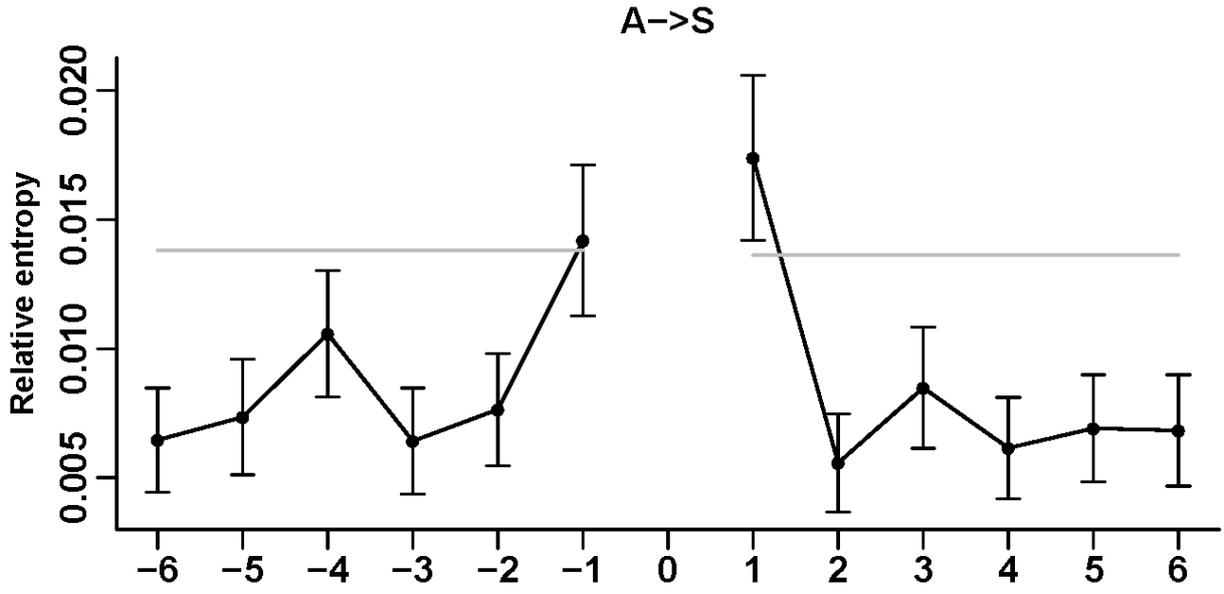
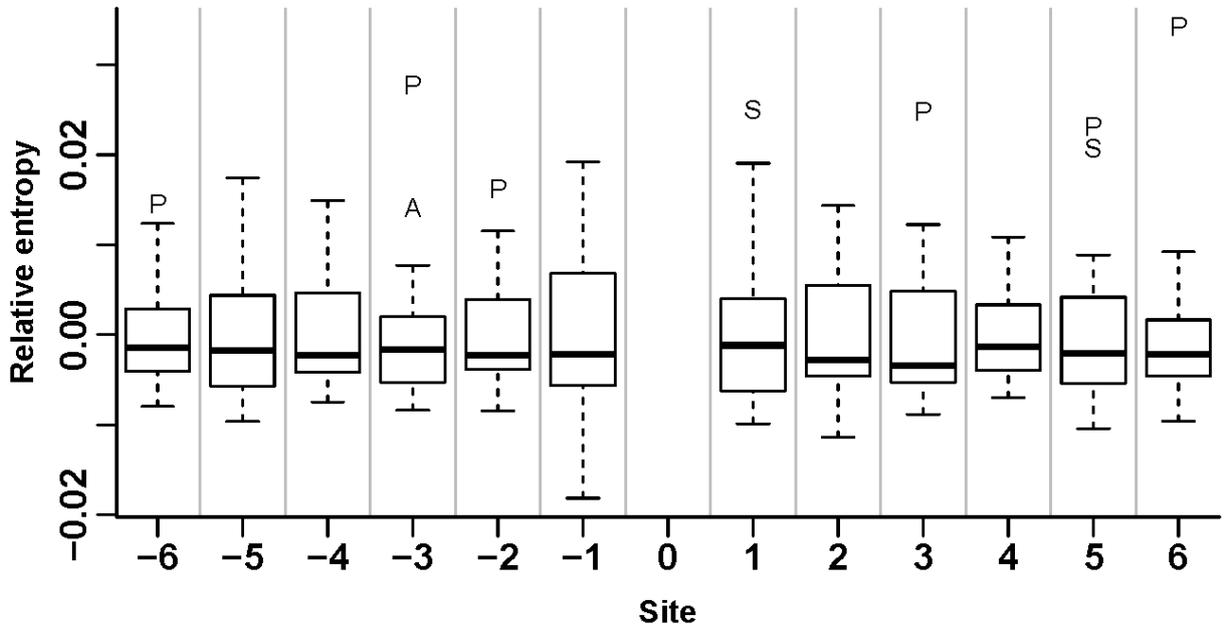
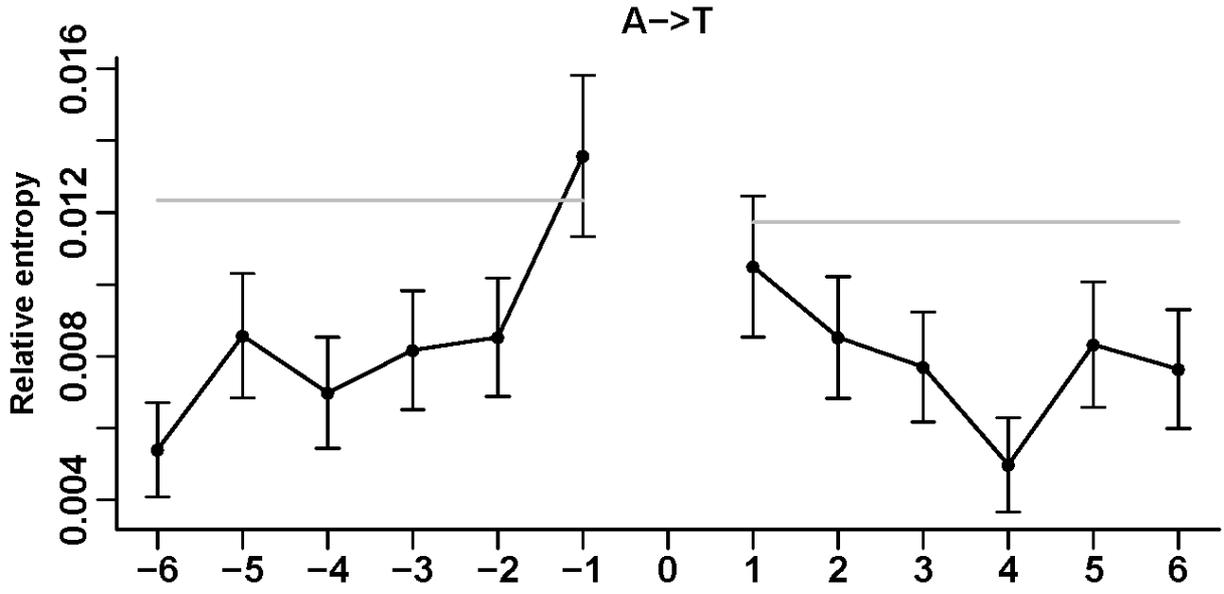


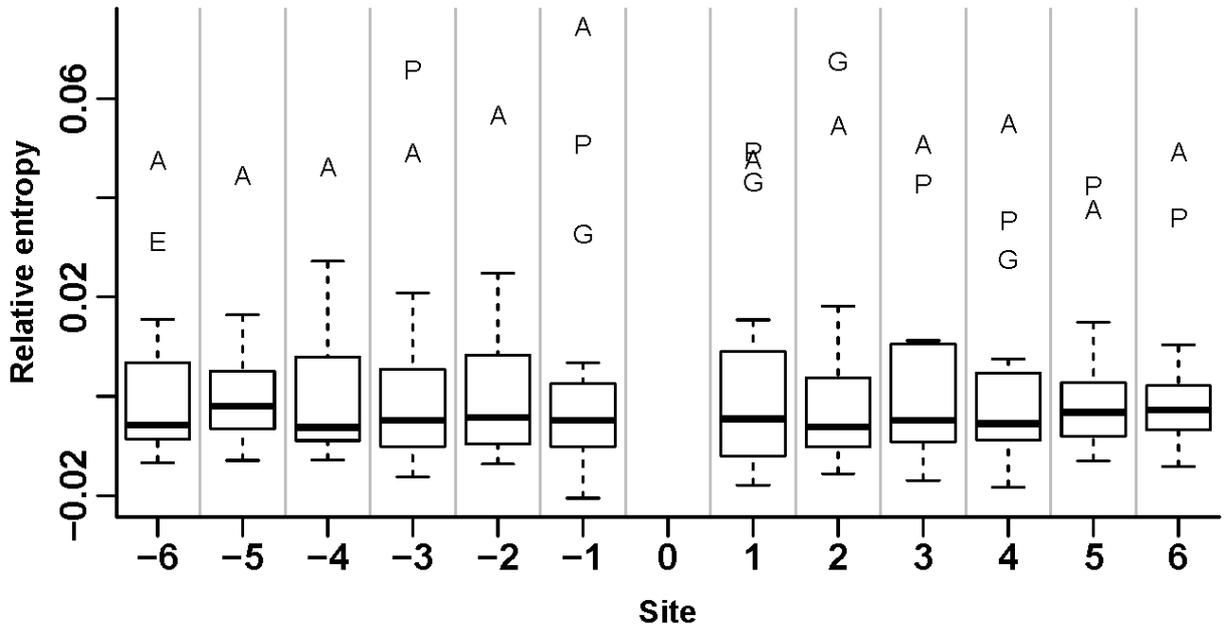
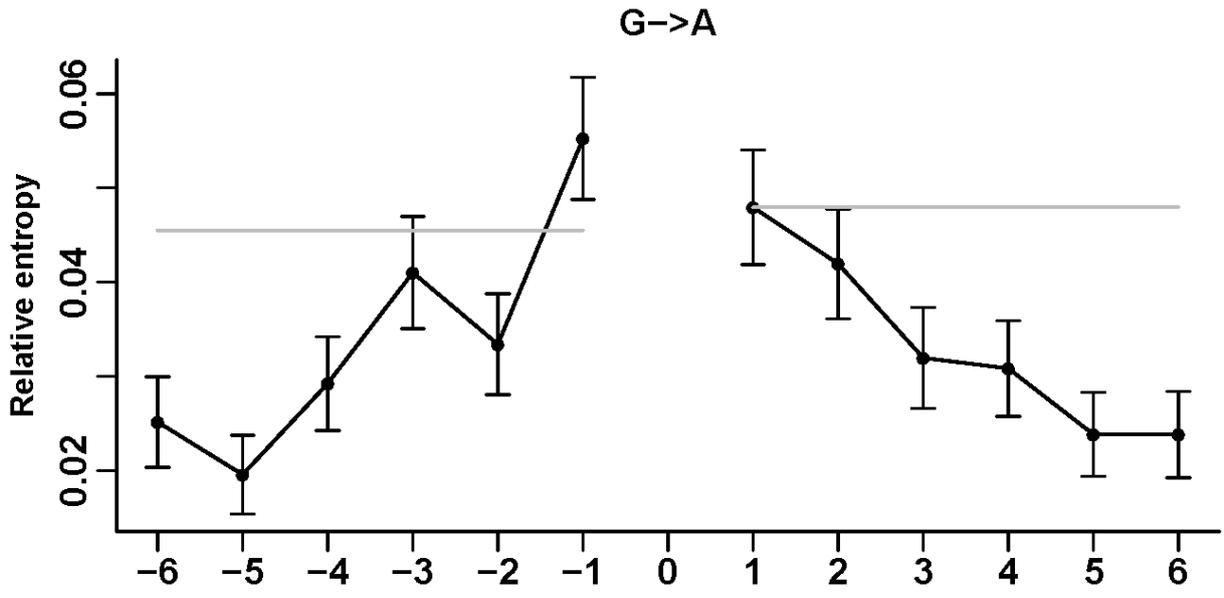
Figure S7. Context-dependence patterns of the amino acid substitutions in coil.

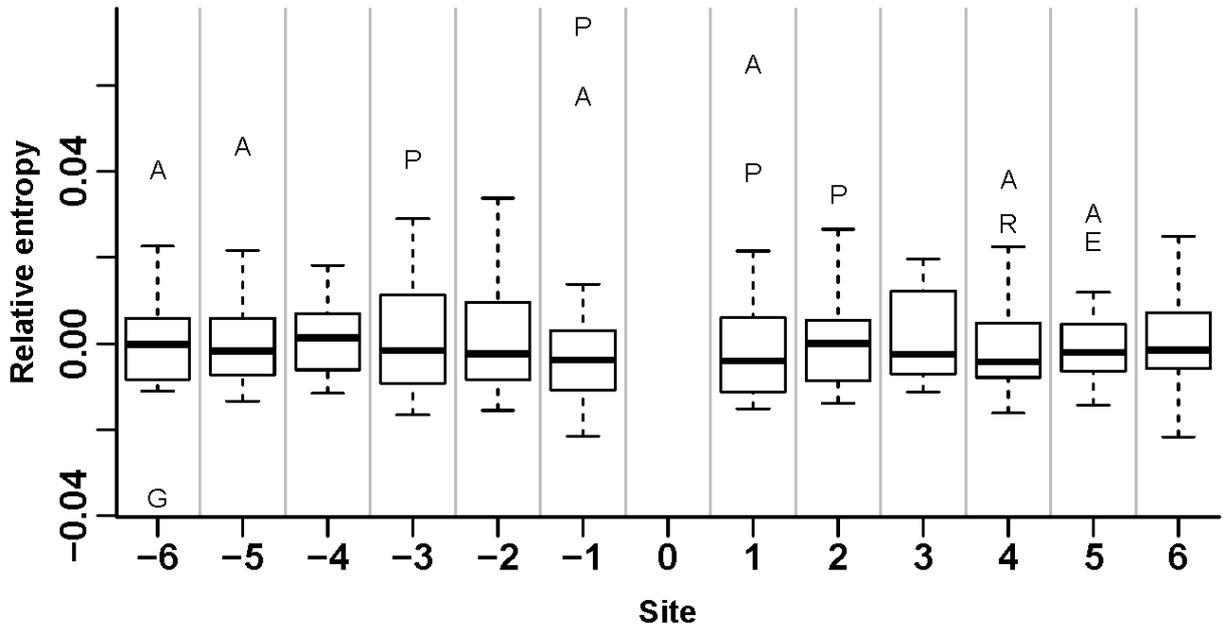
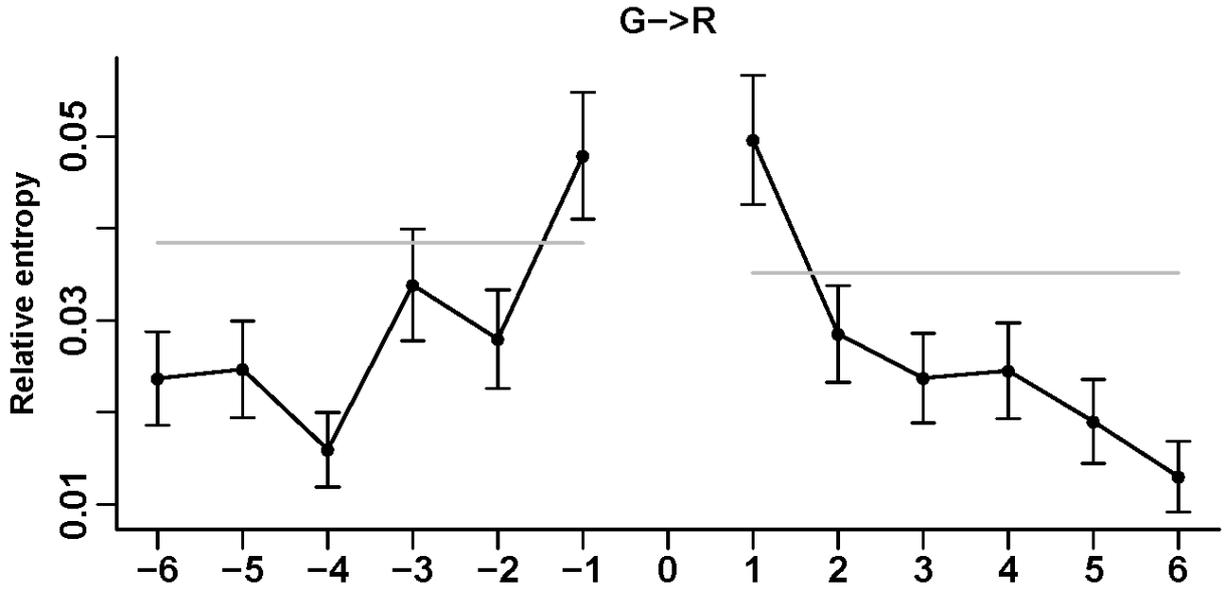


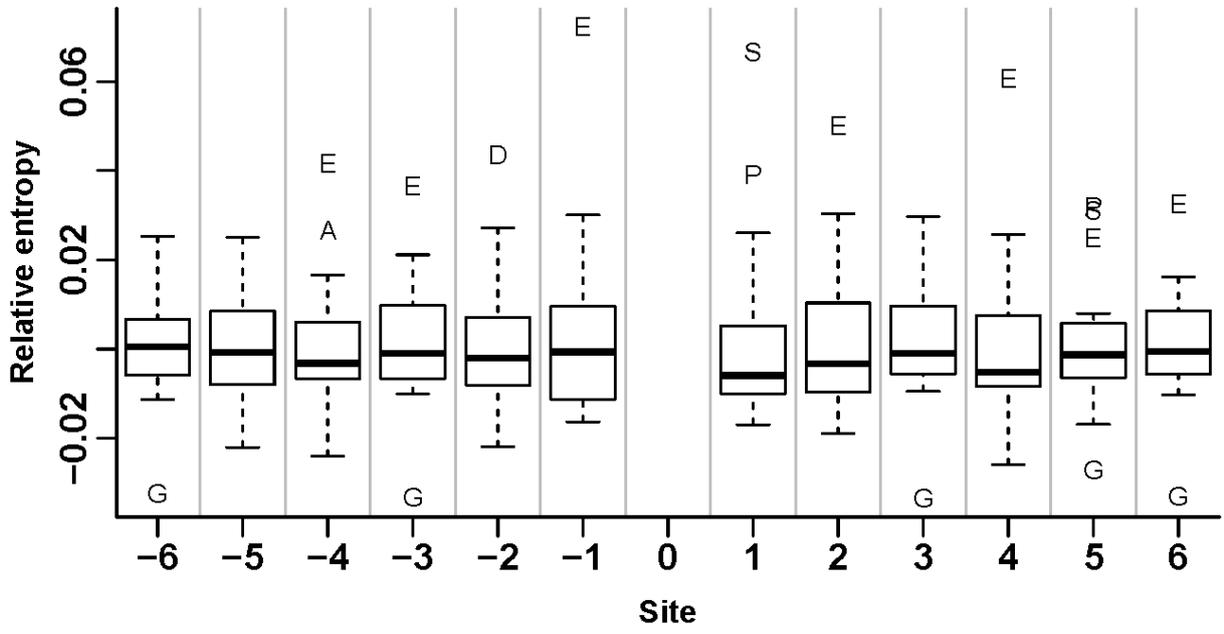
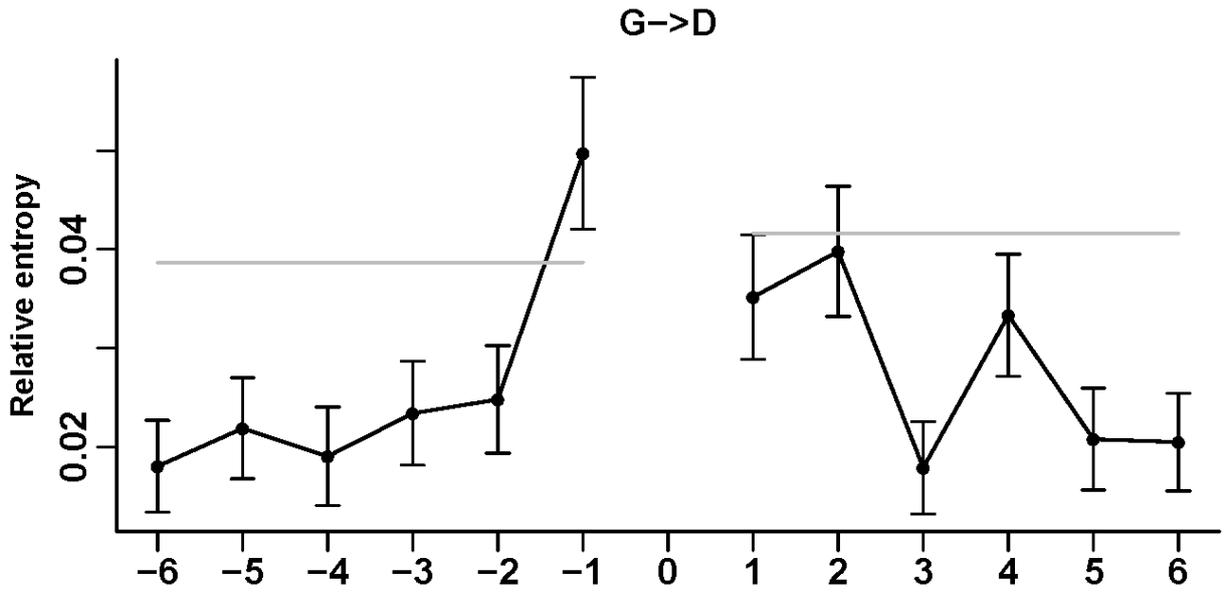


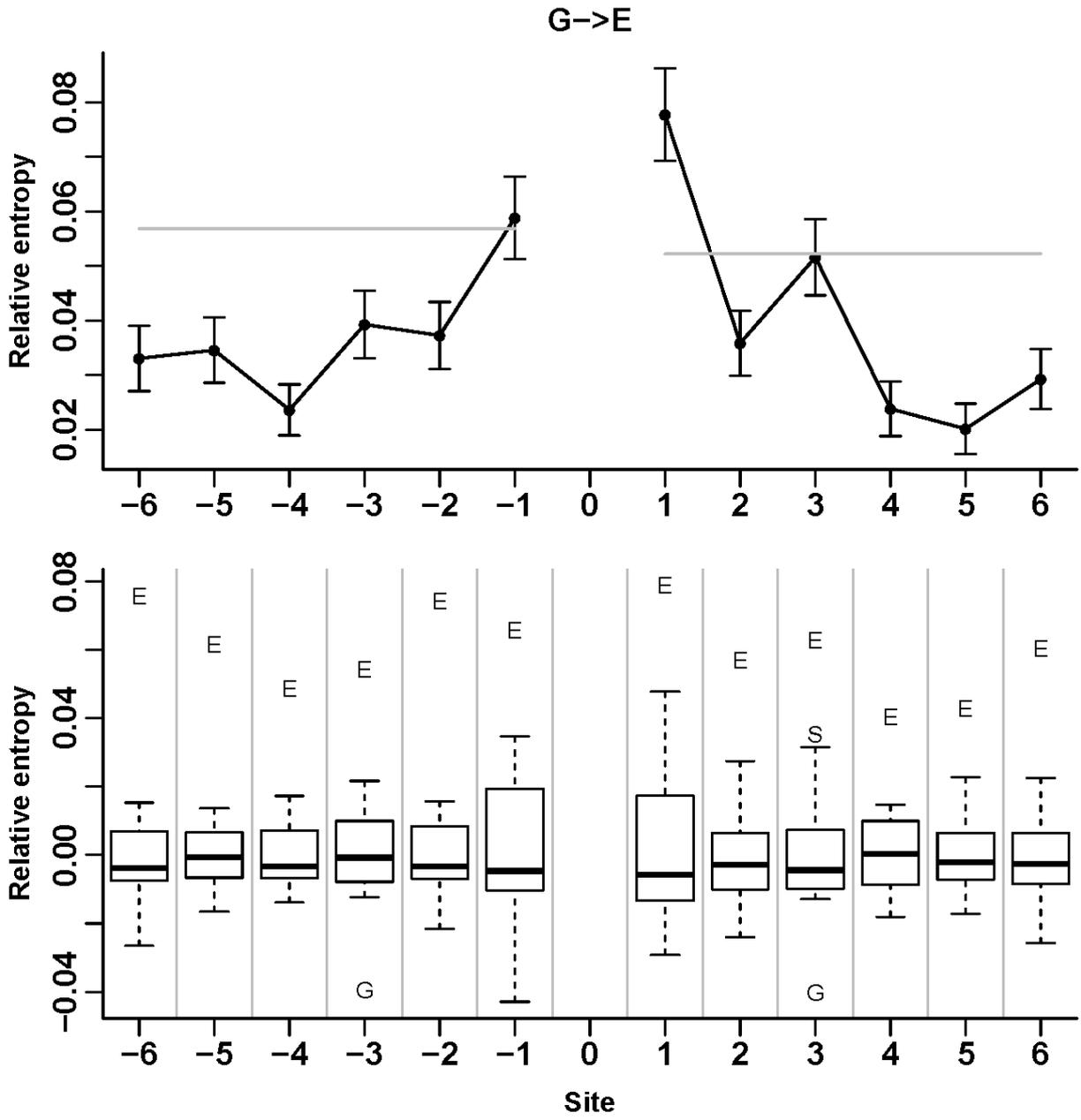


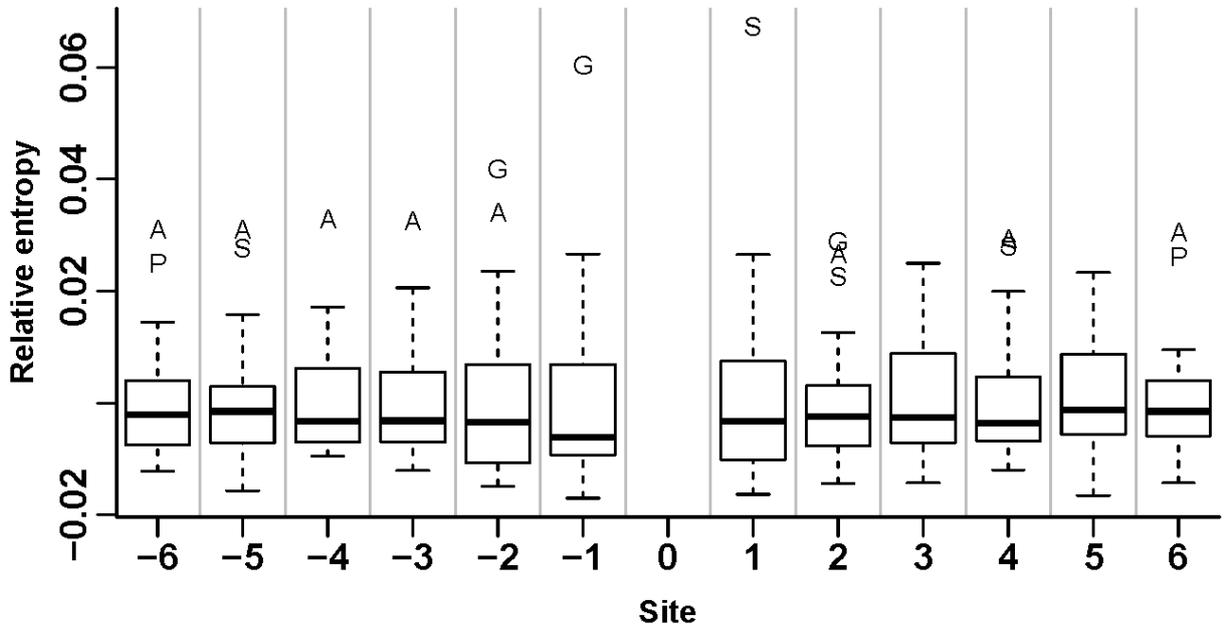
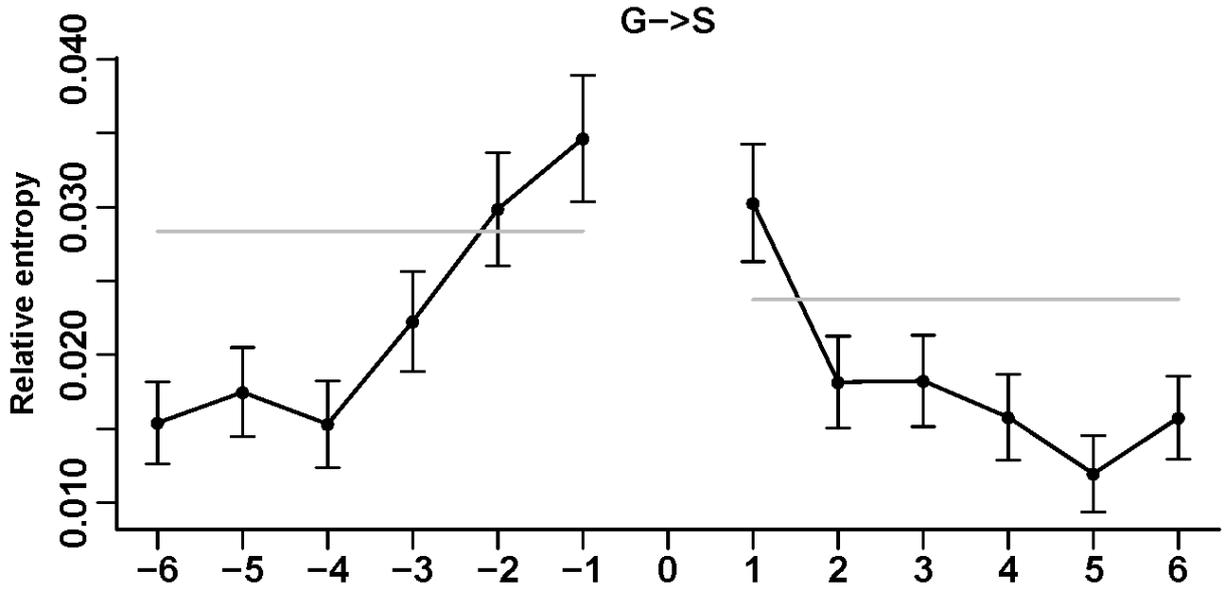


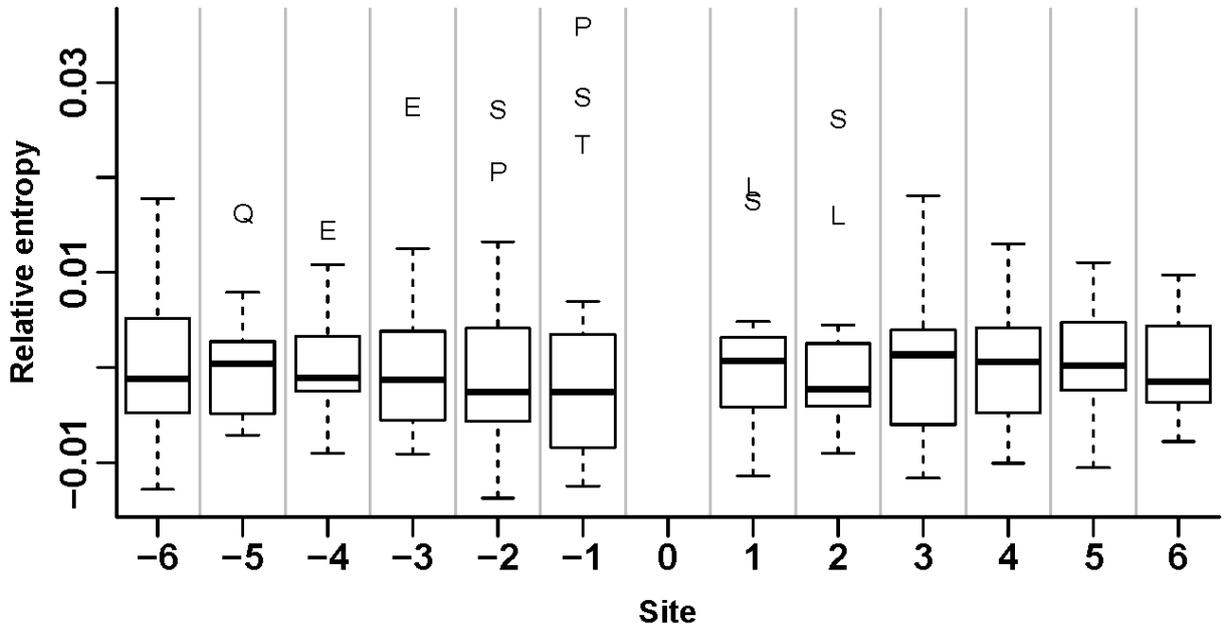
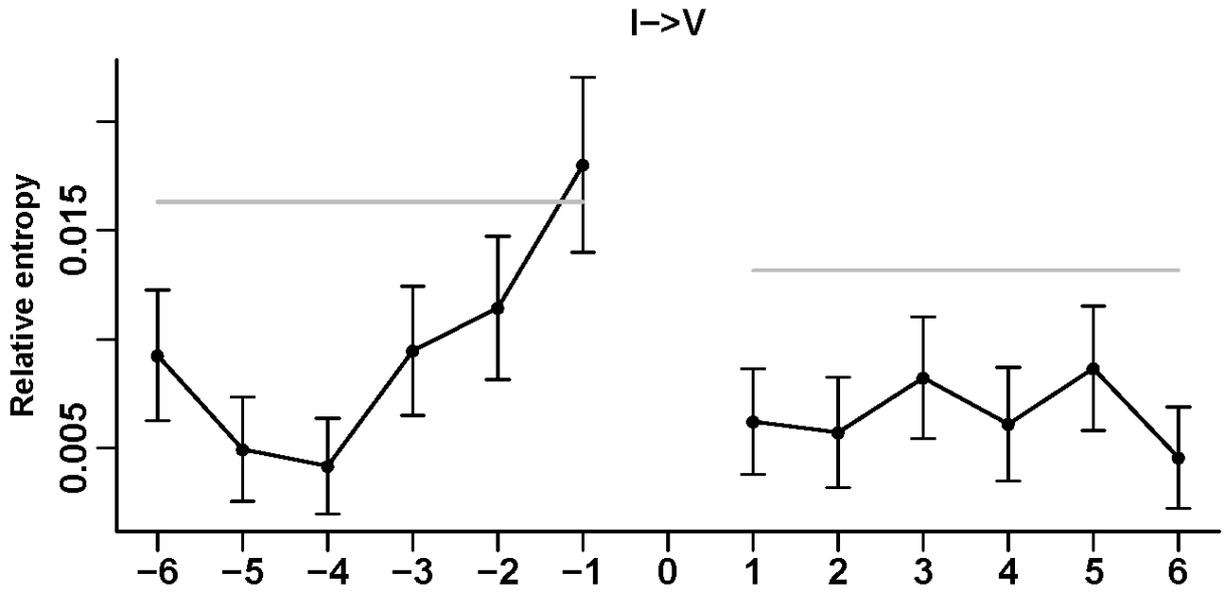


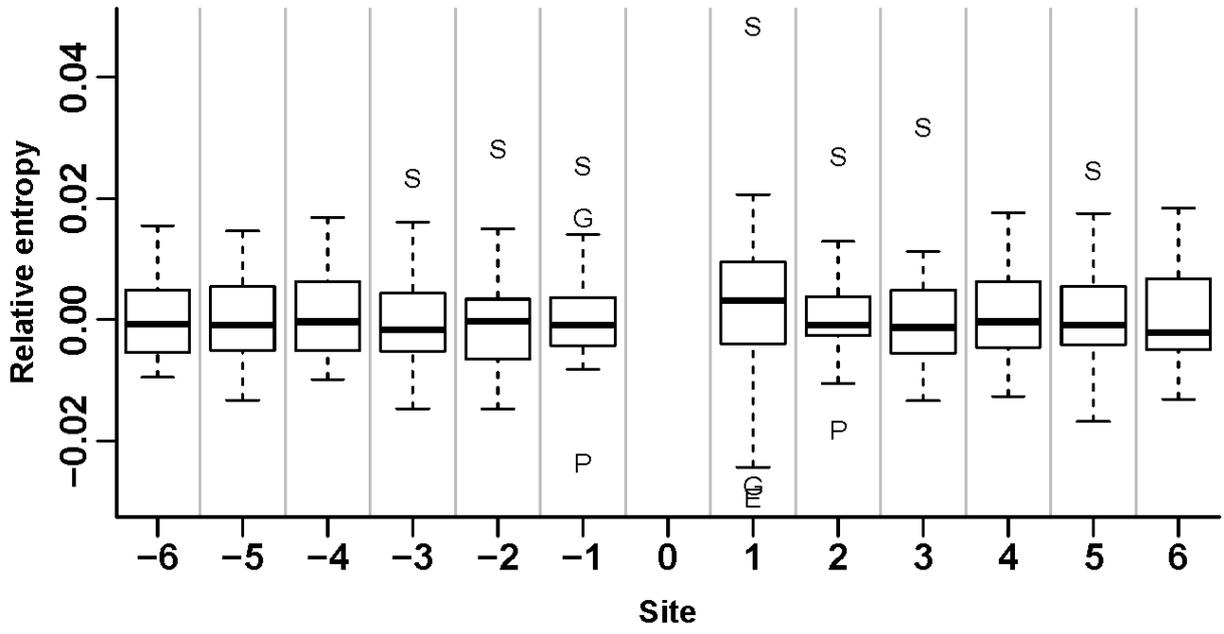
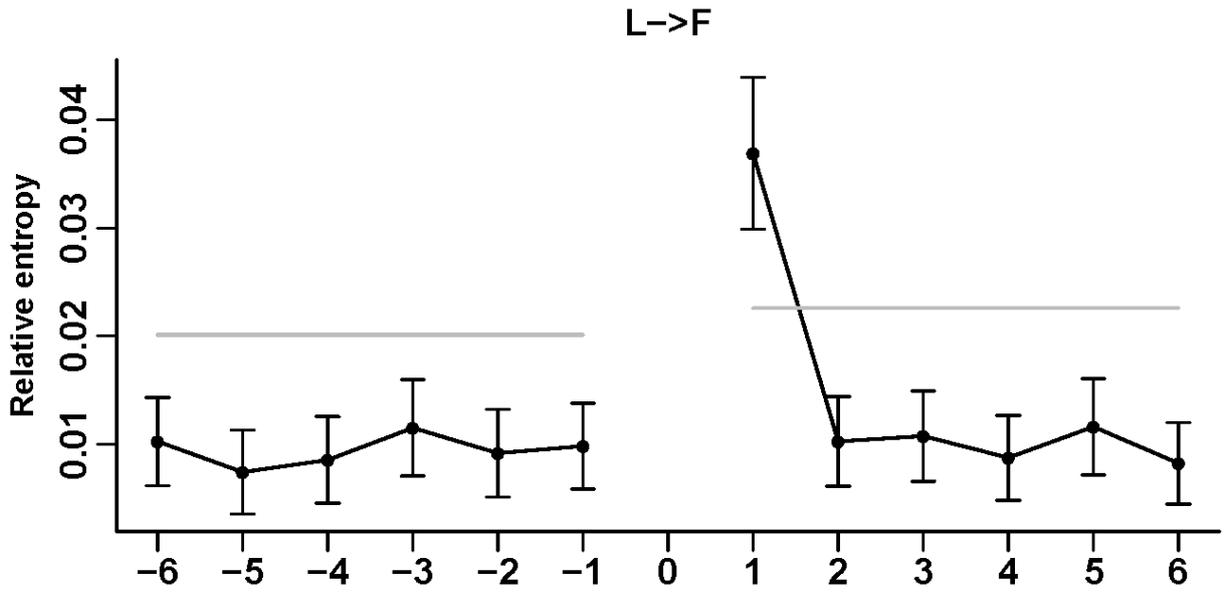


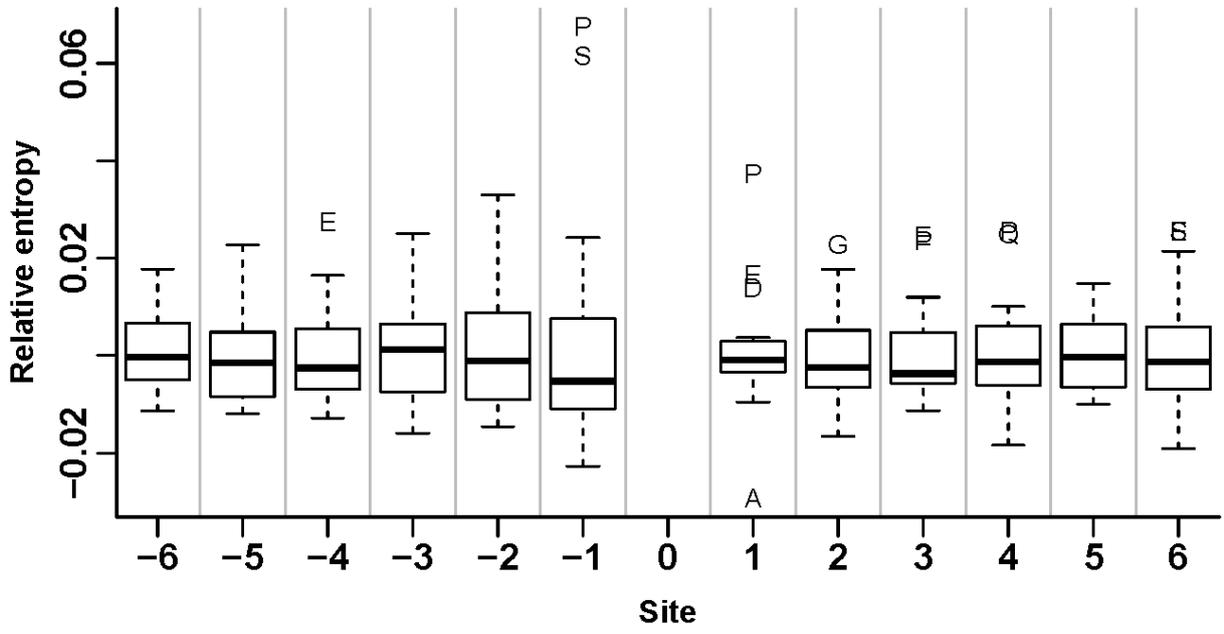
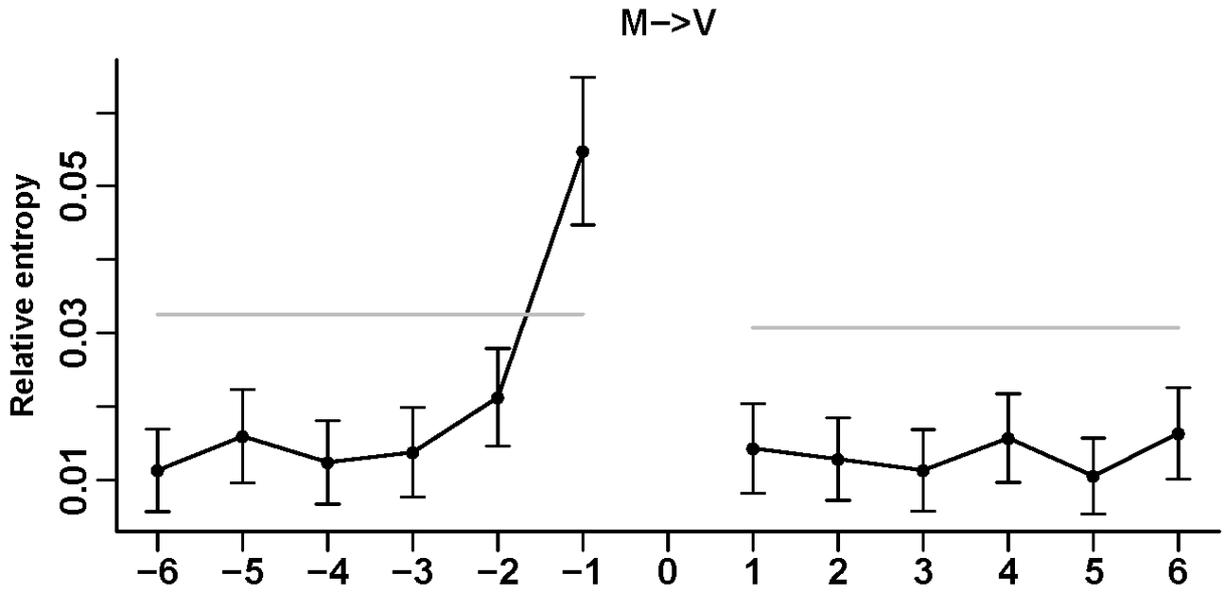


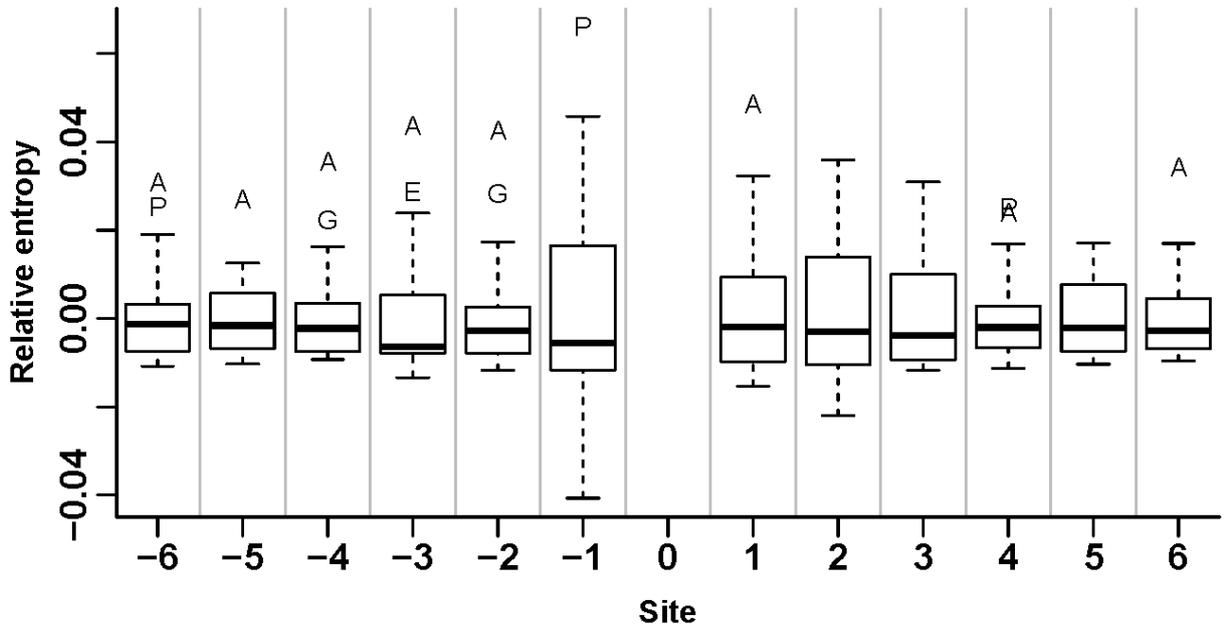
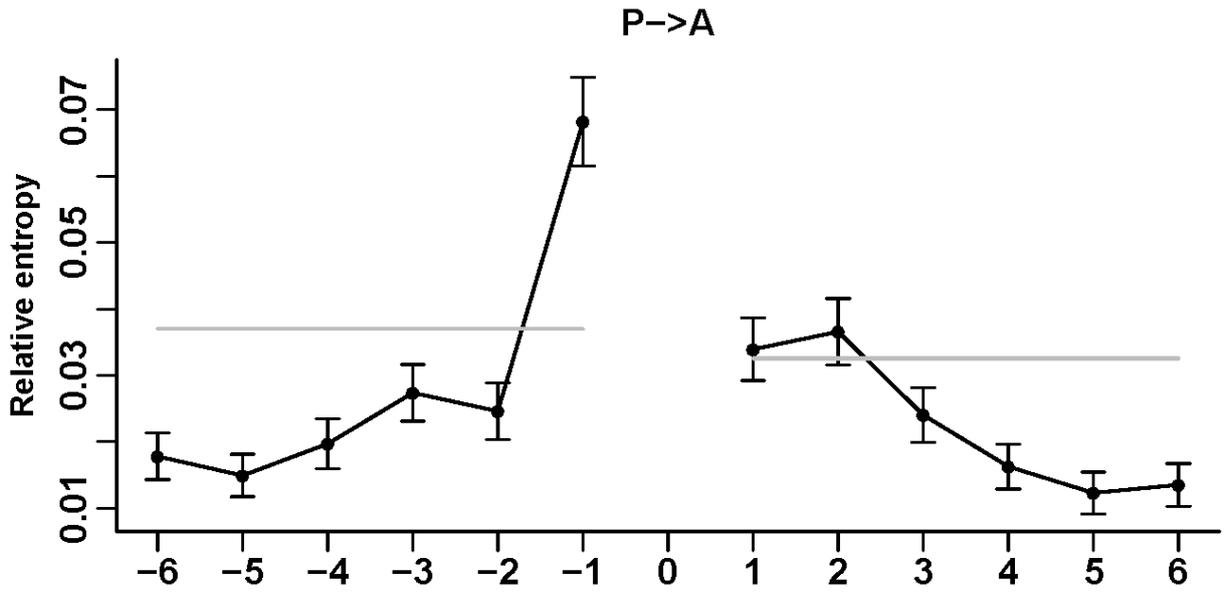


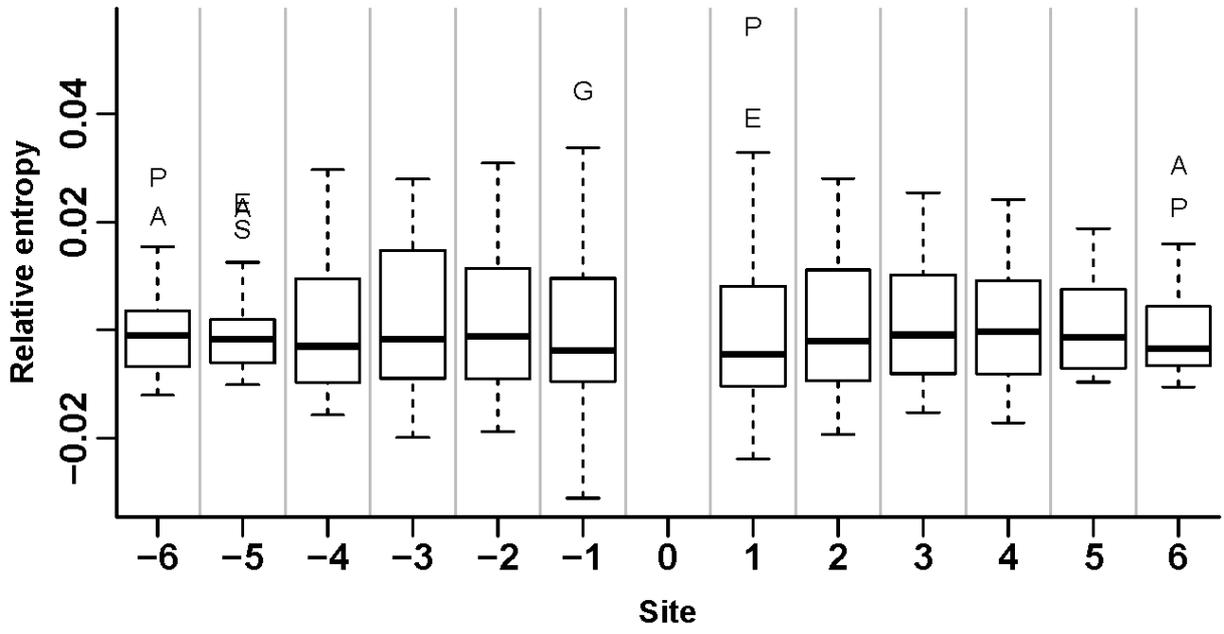
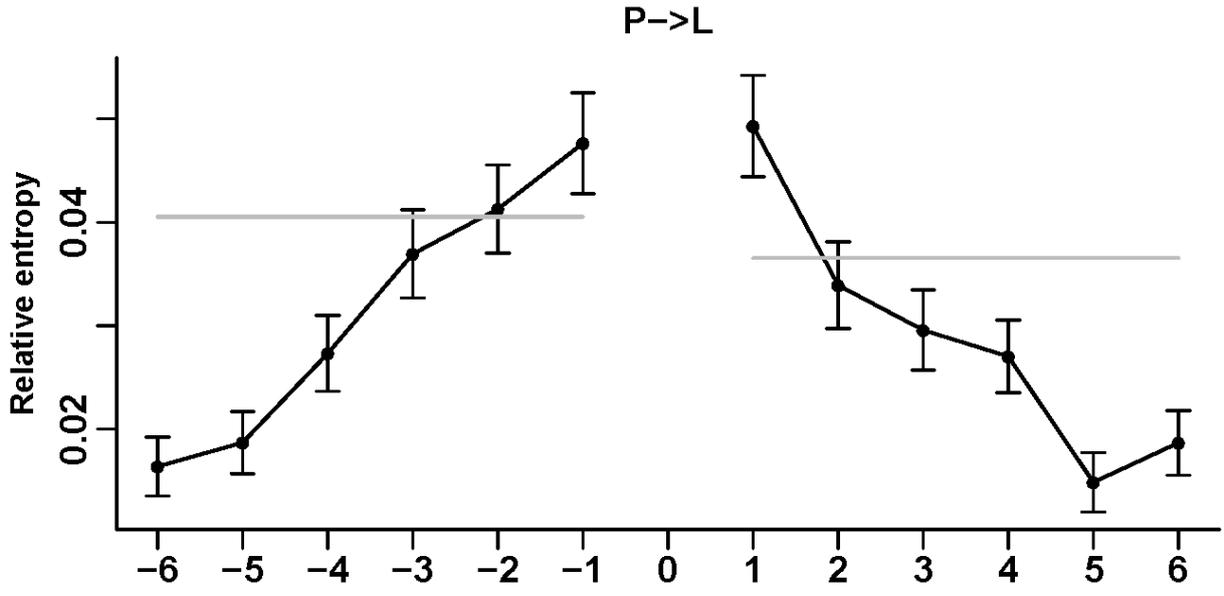


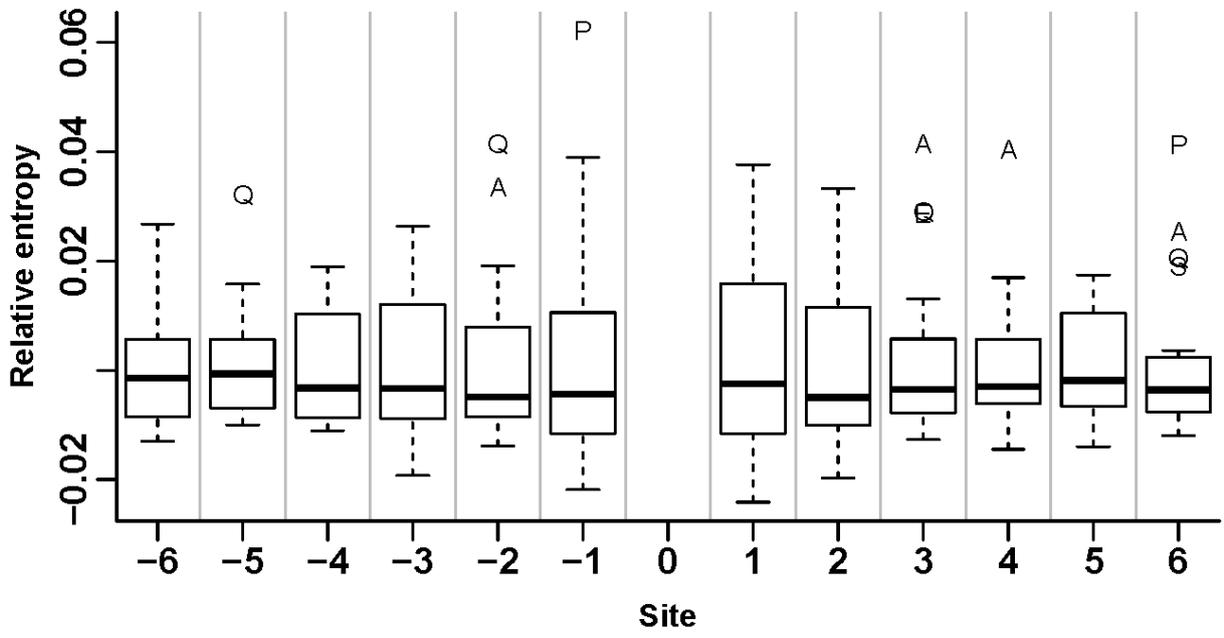
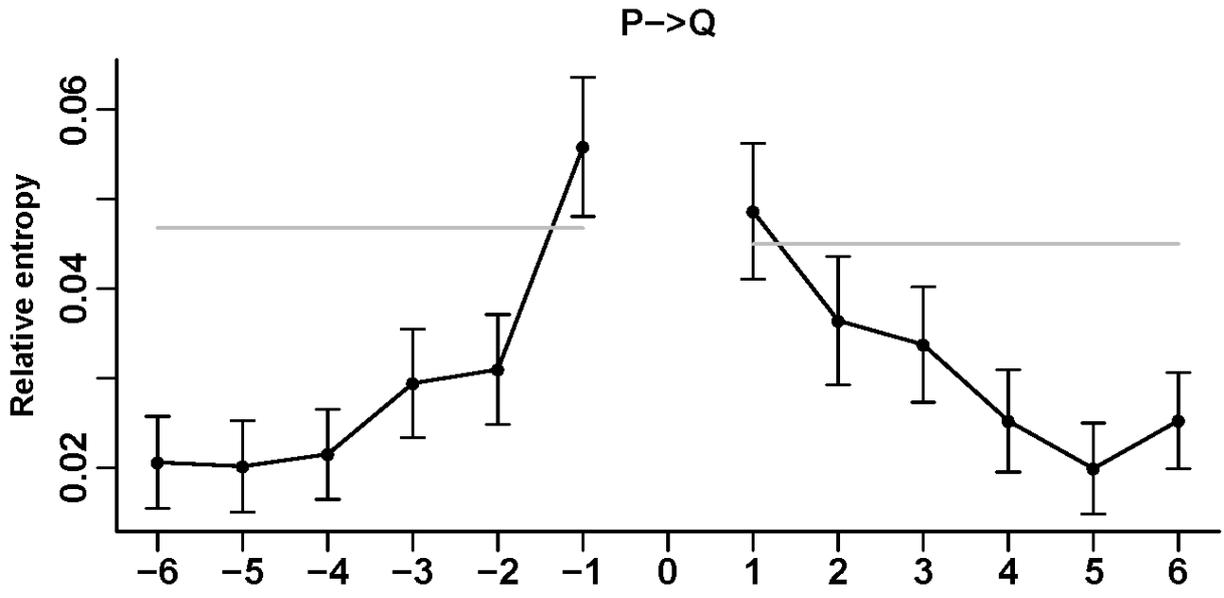


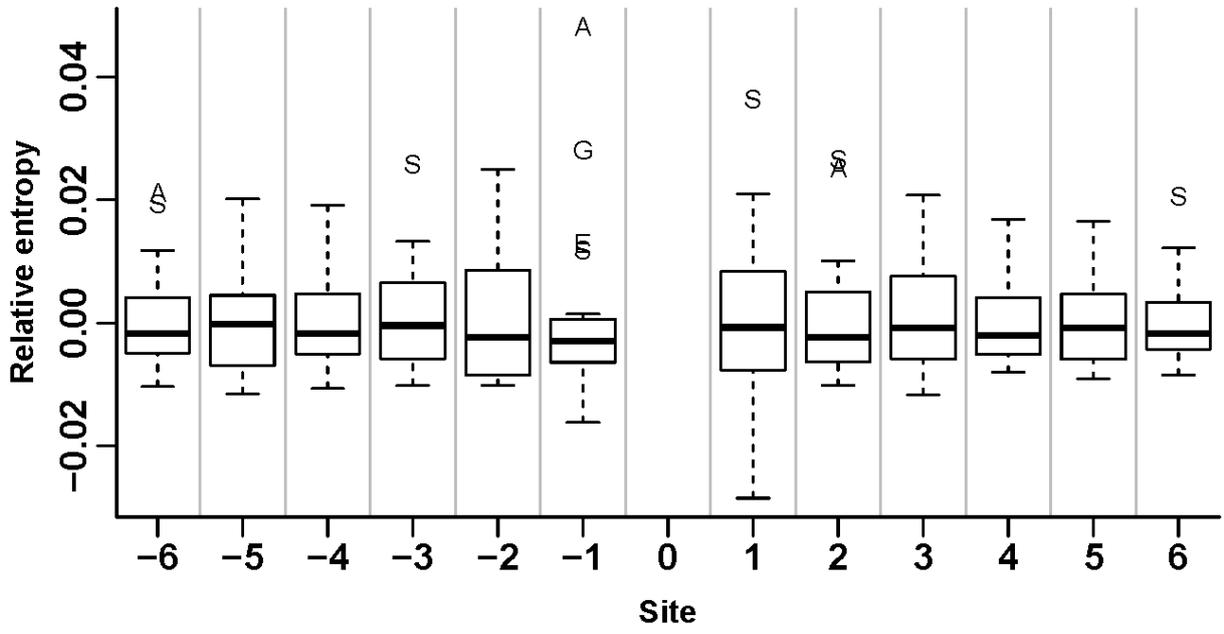
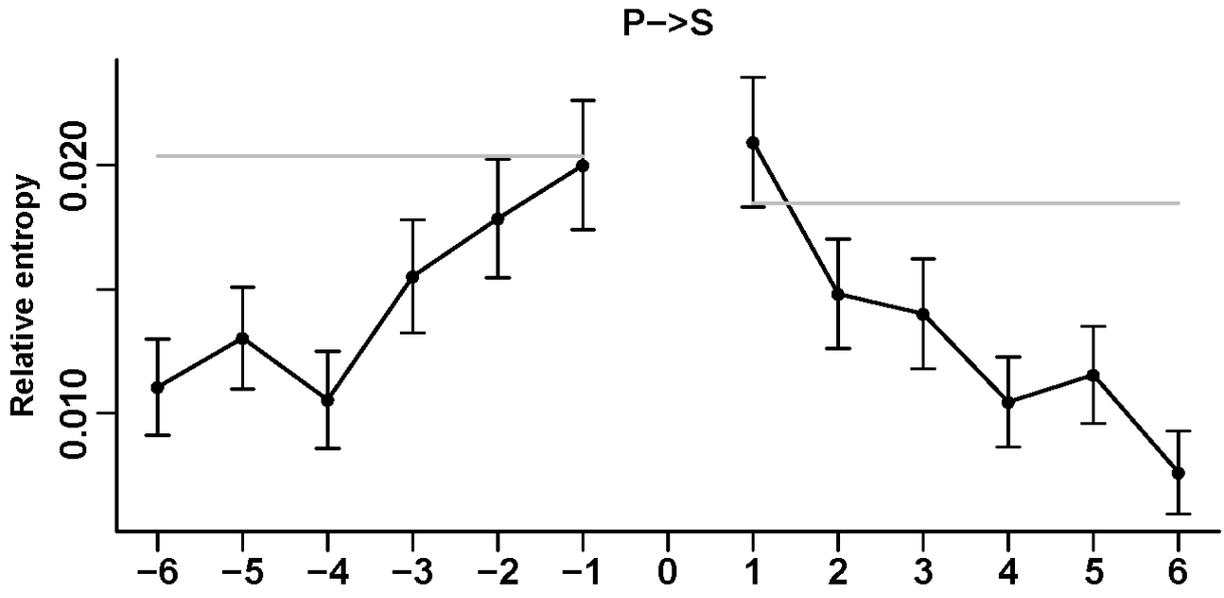


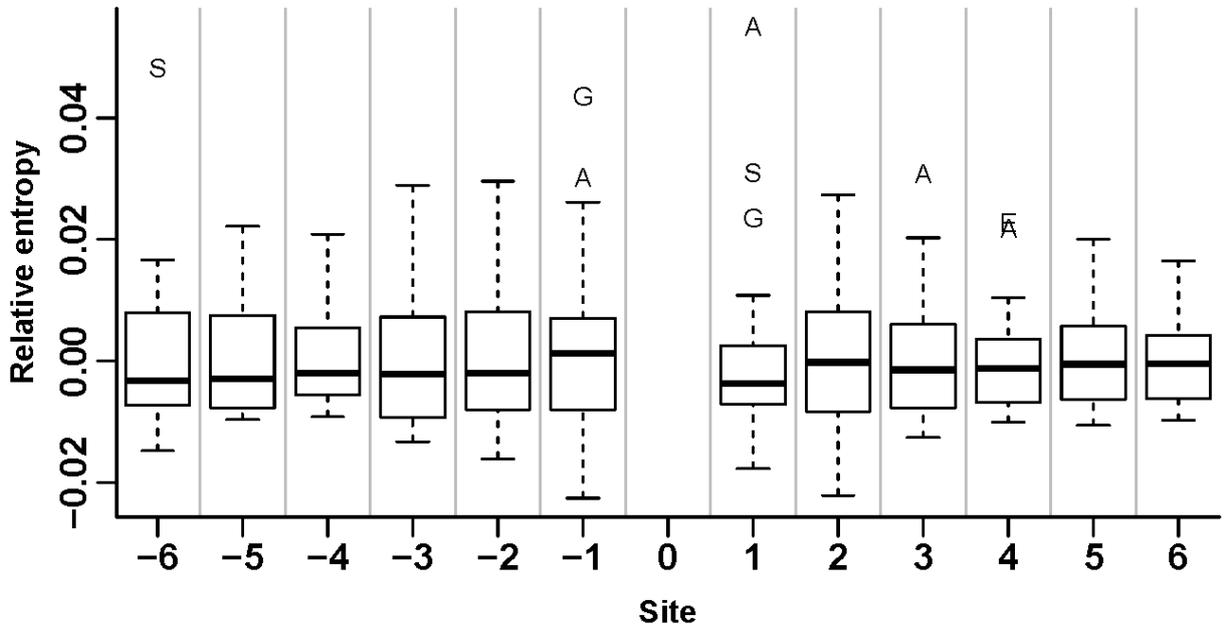
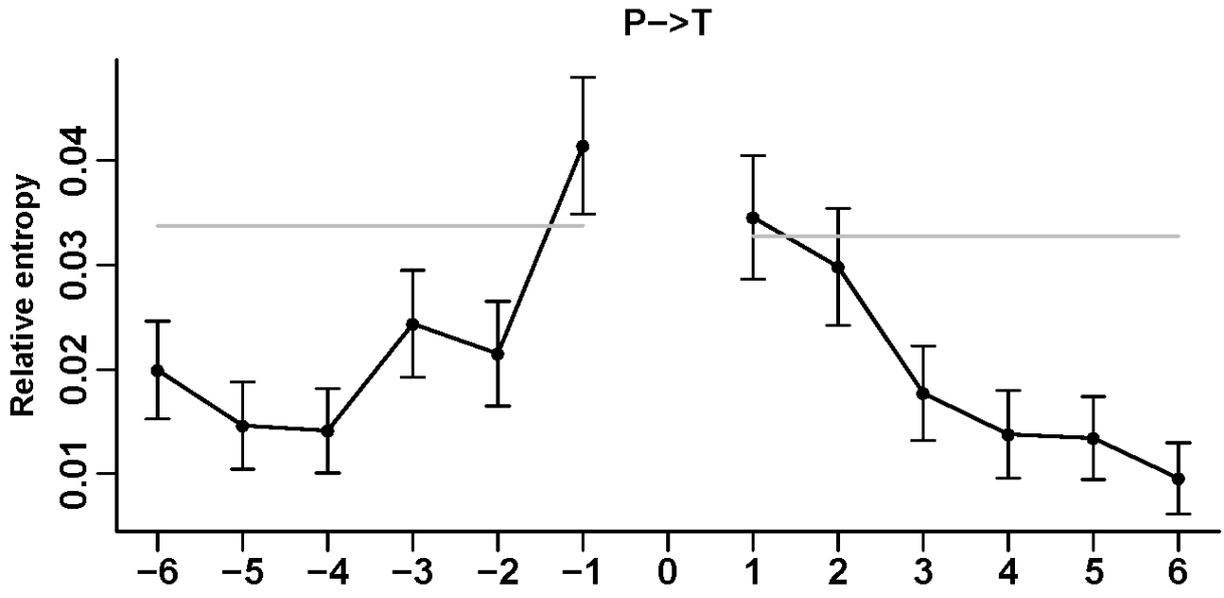


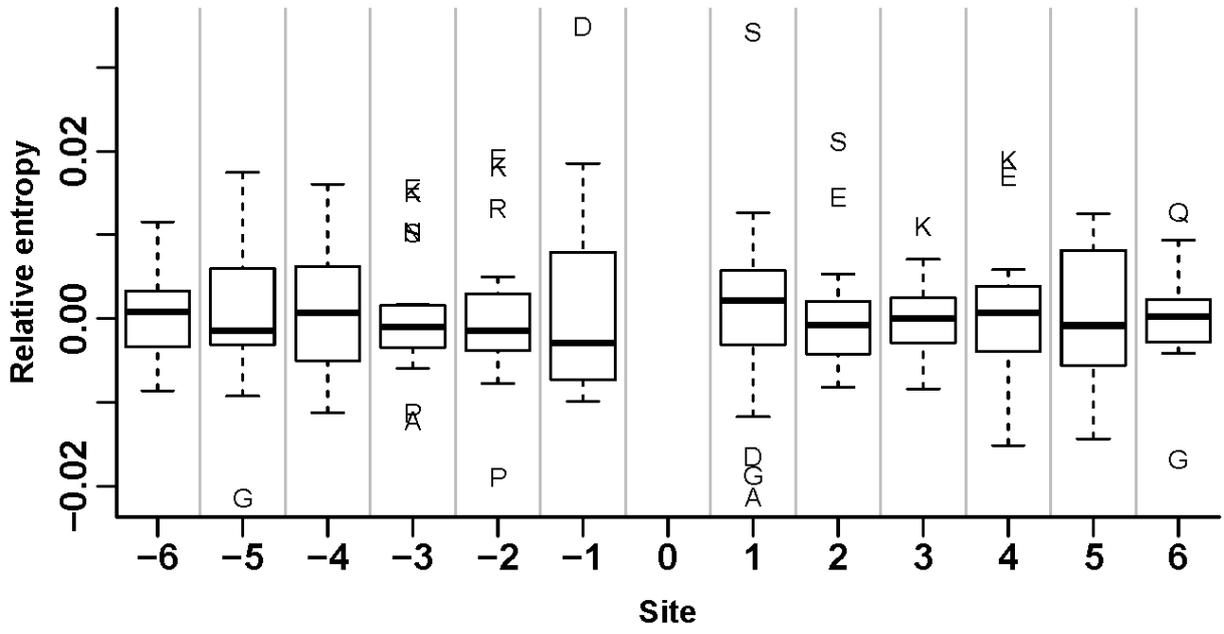
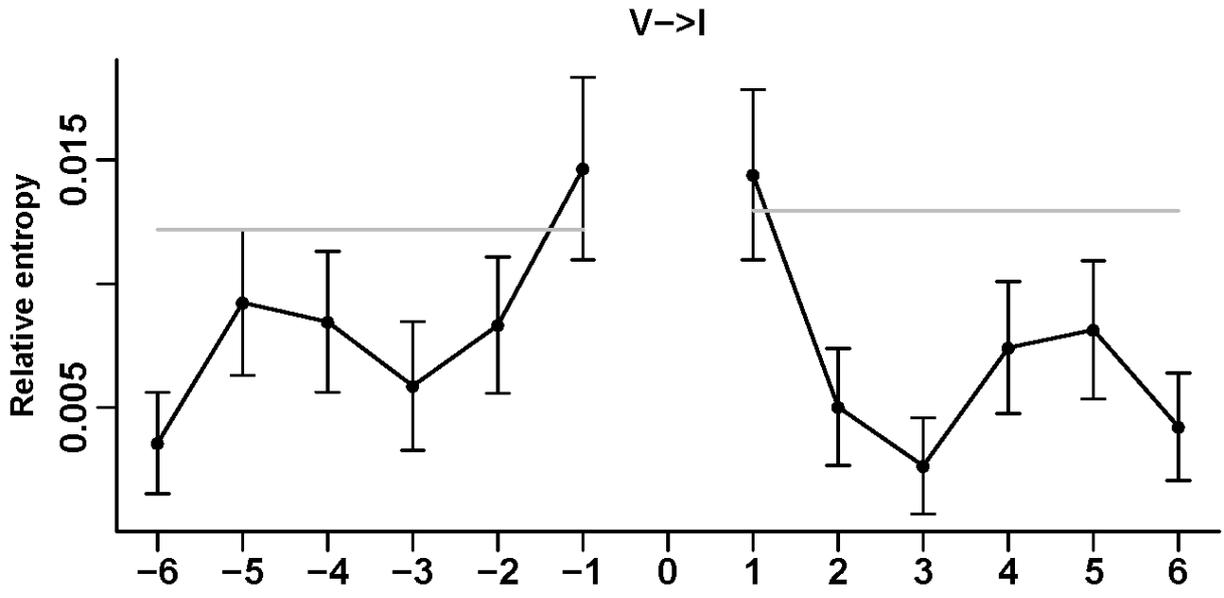


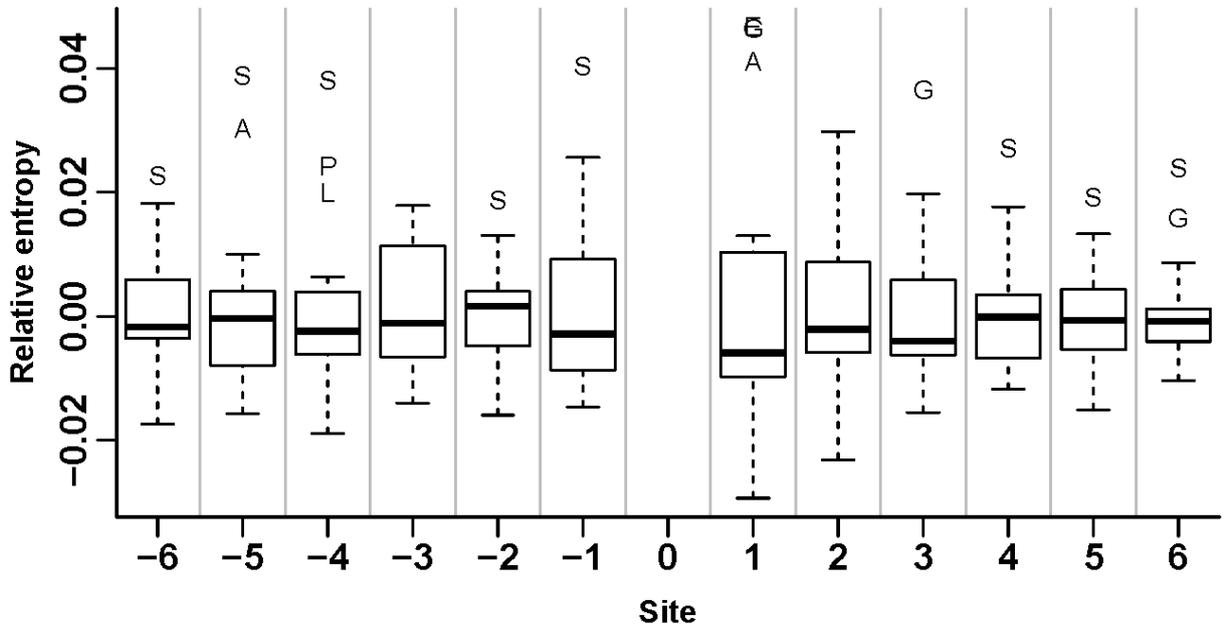
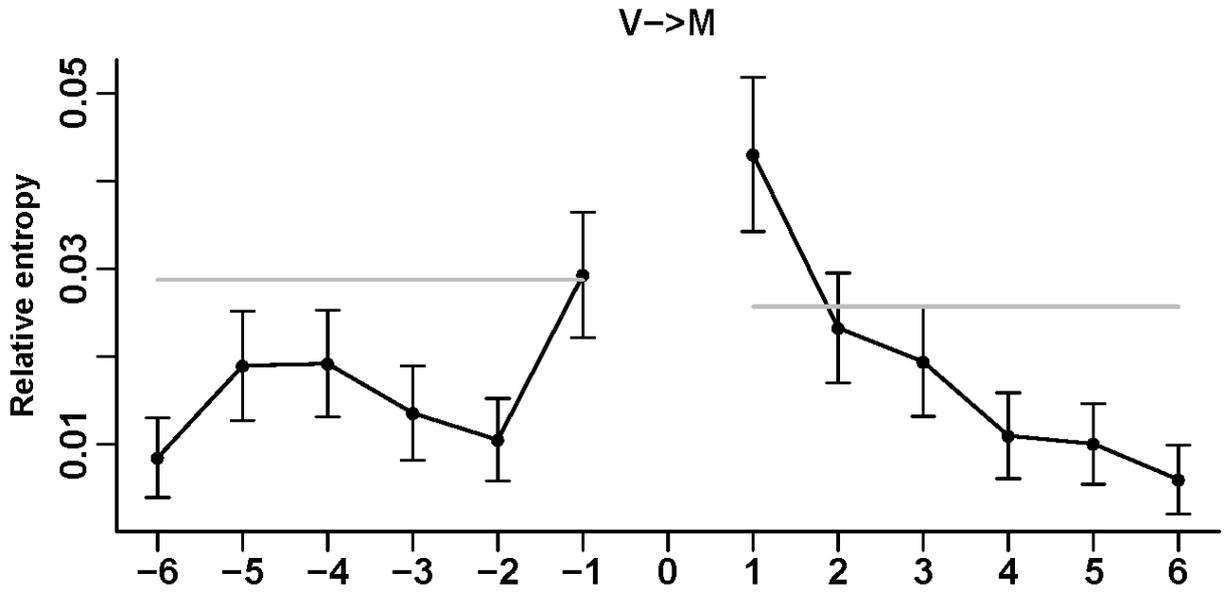


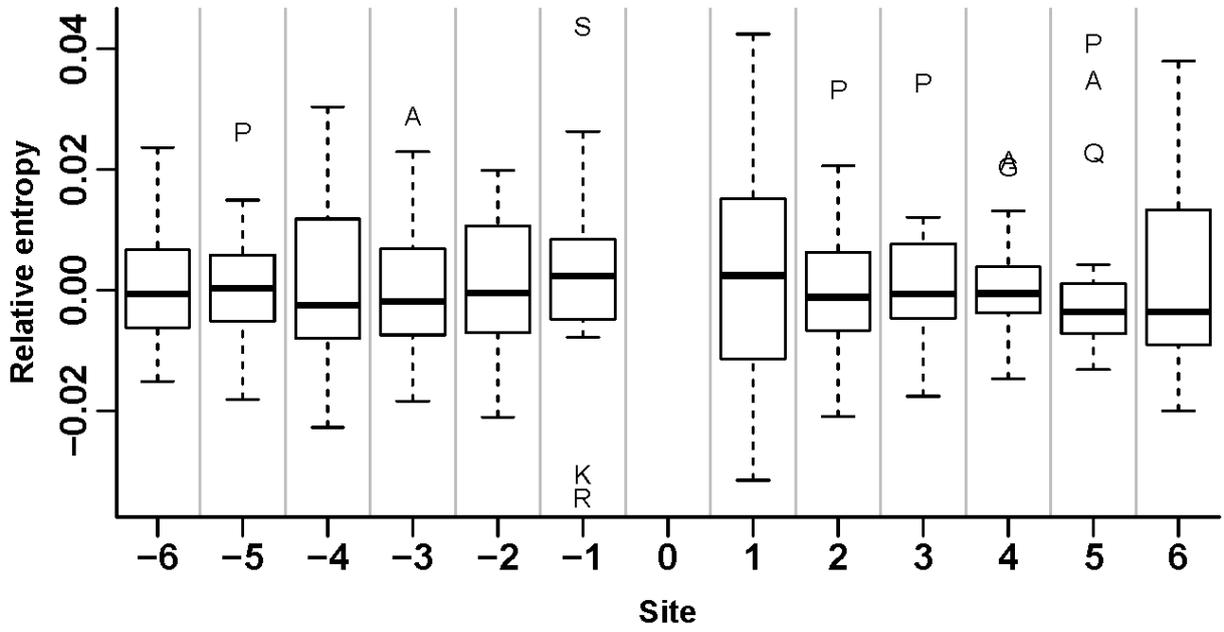
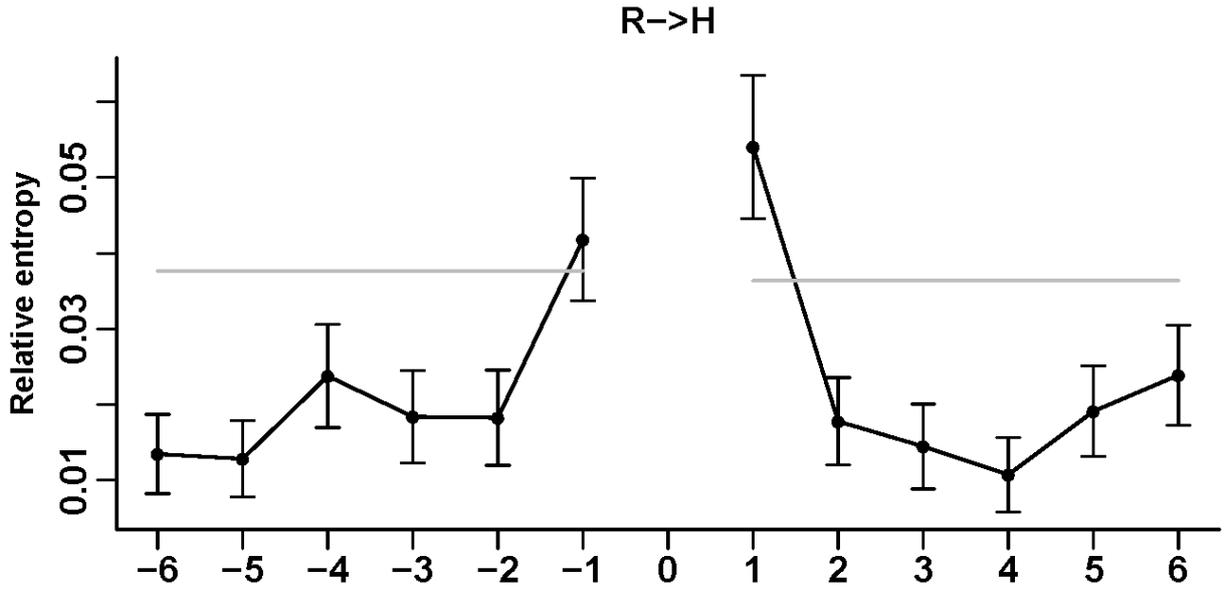


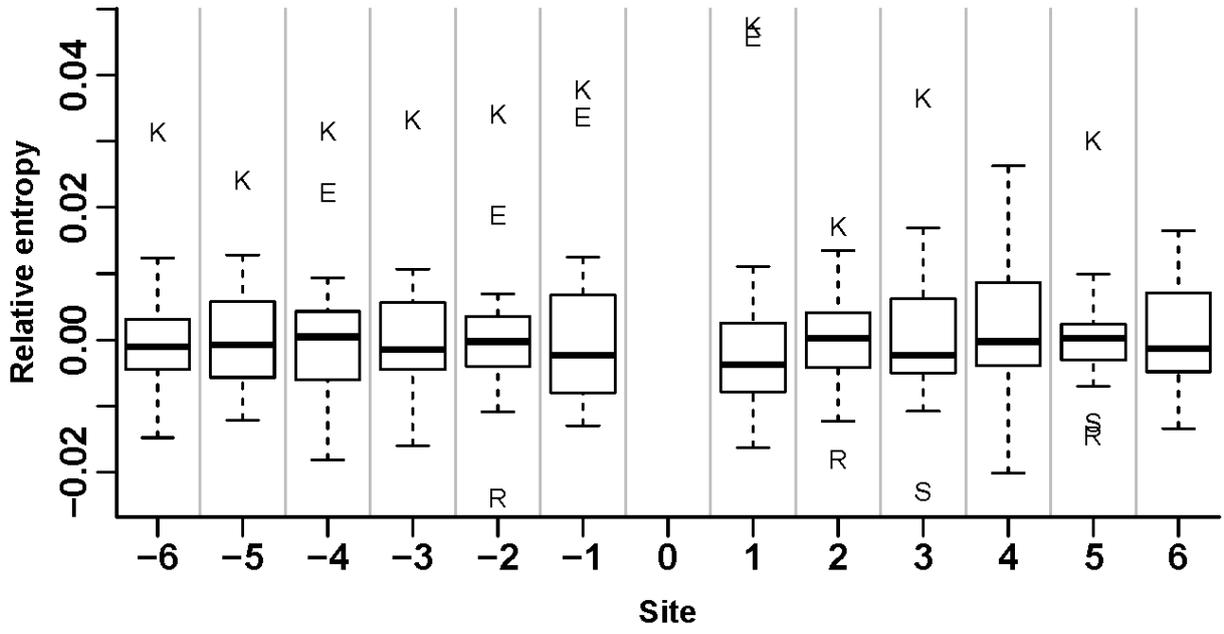
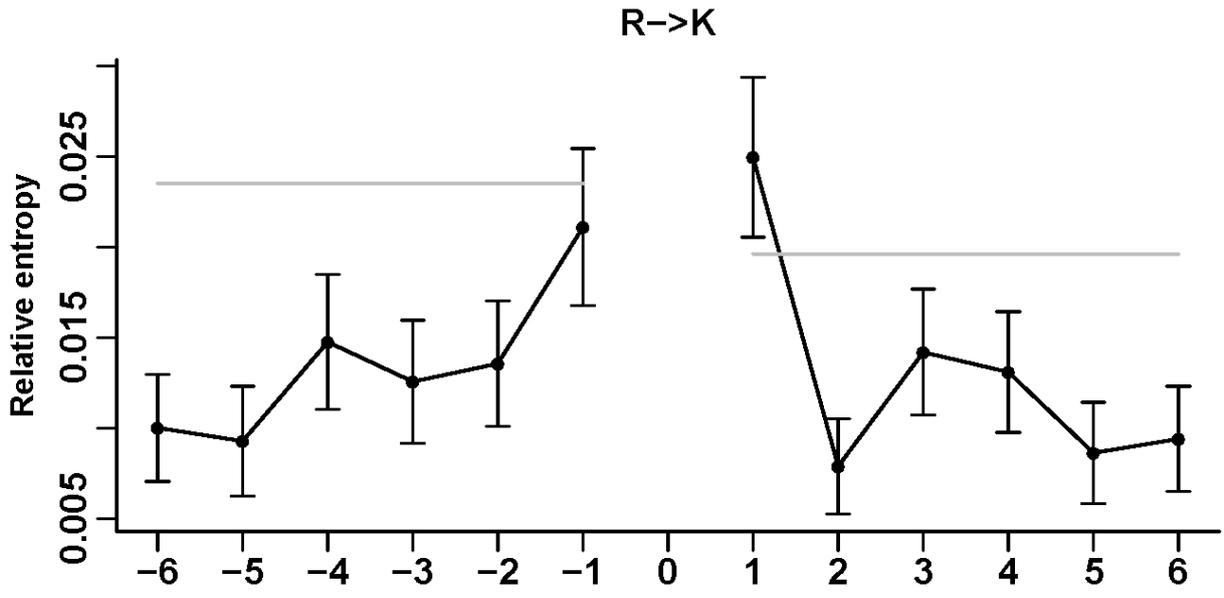


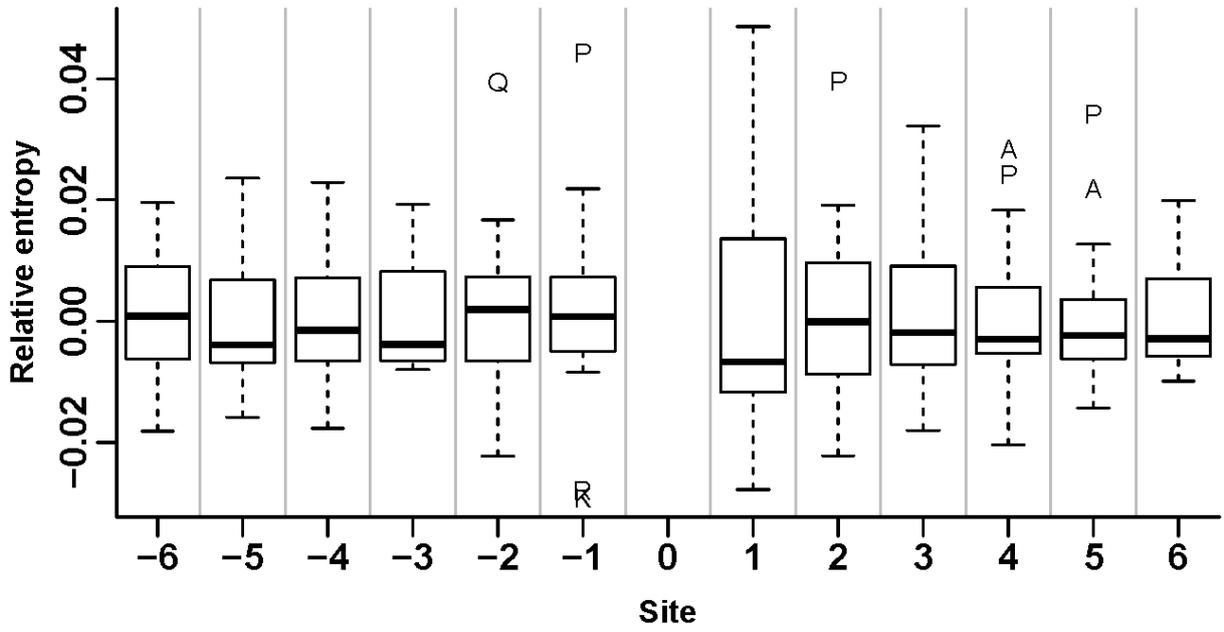
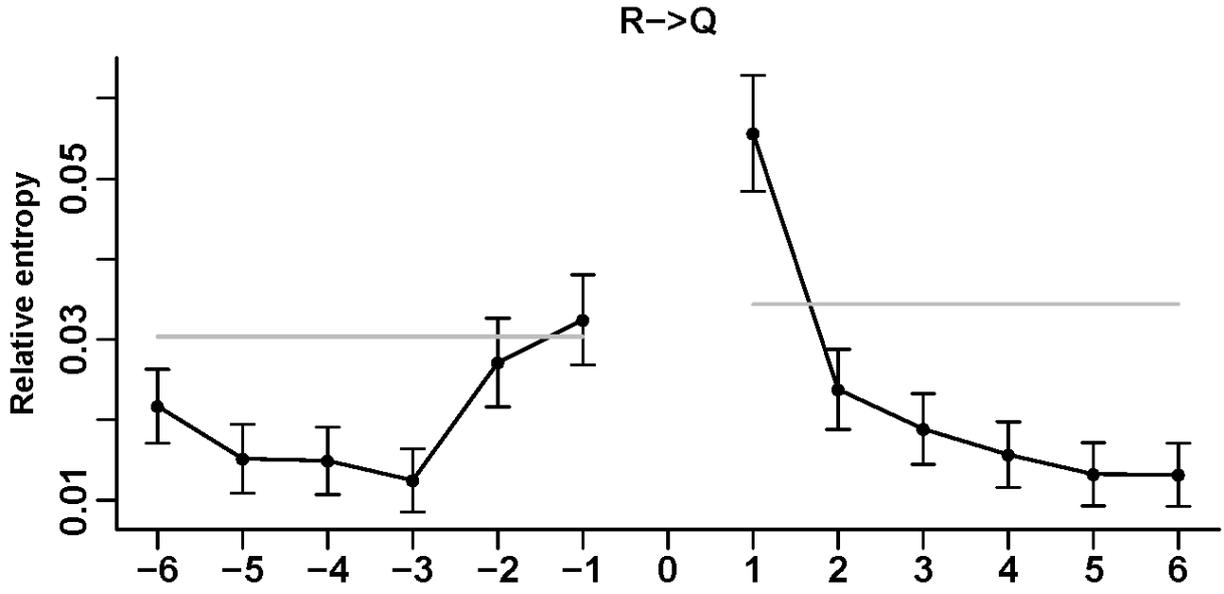


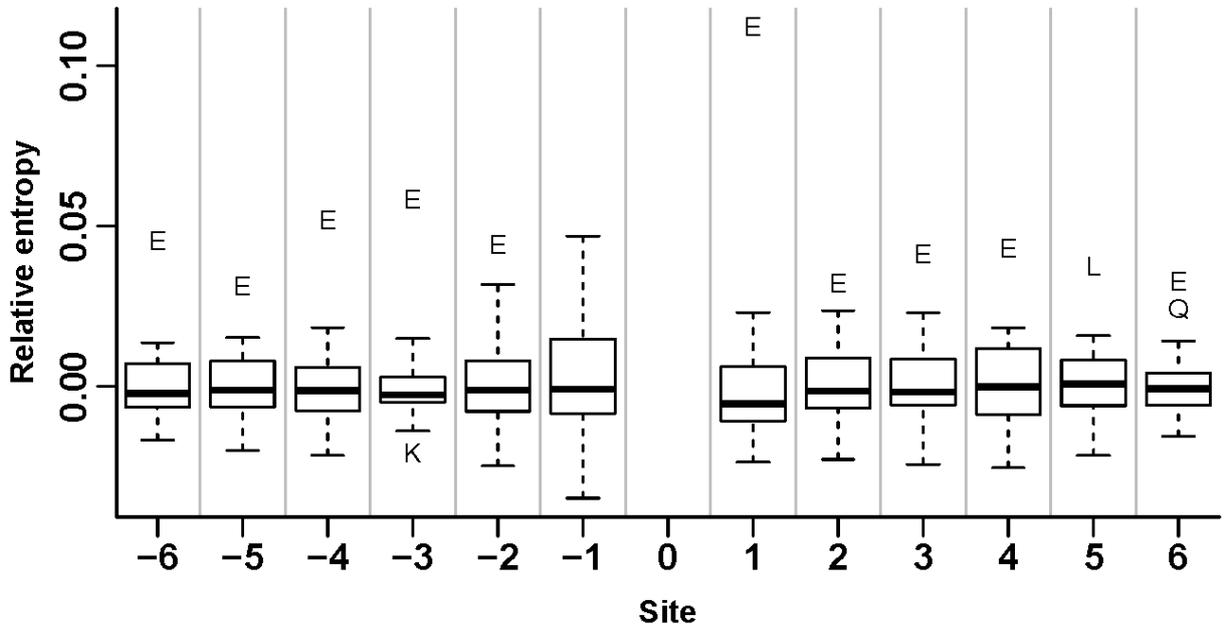
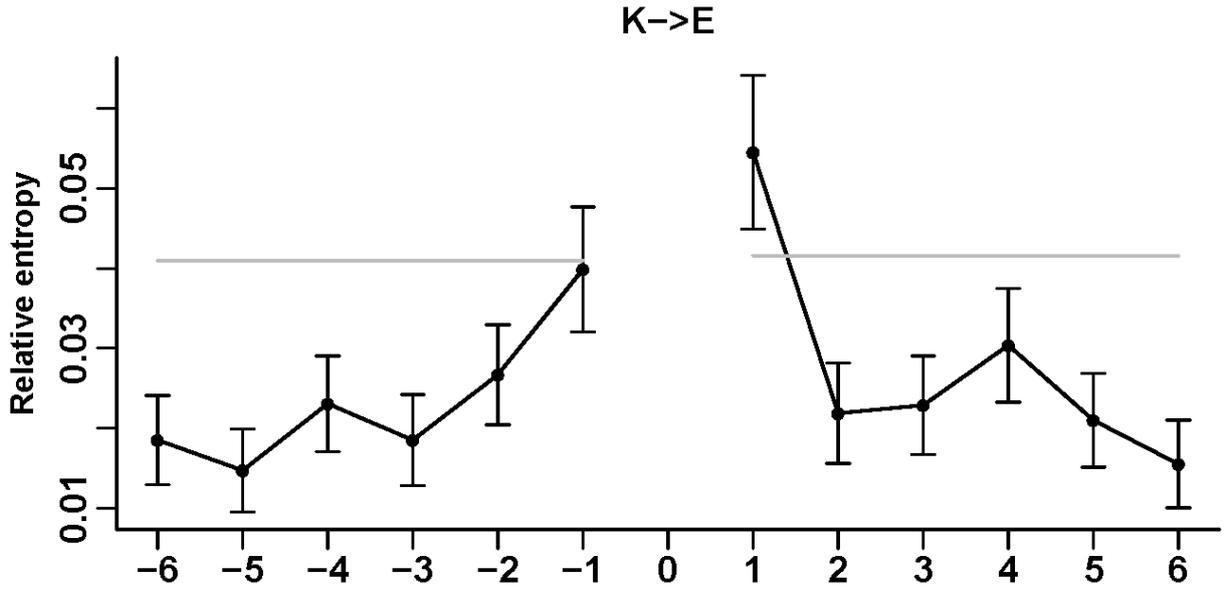


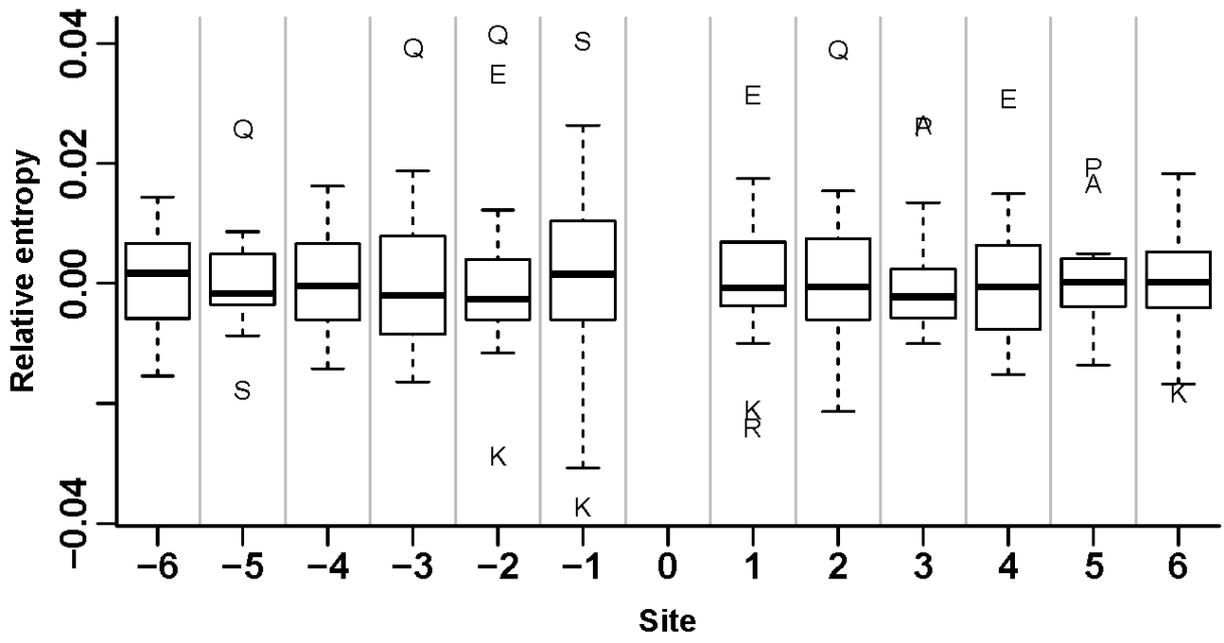
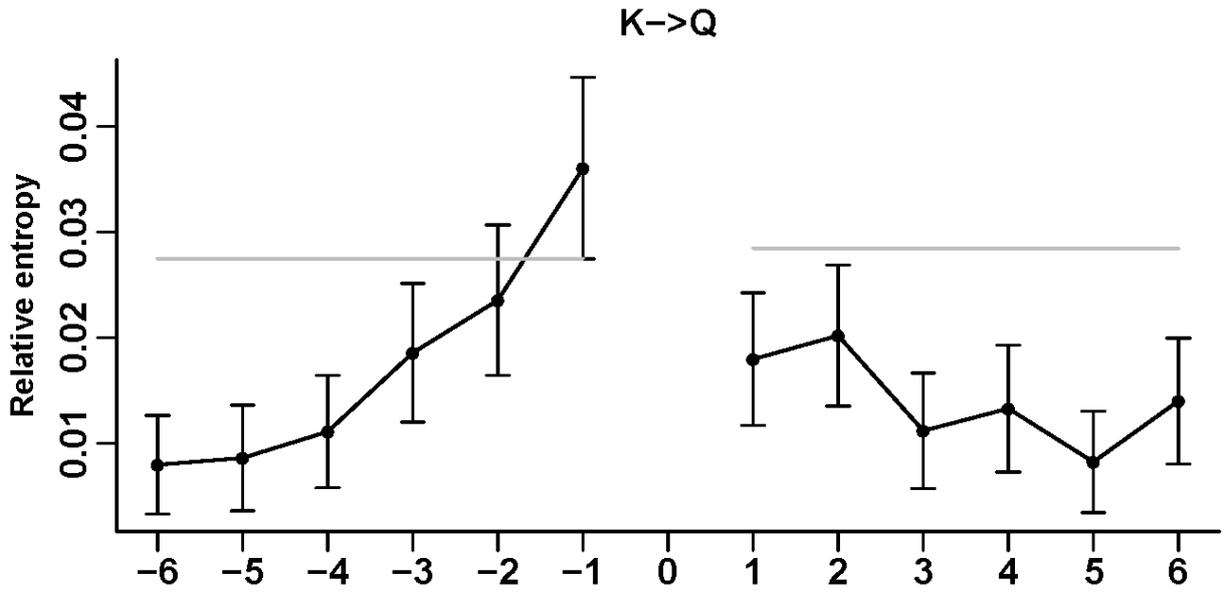


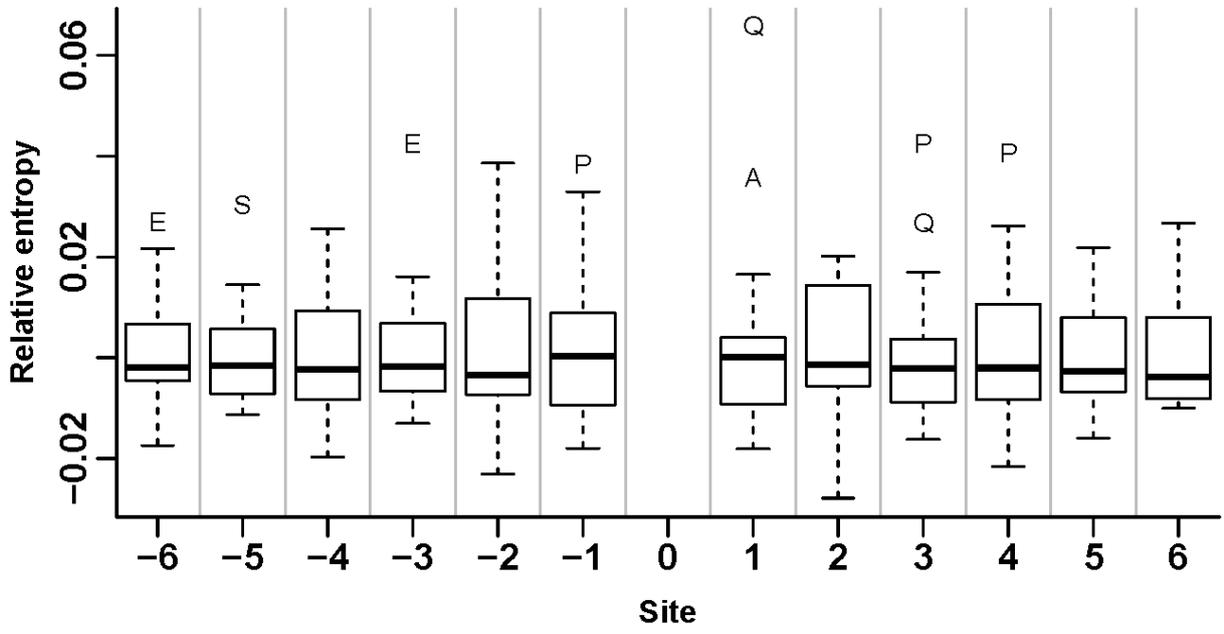
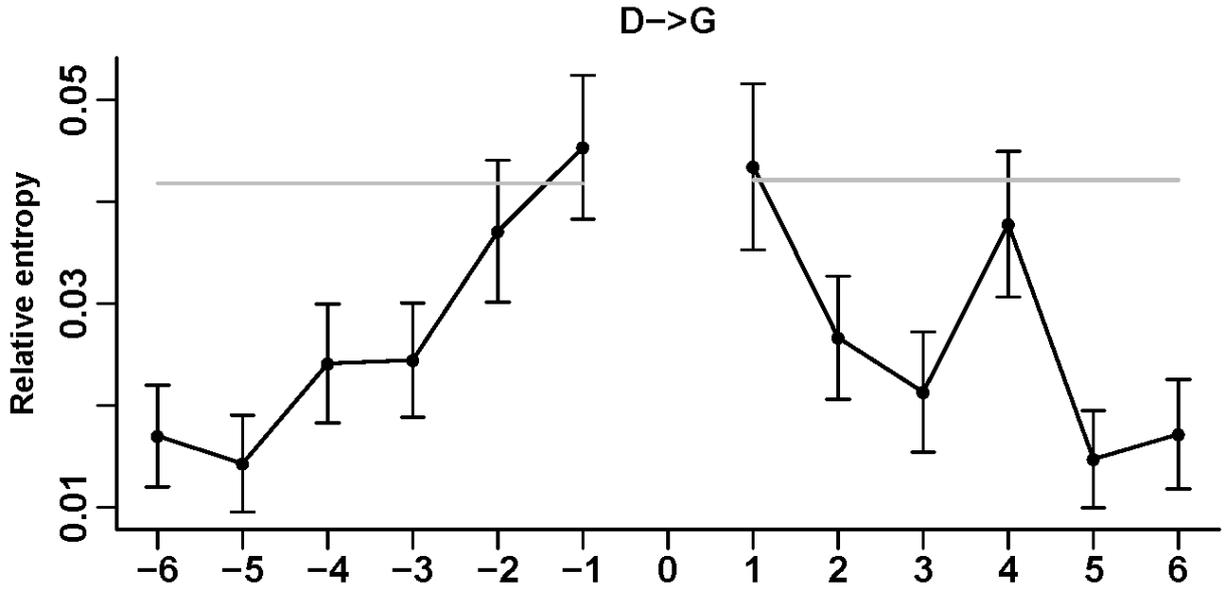


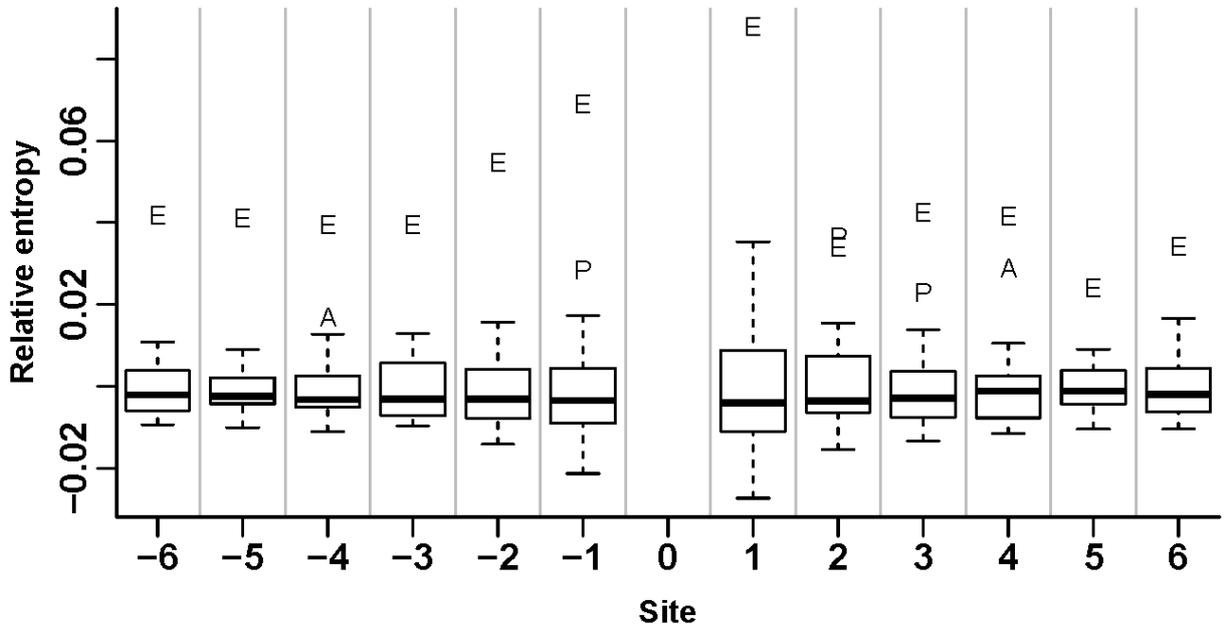
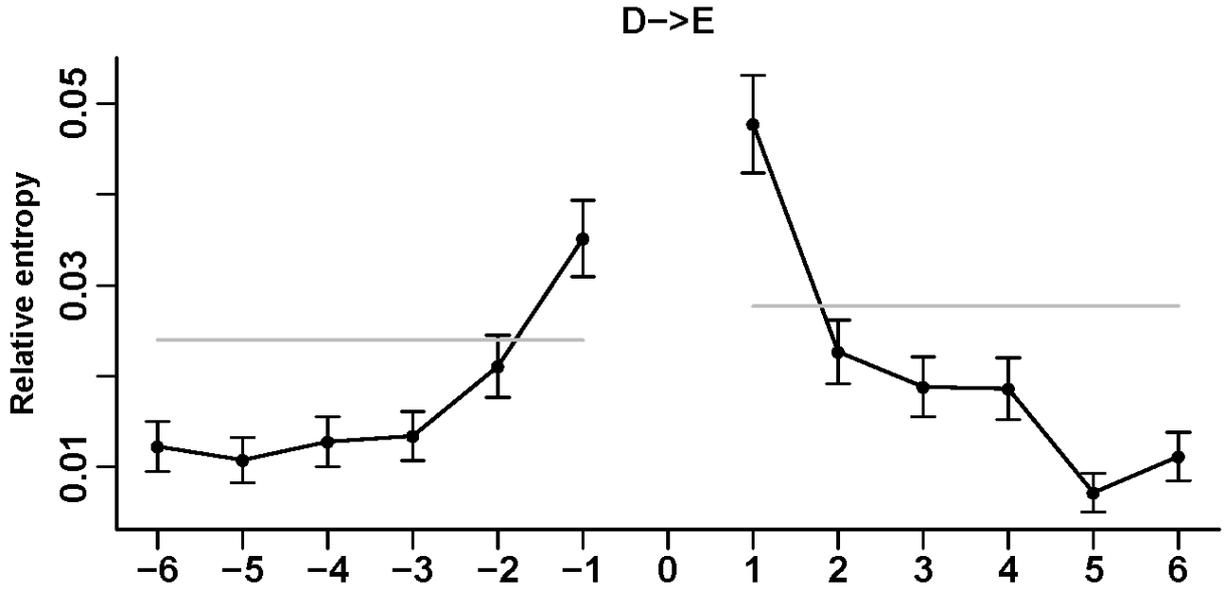


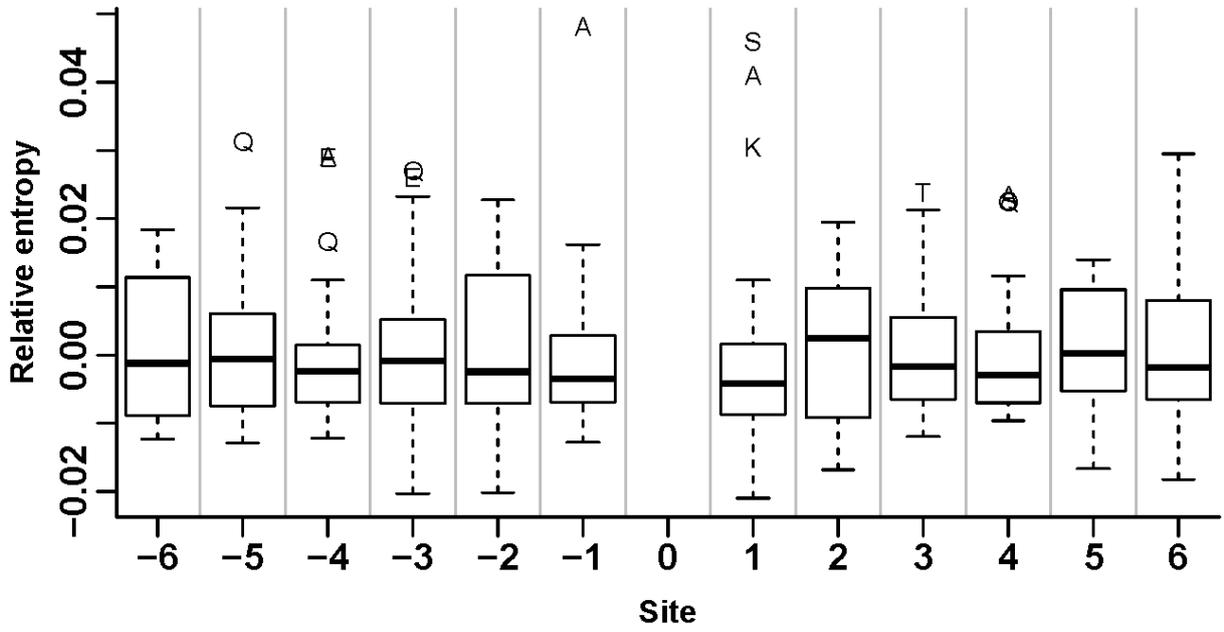
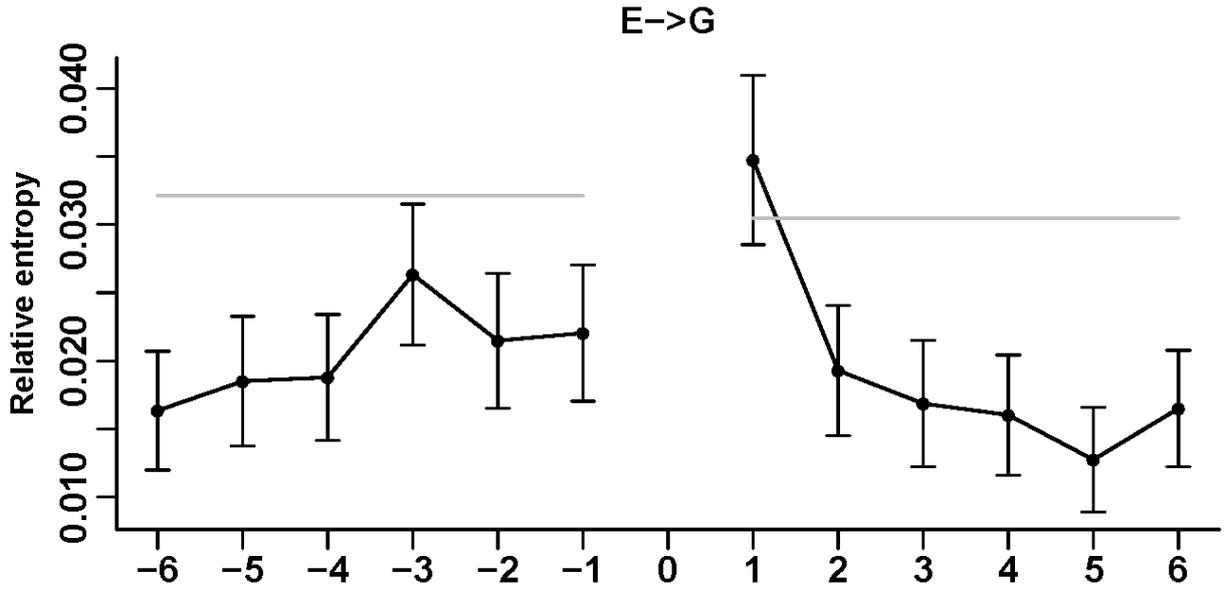


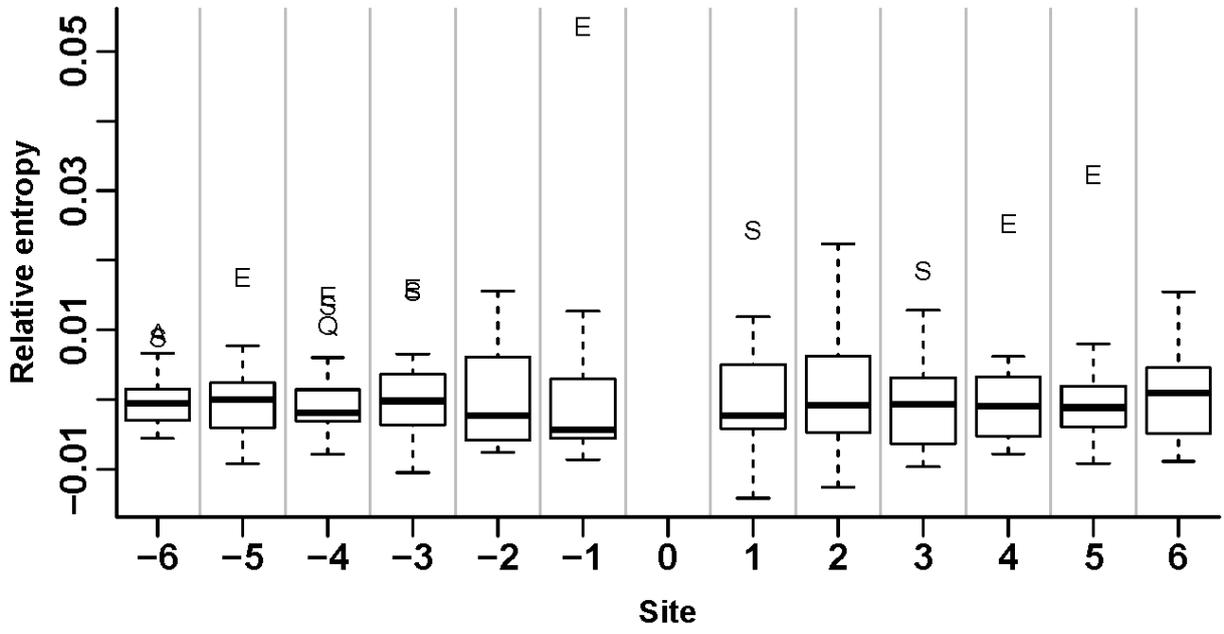
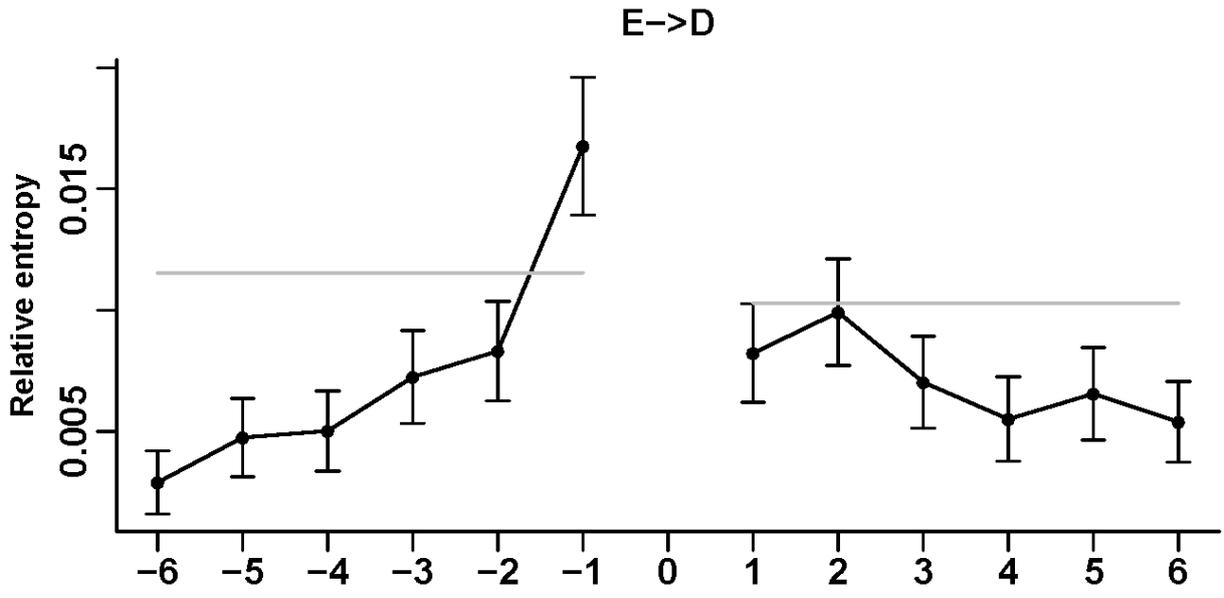


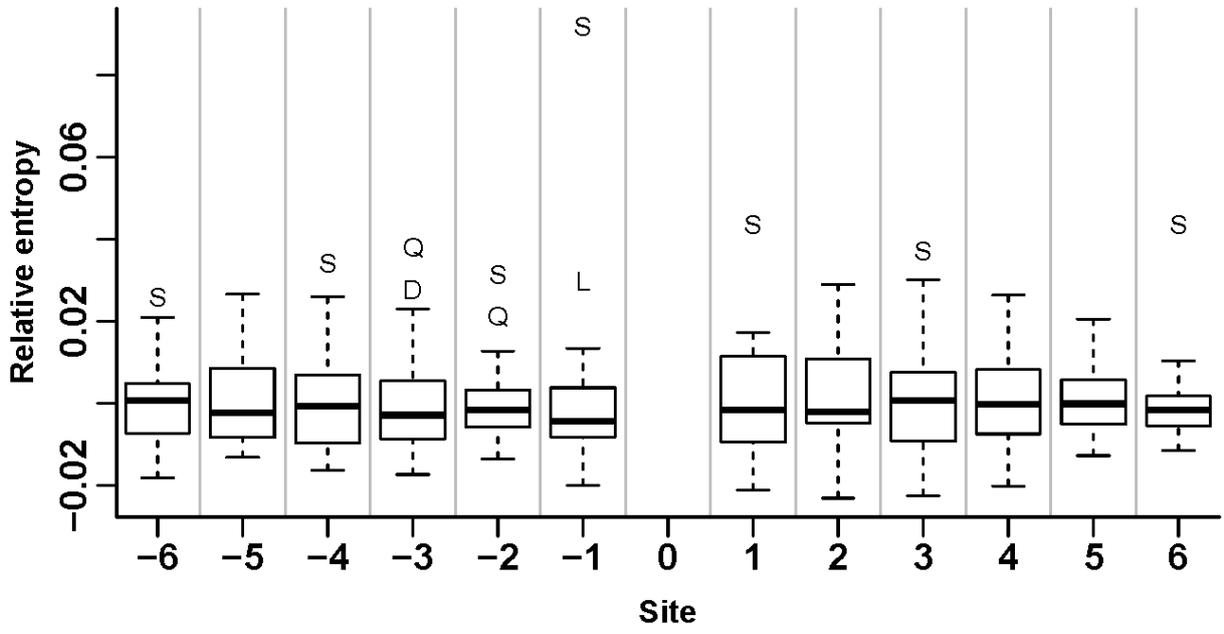
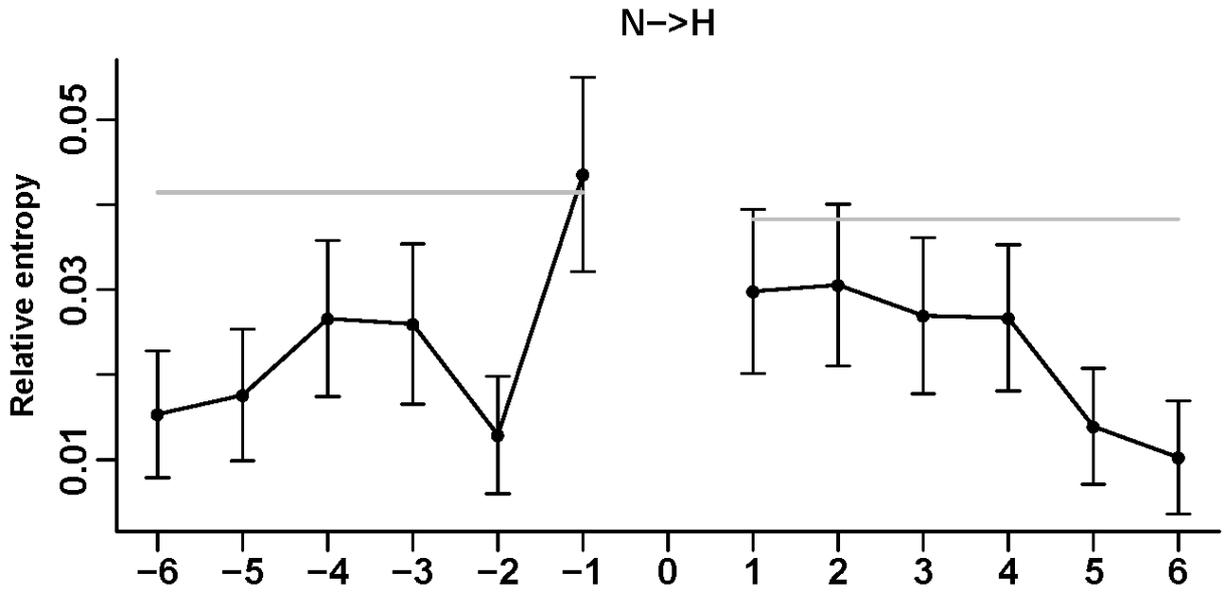


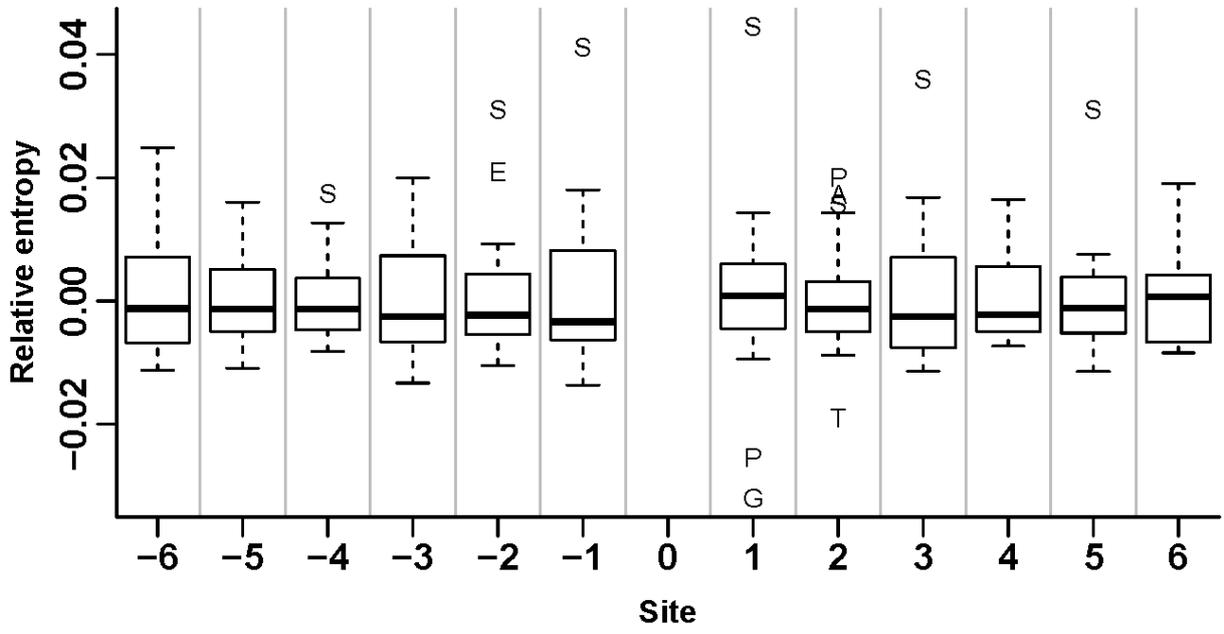
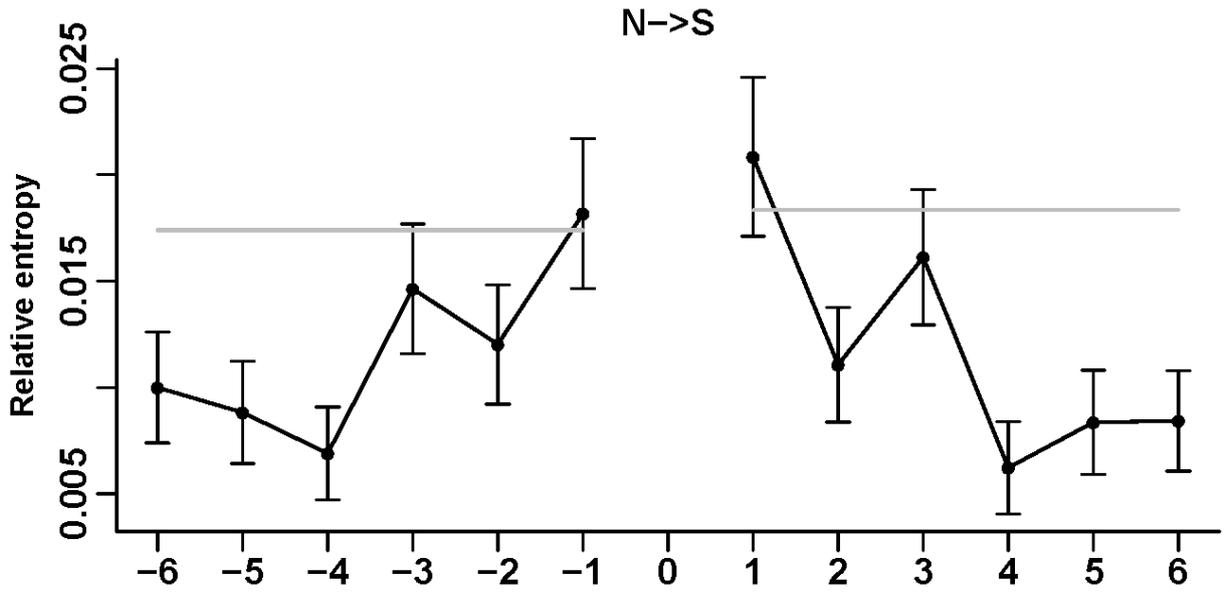




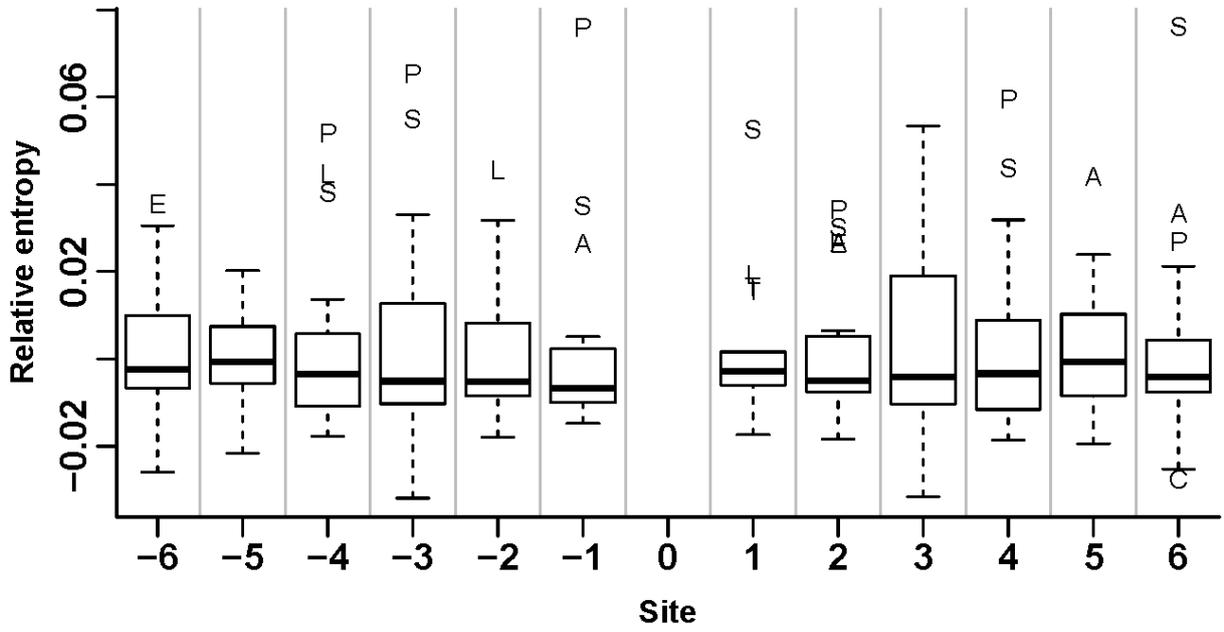
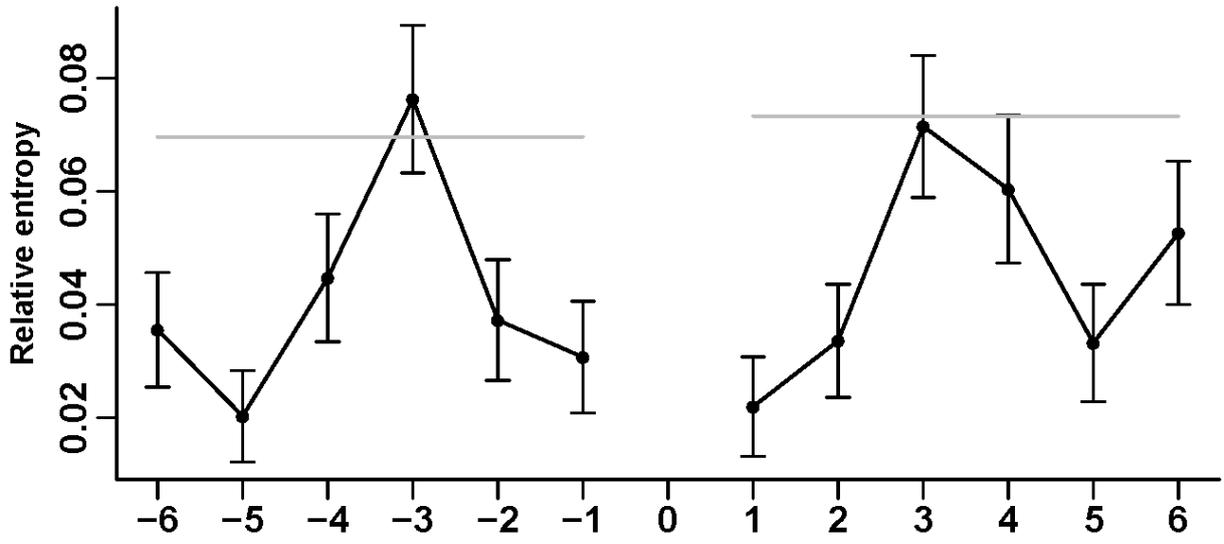


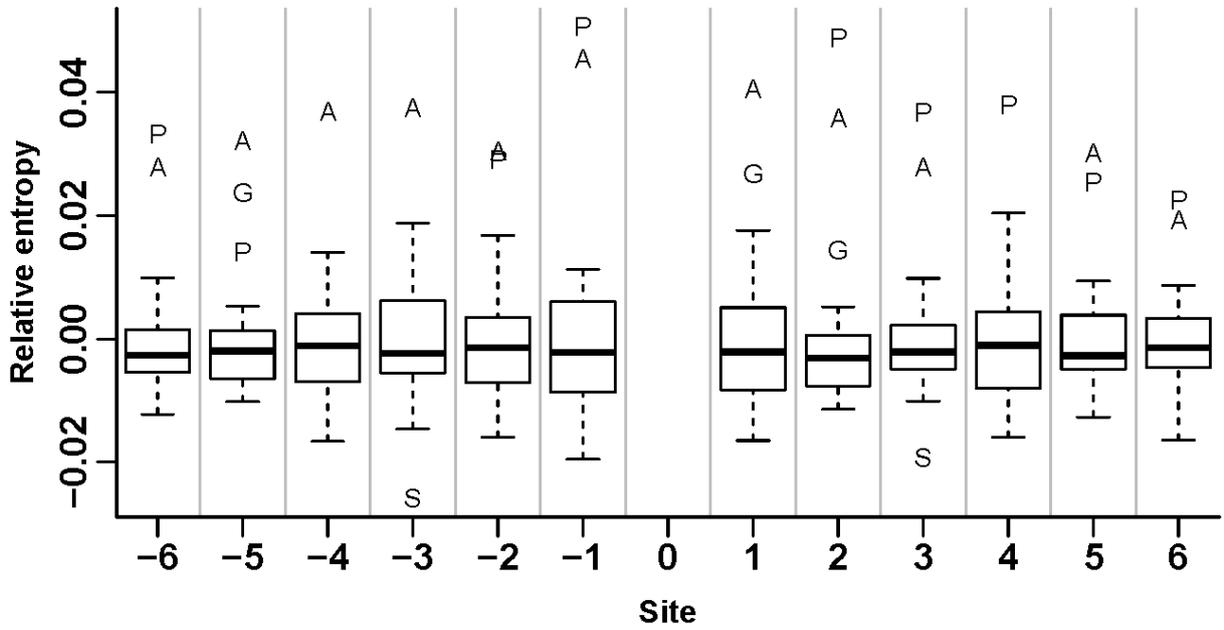
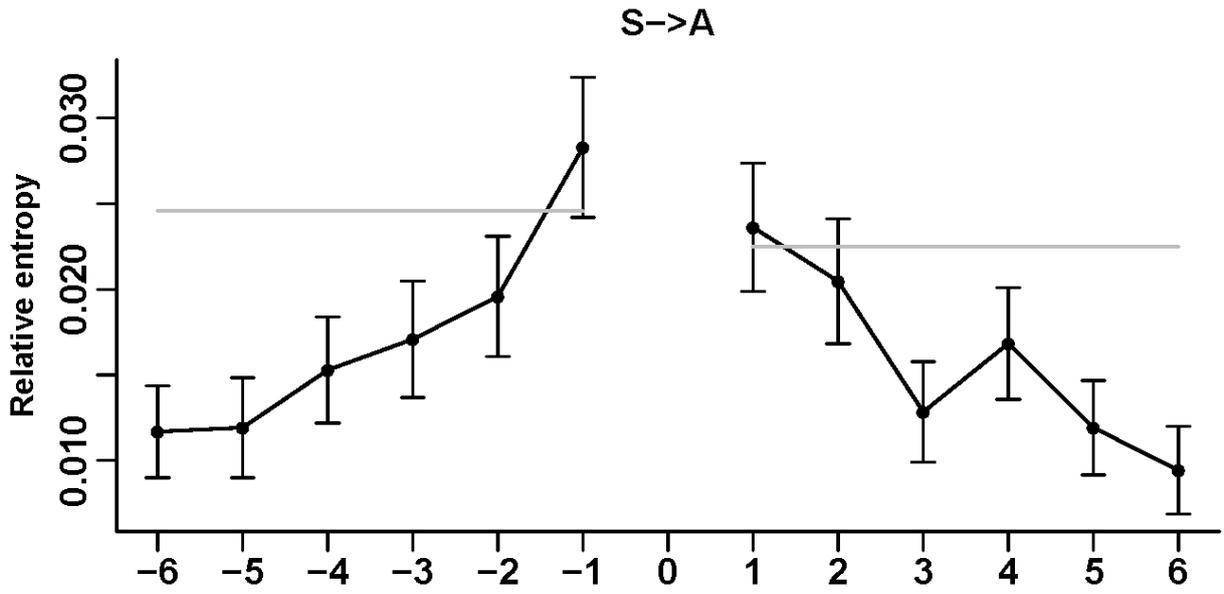


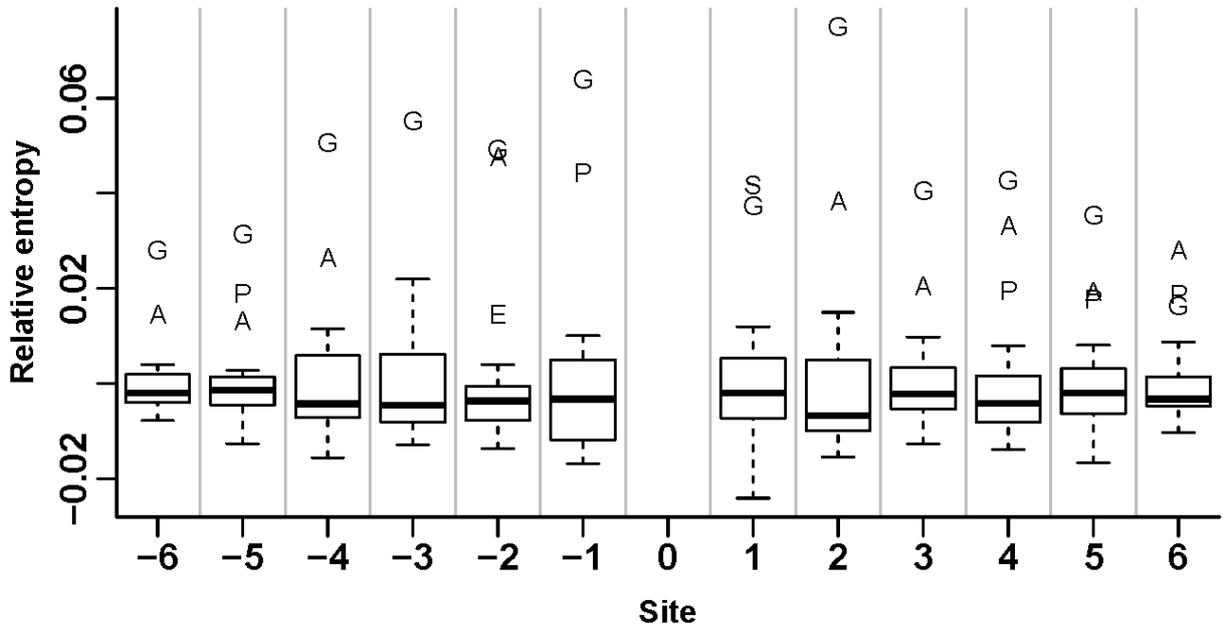
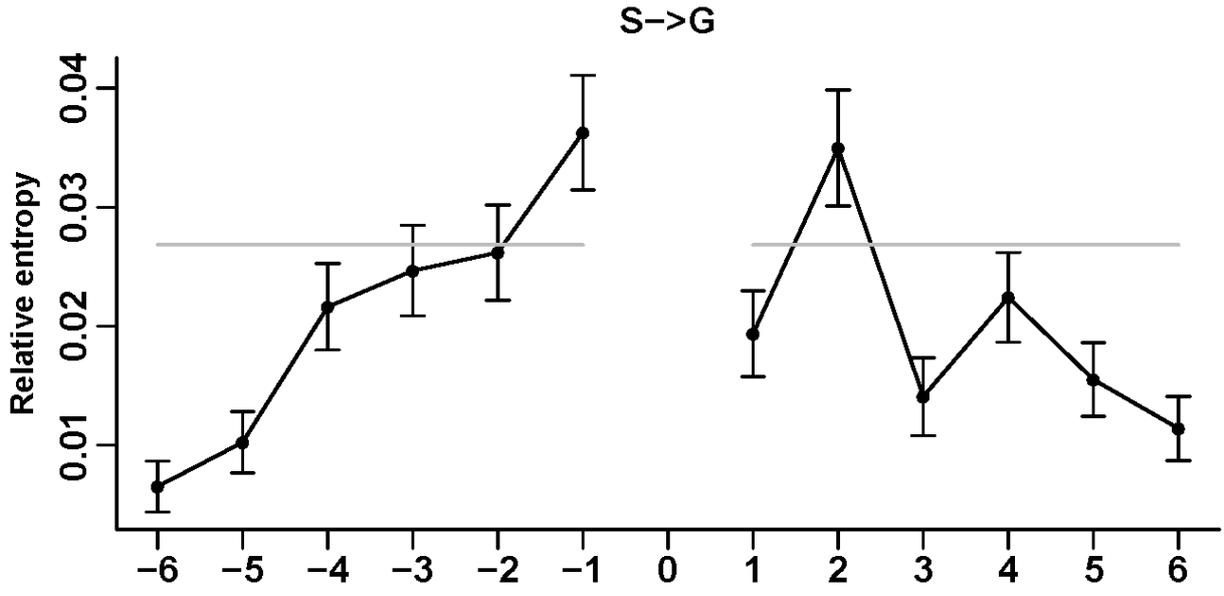


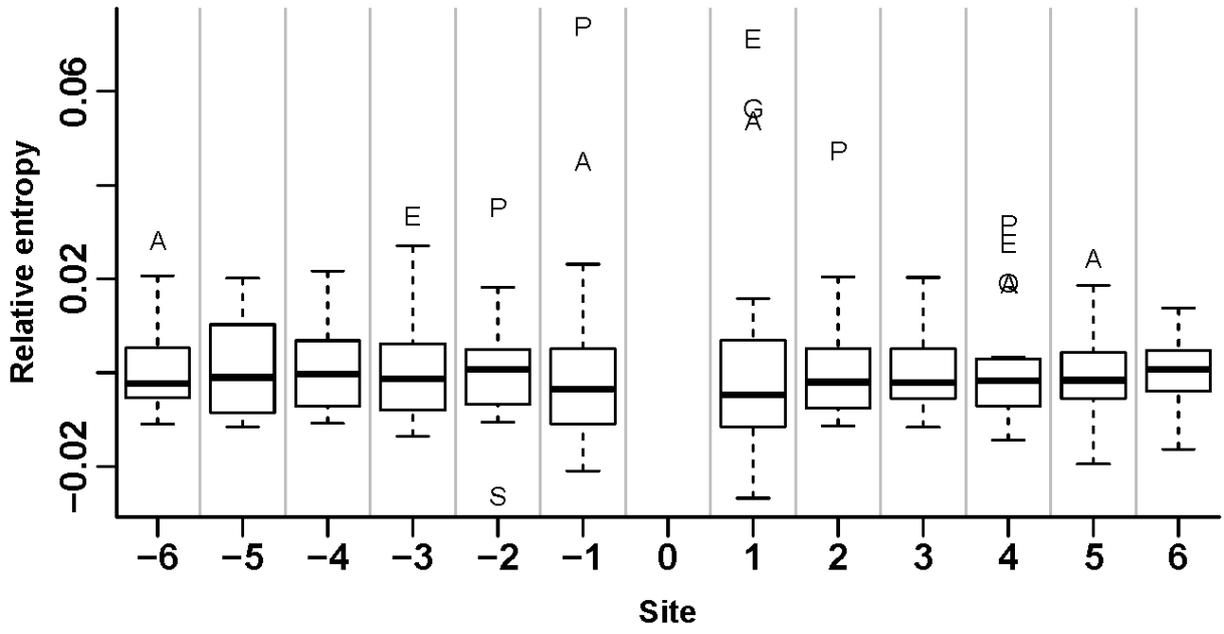
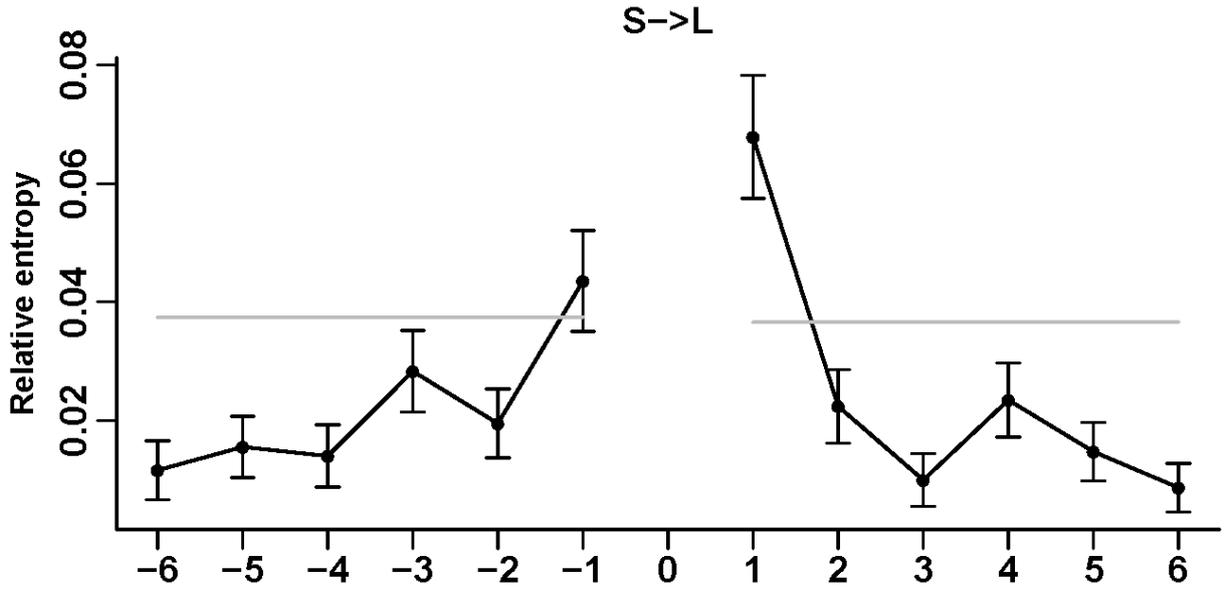


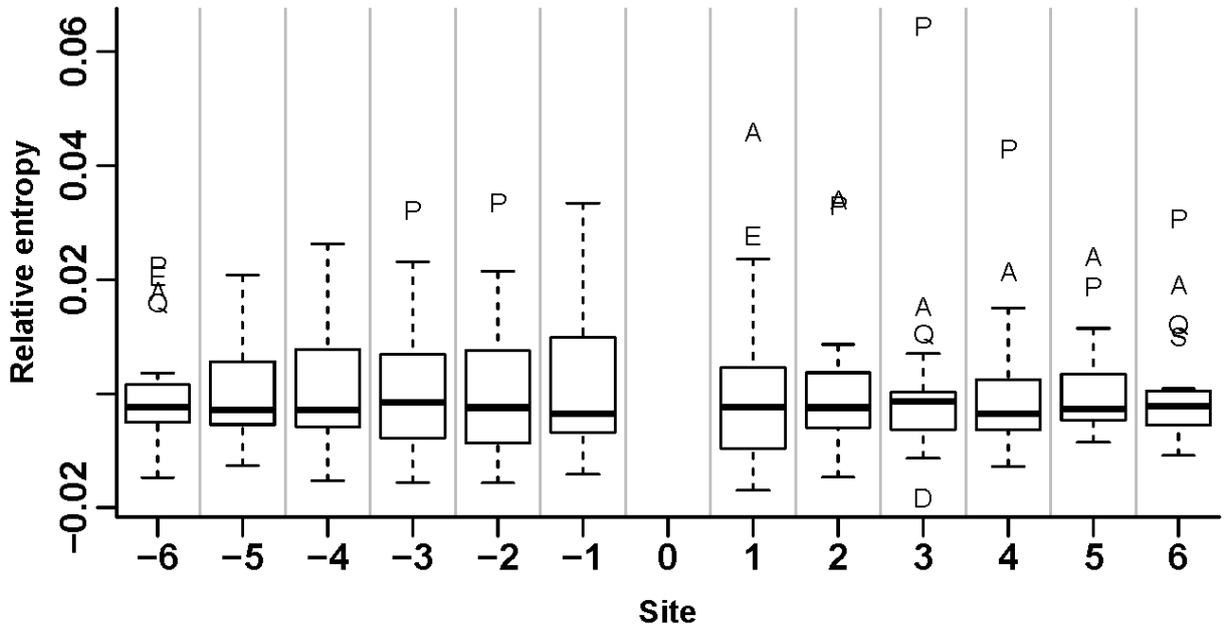
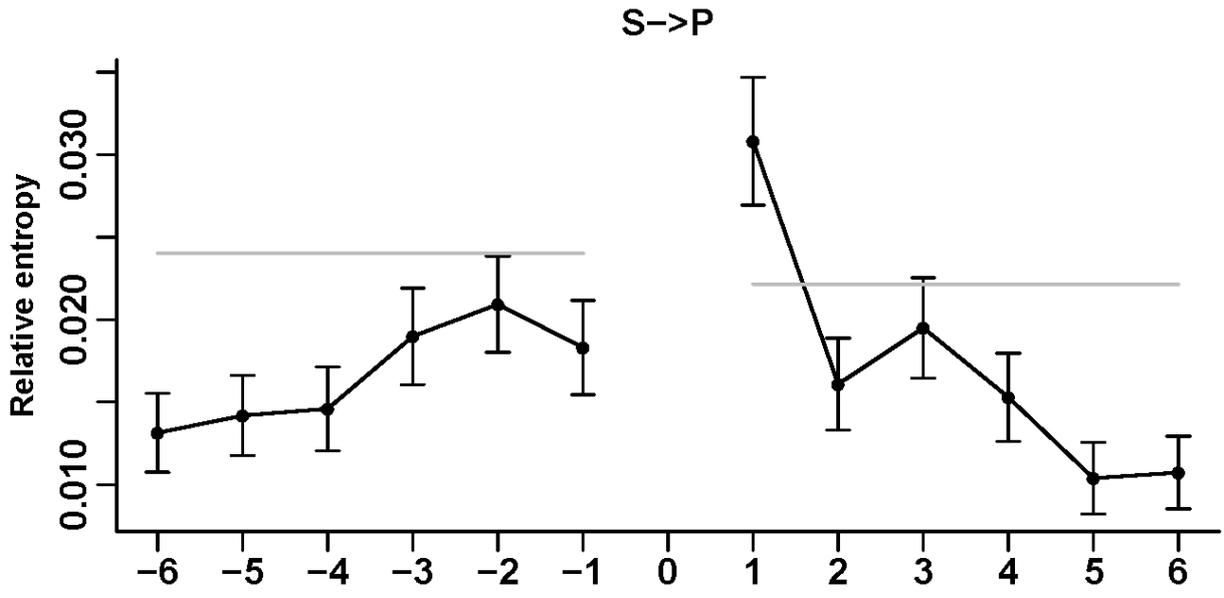
C→S

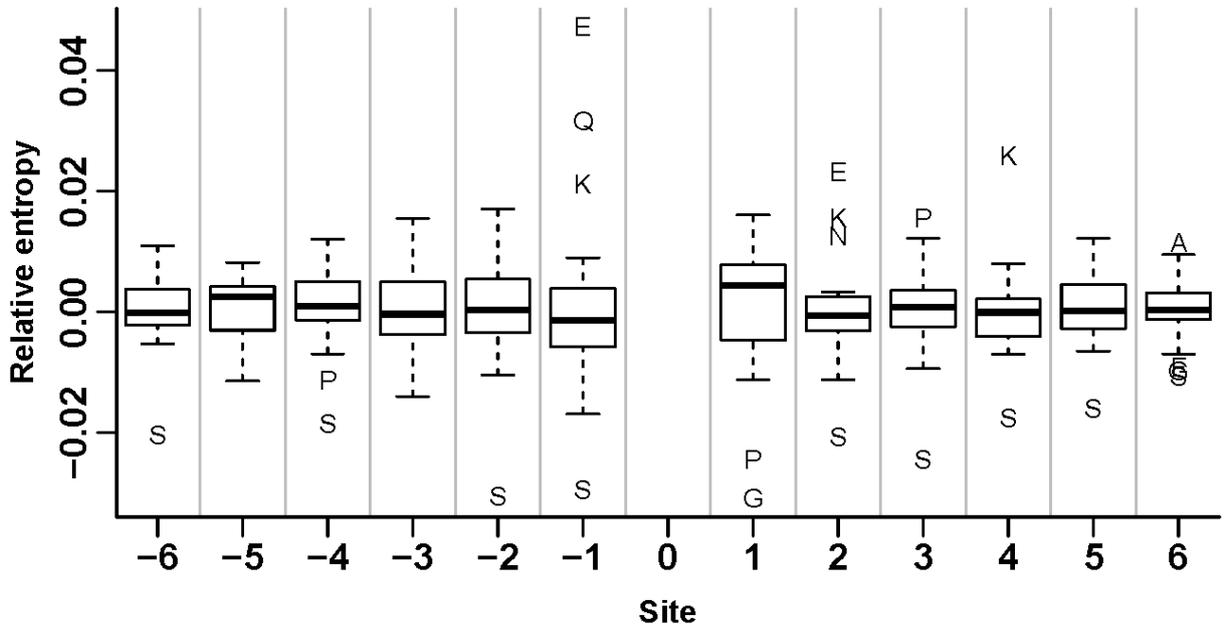
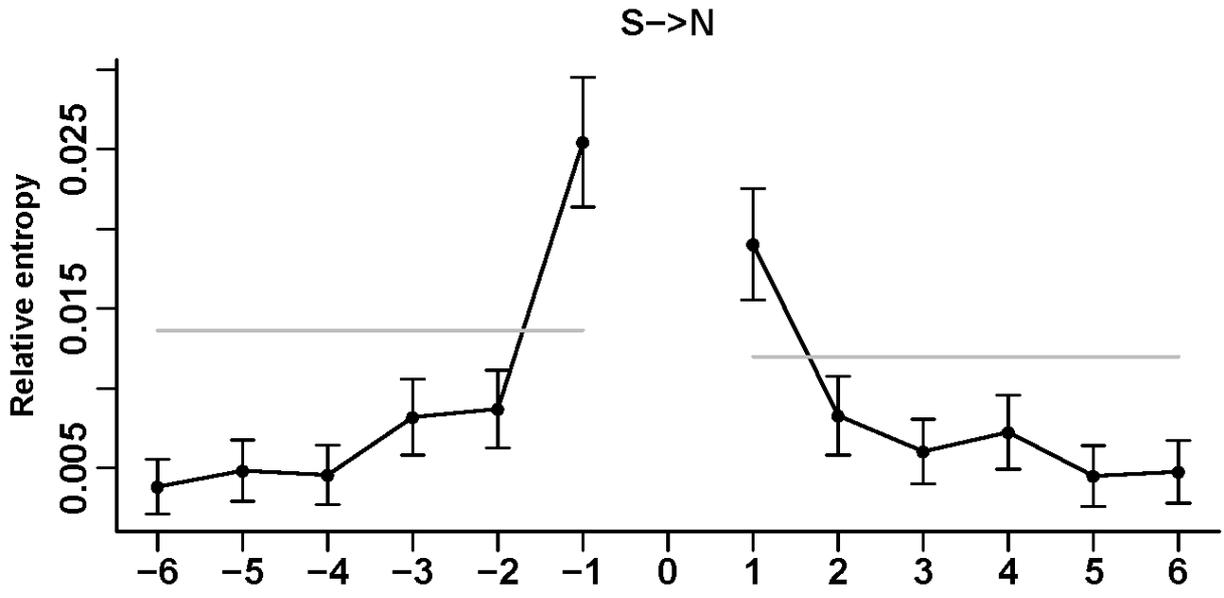


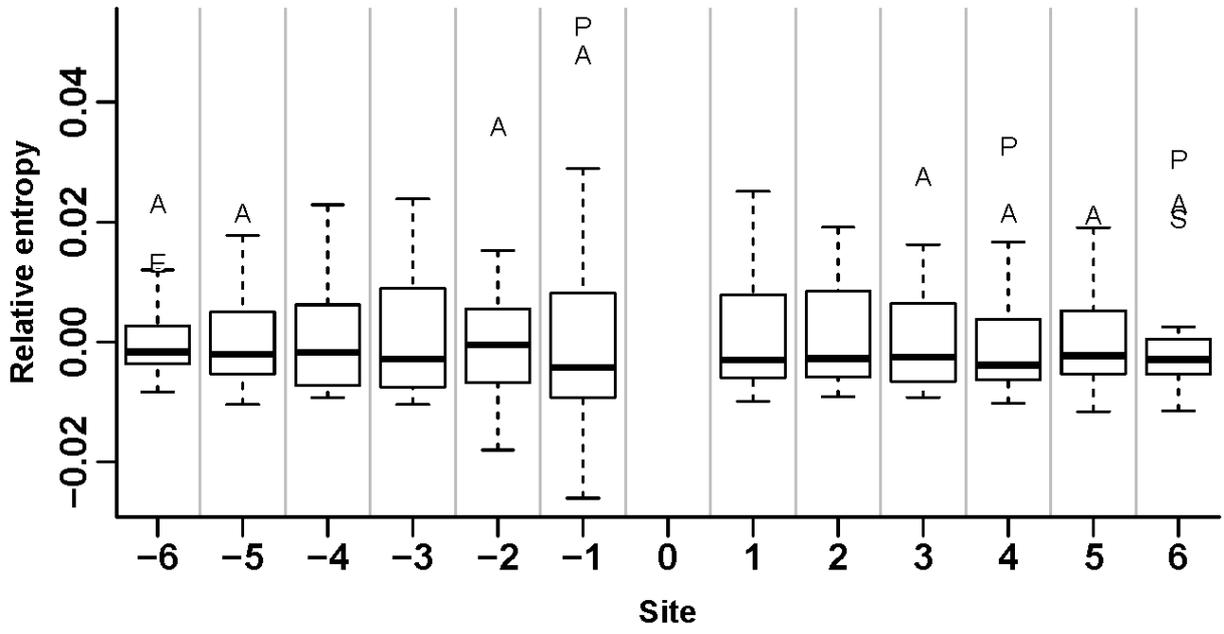
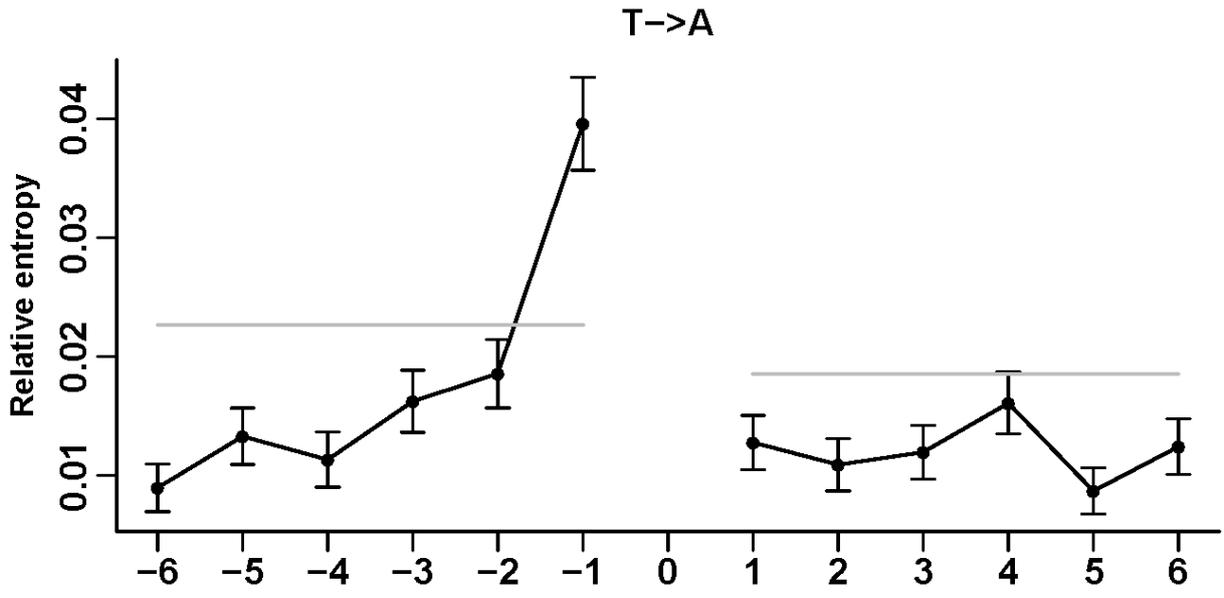


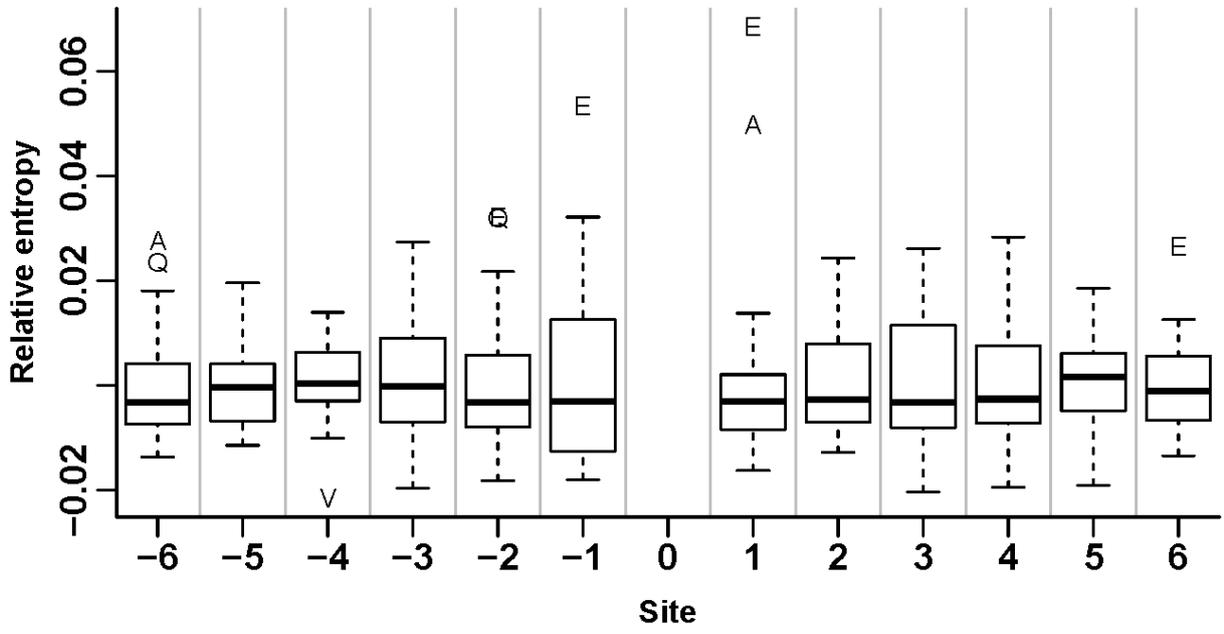
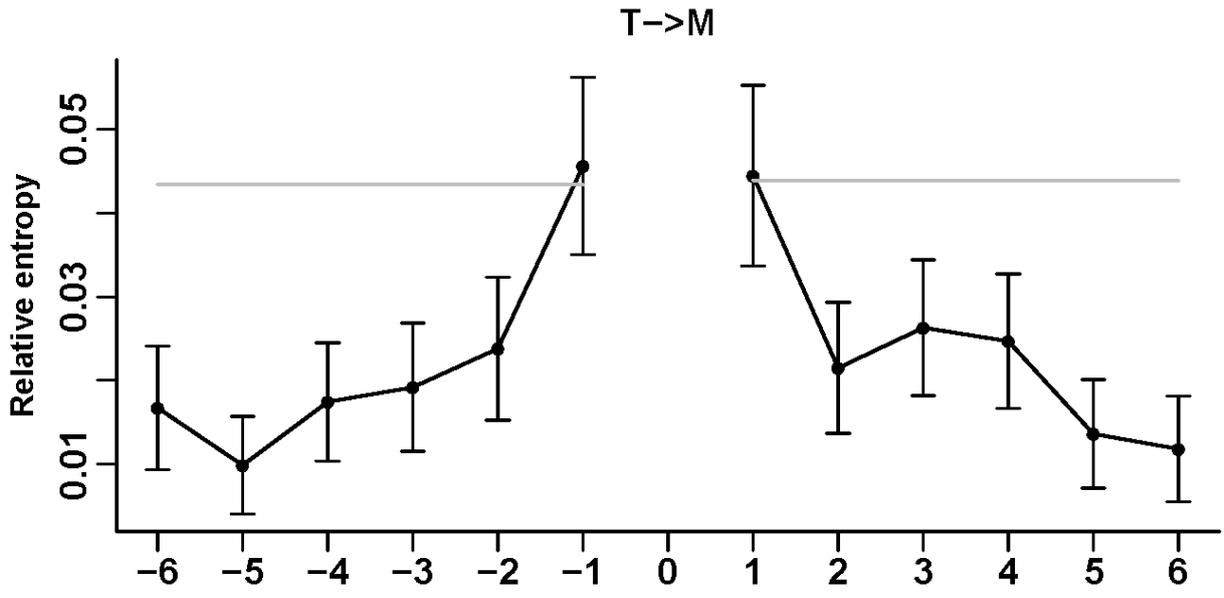


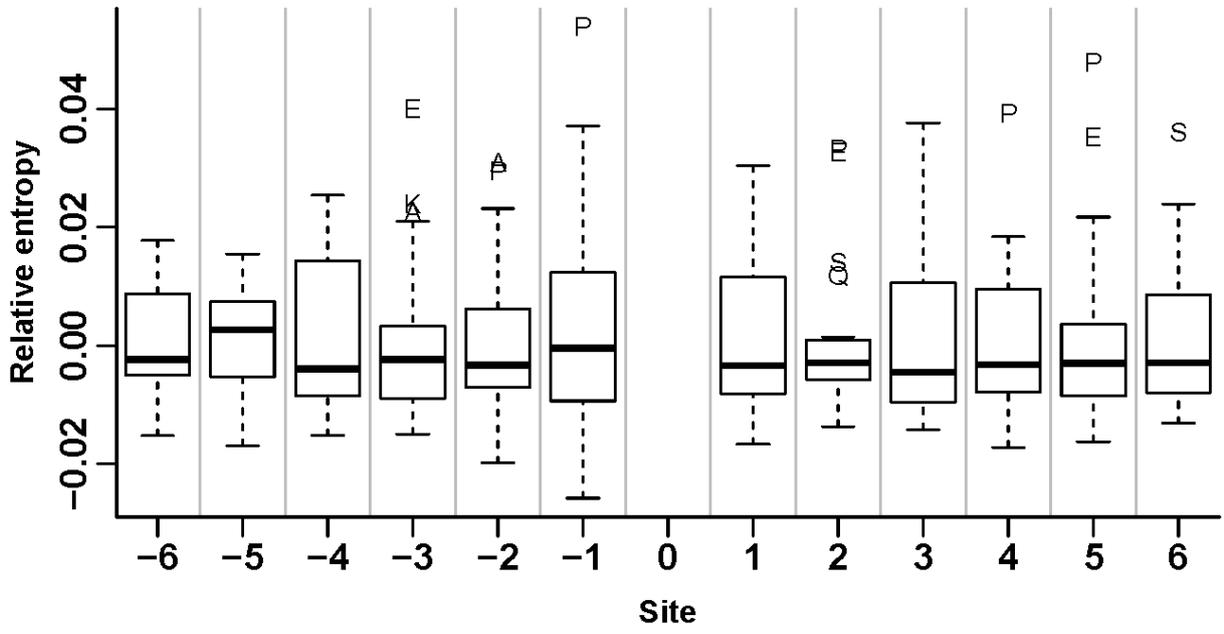
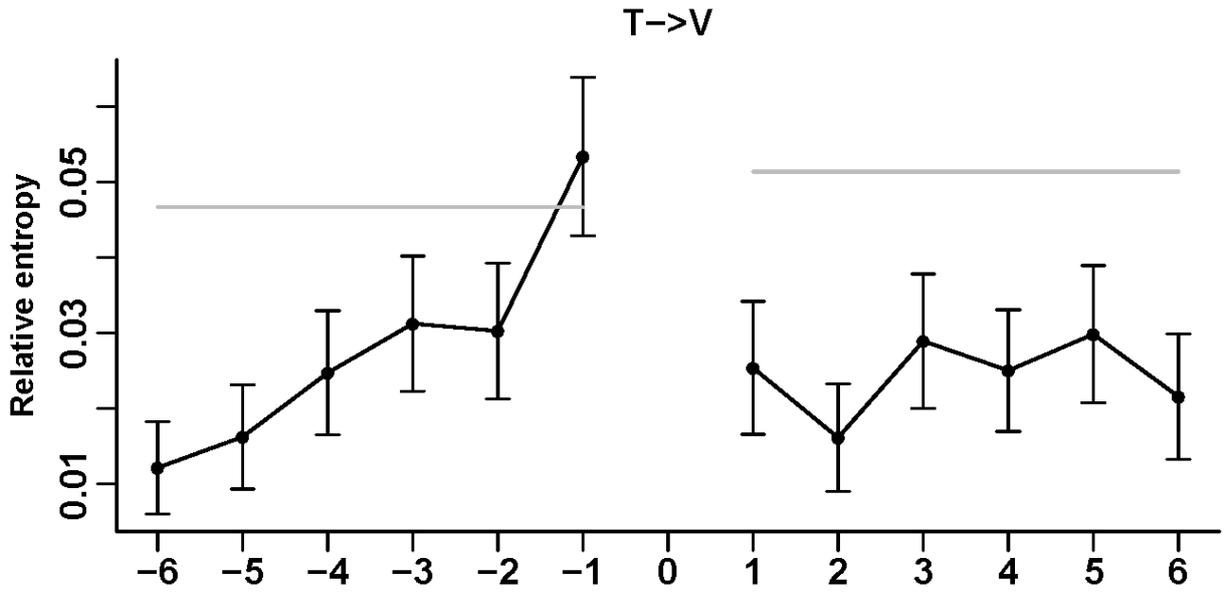


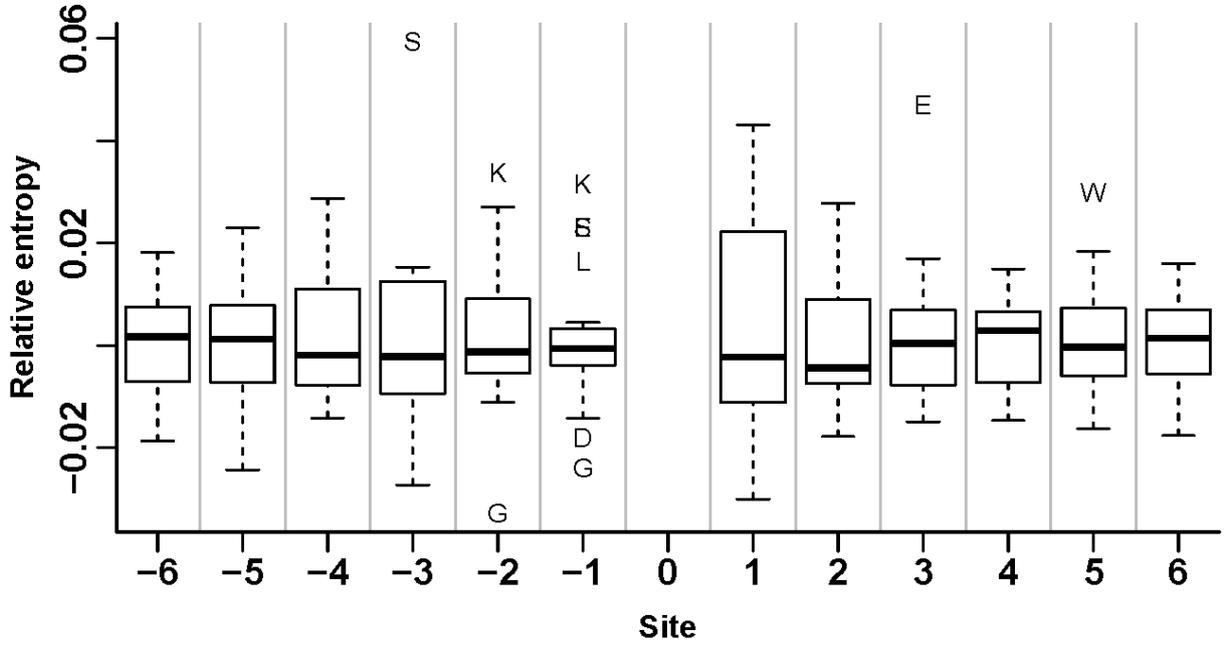
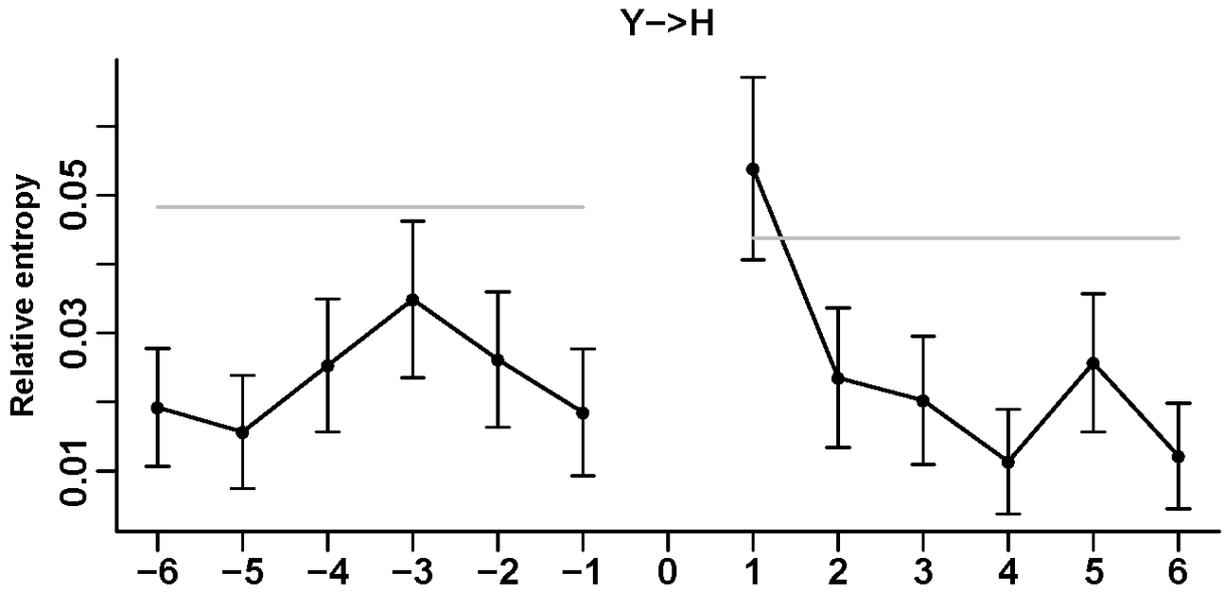












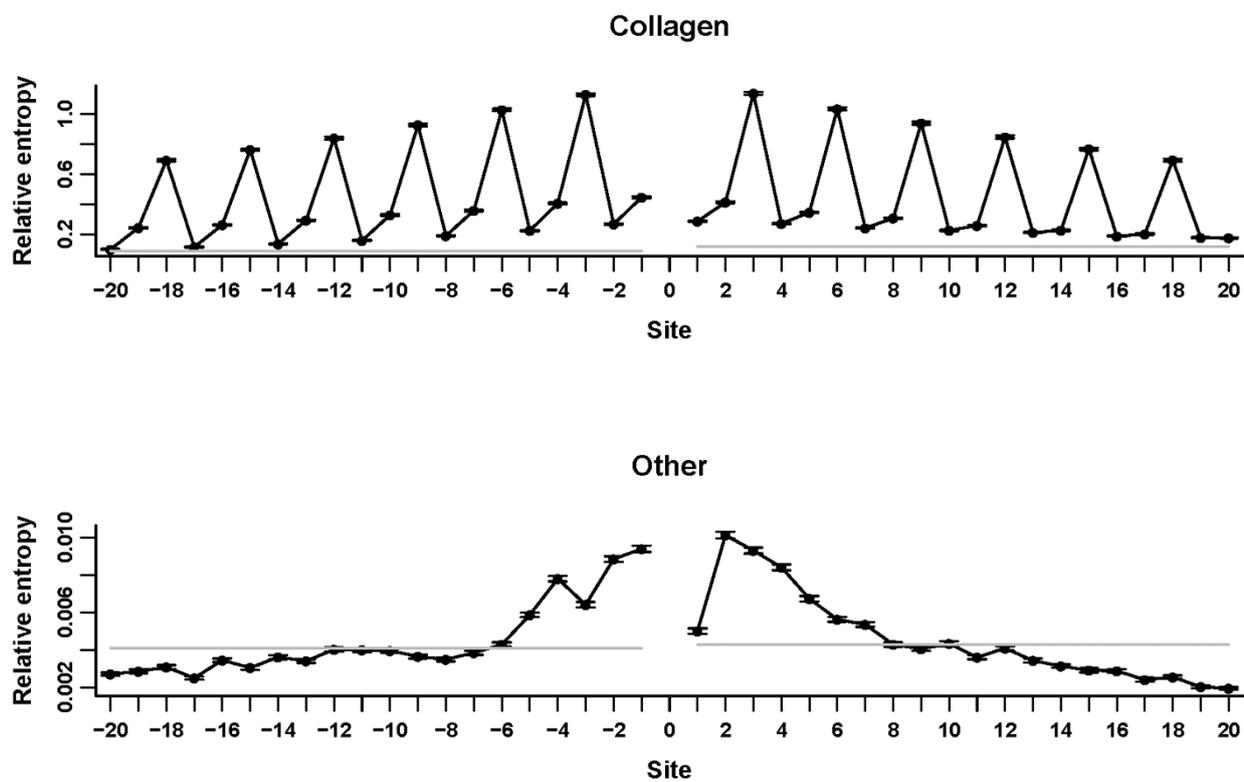
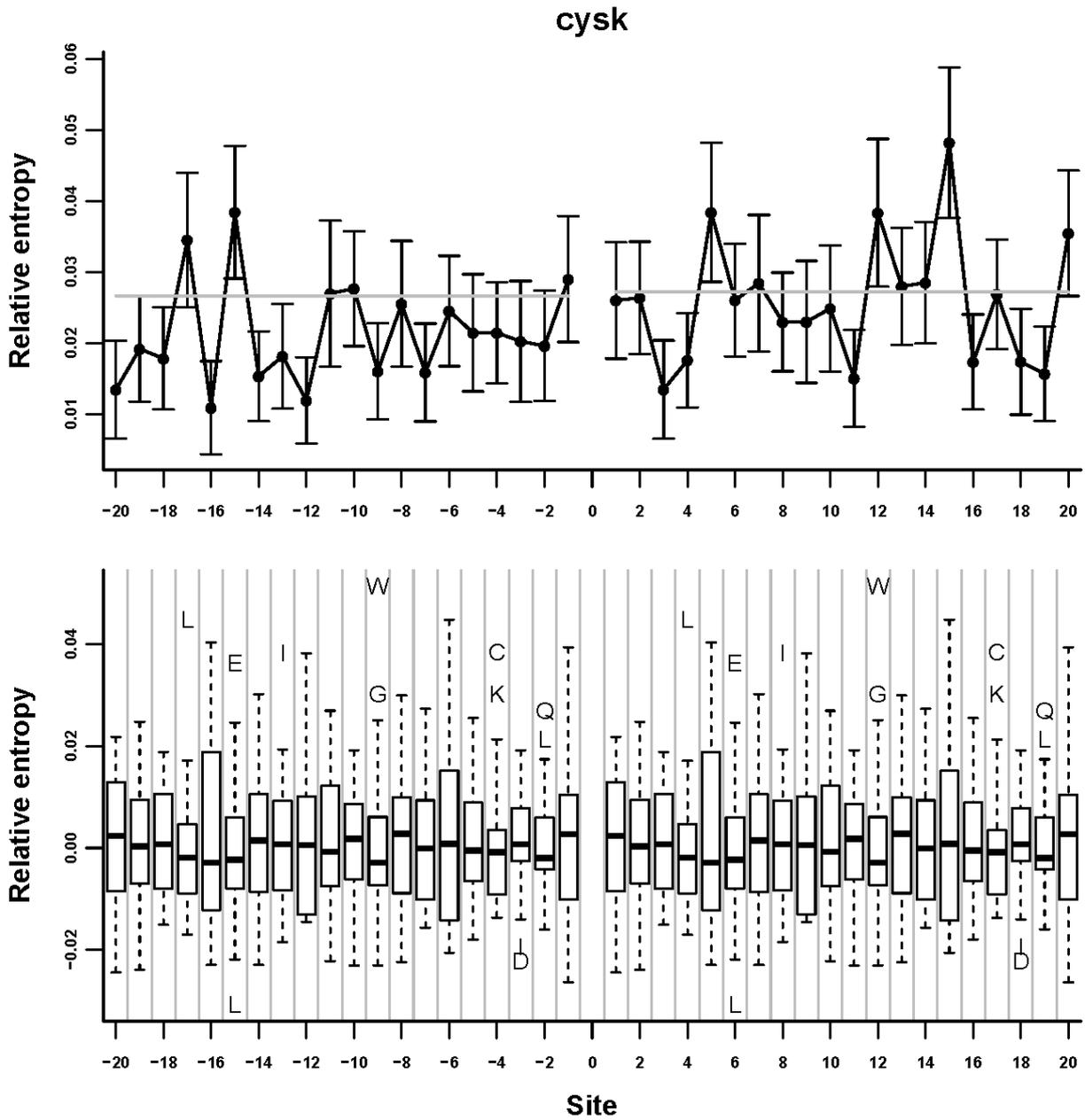
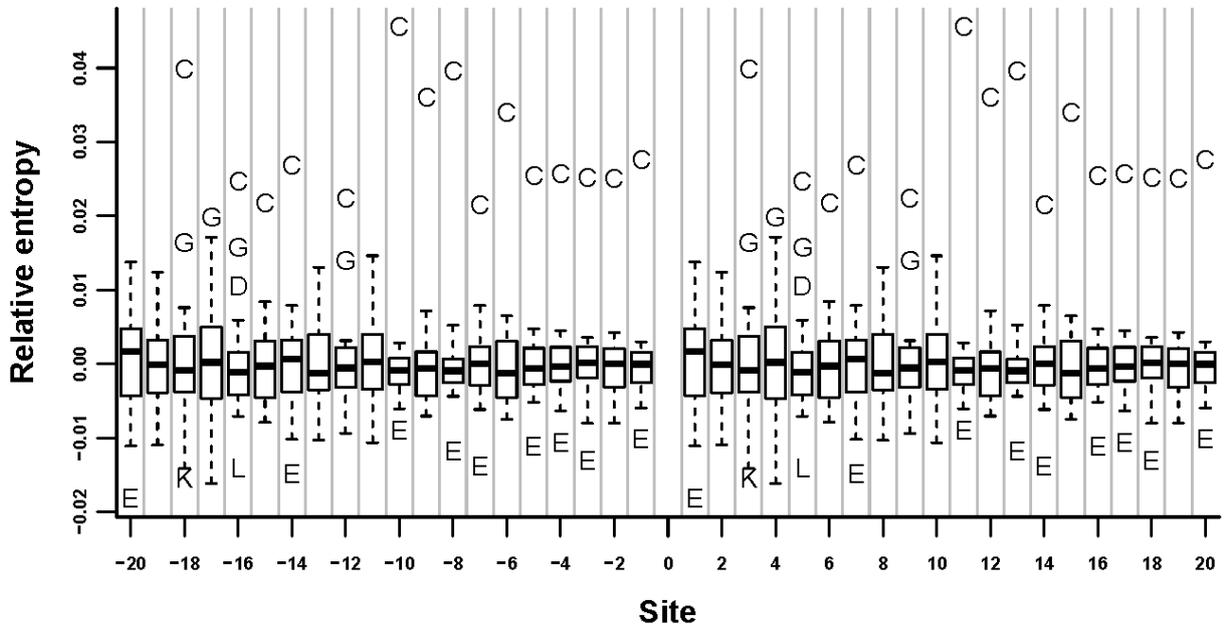
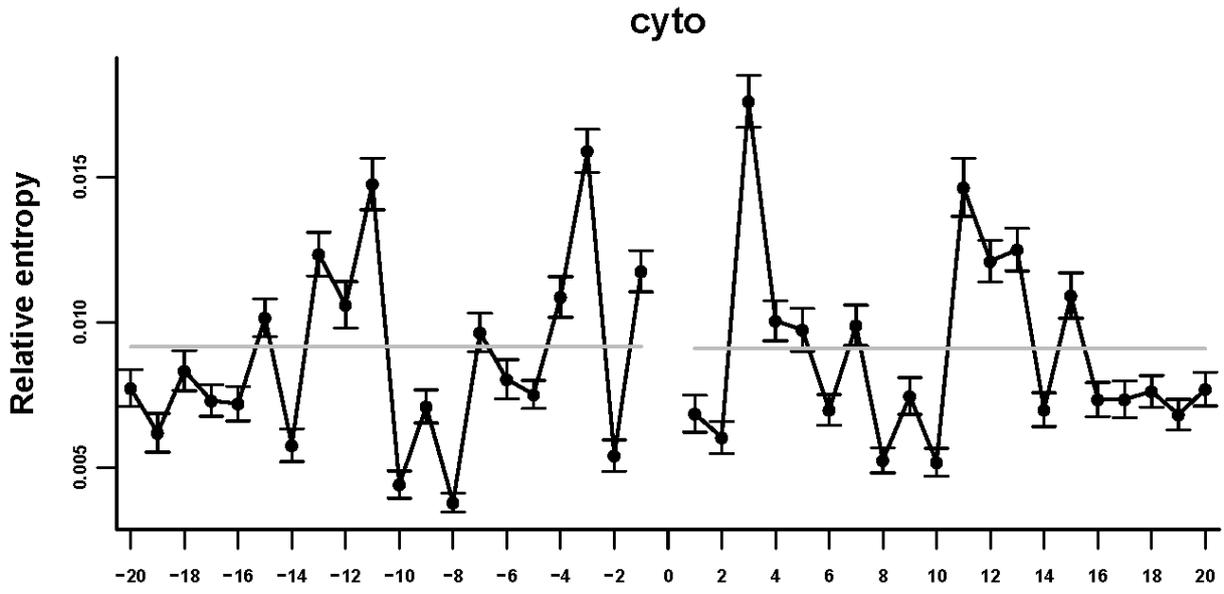
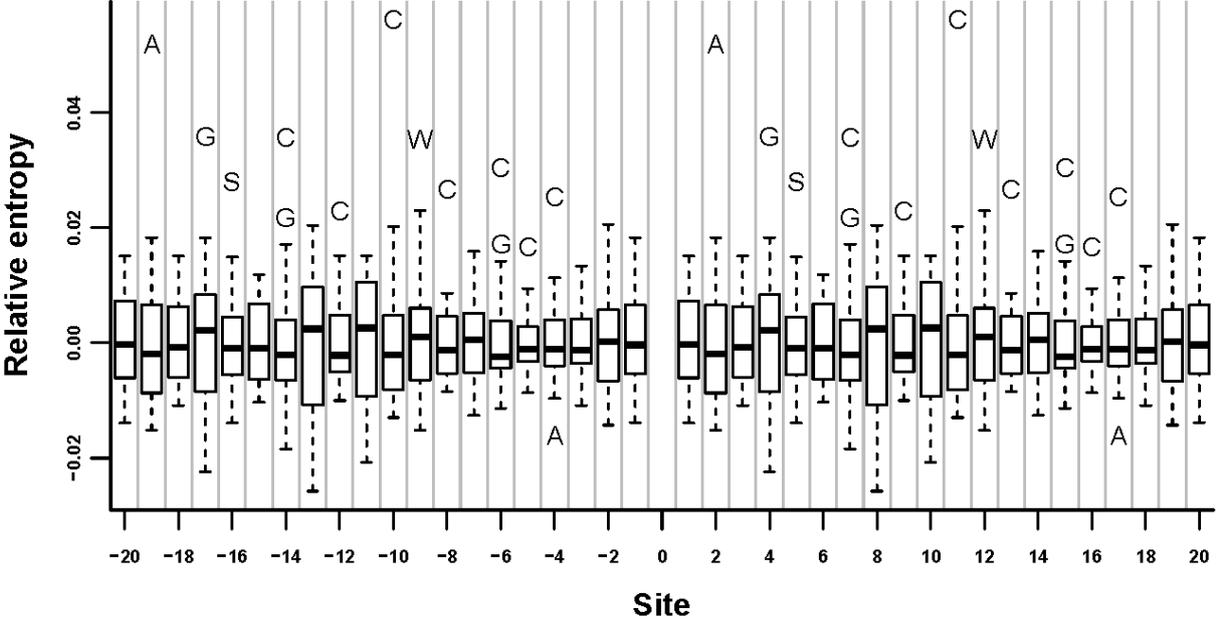
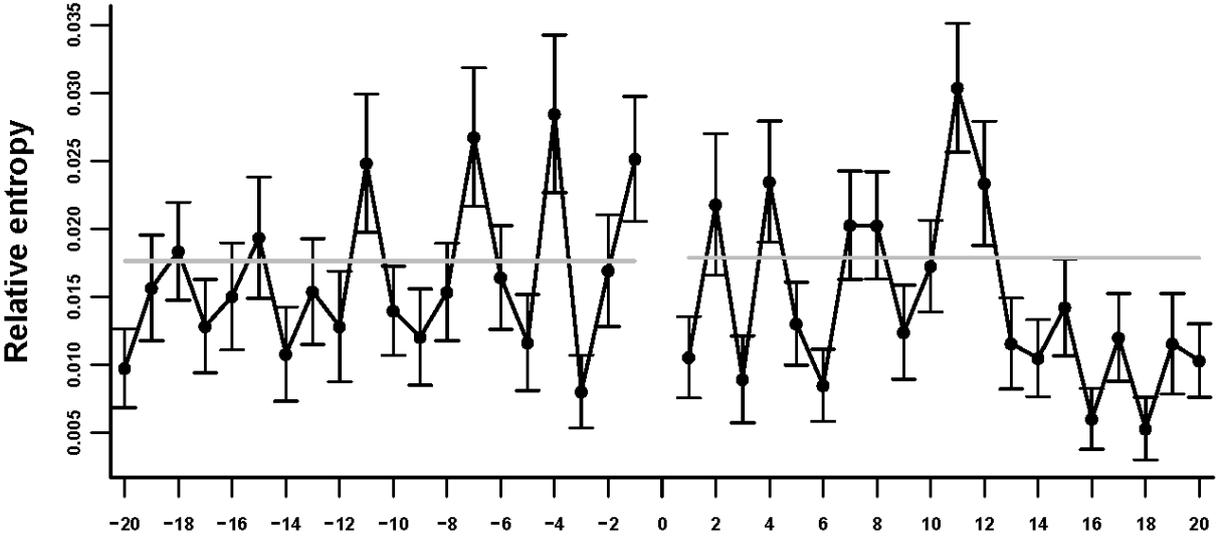
**Figure S8.** Neighbor preference patterns of G in collagen and other proteins.

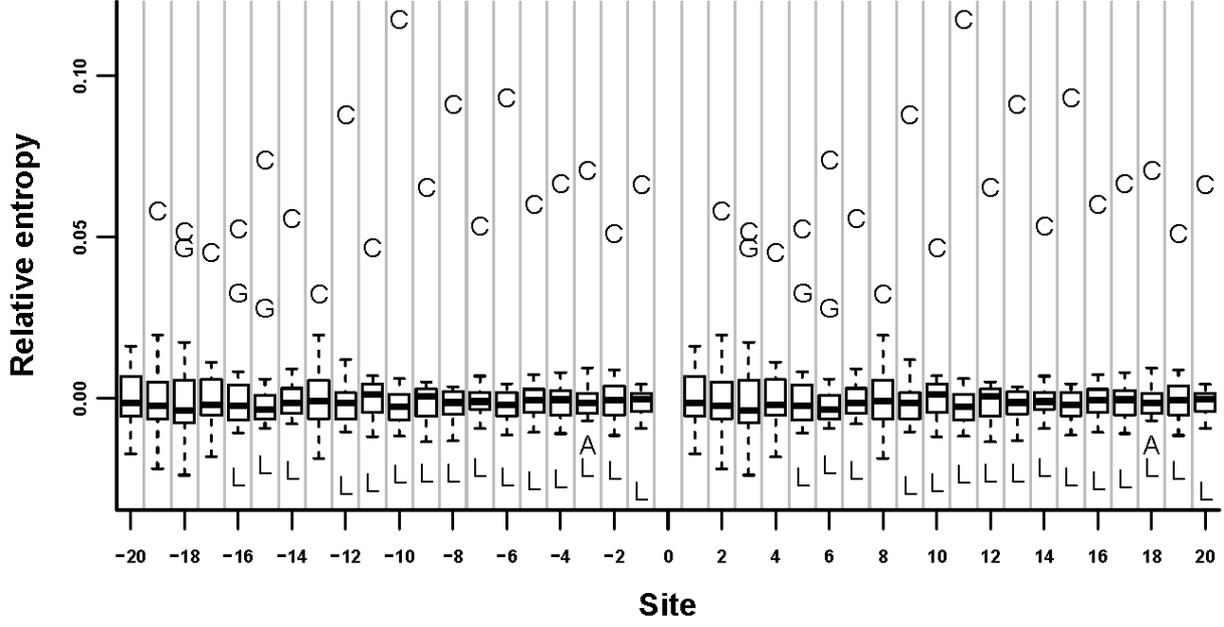
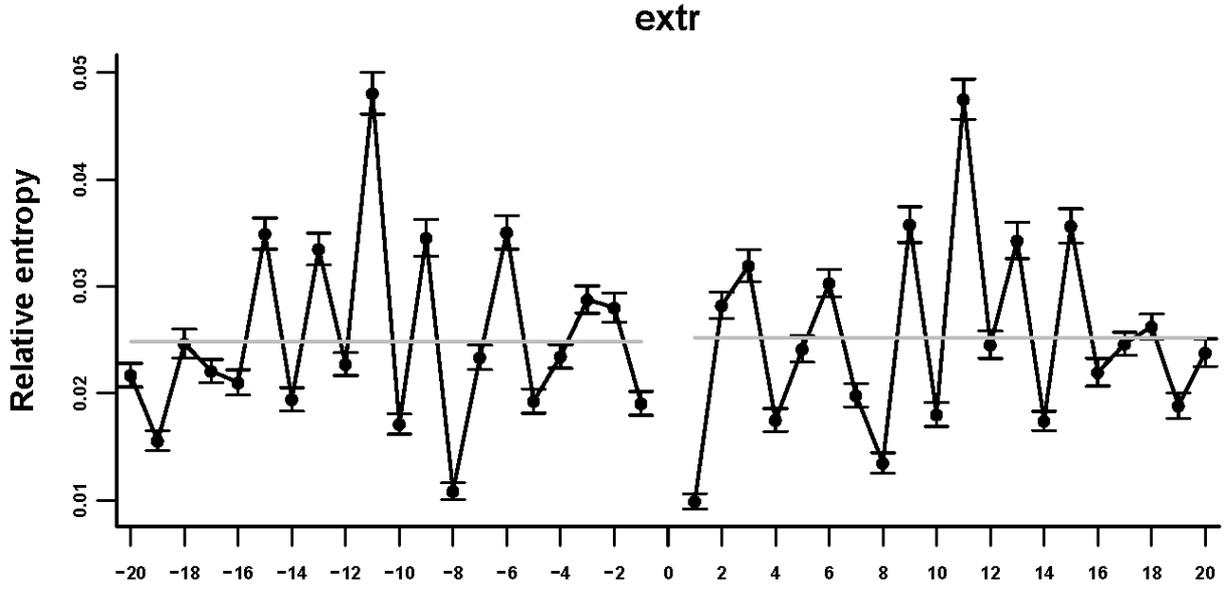
Figure S9. Neighbor preference patterns of C in different cellular locations.

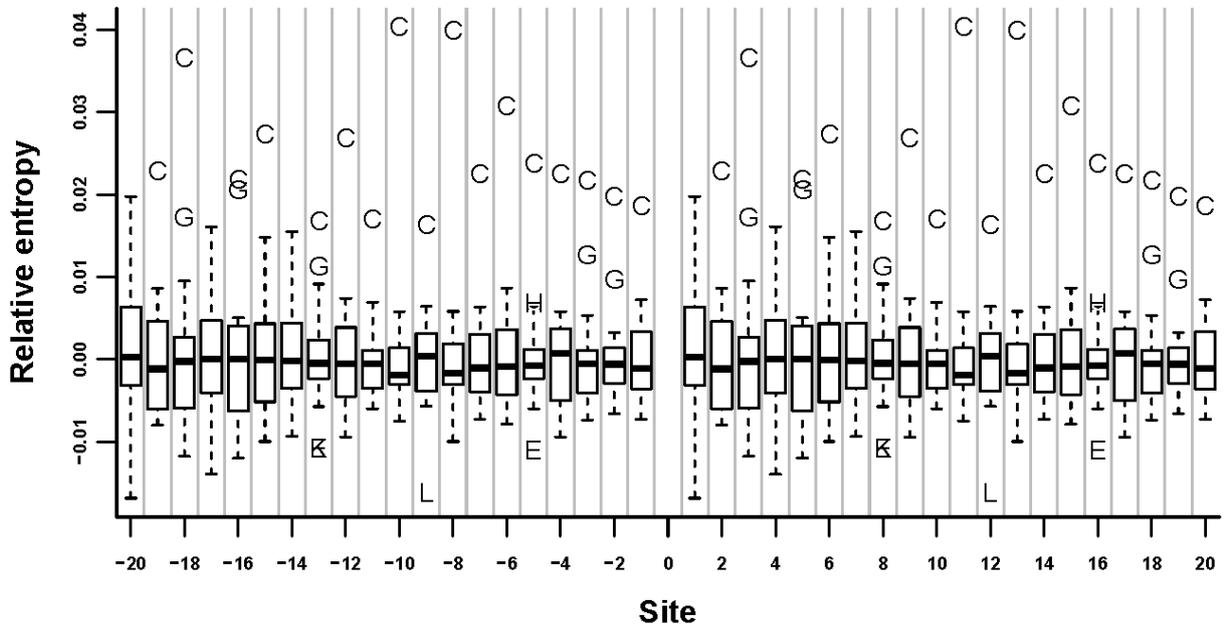
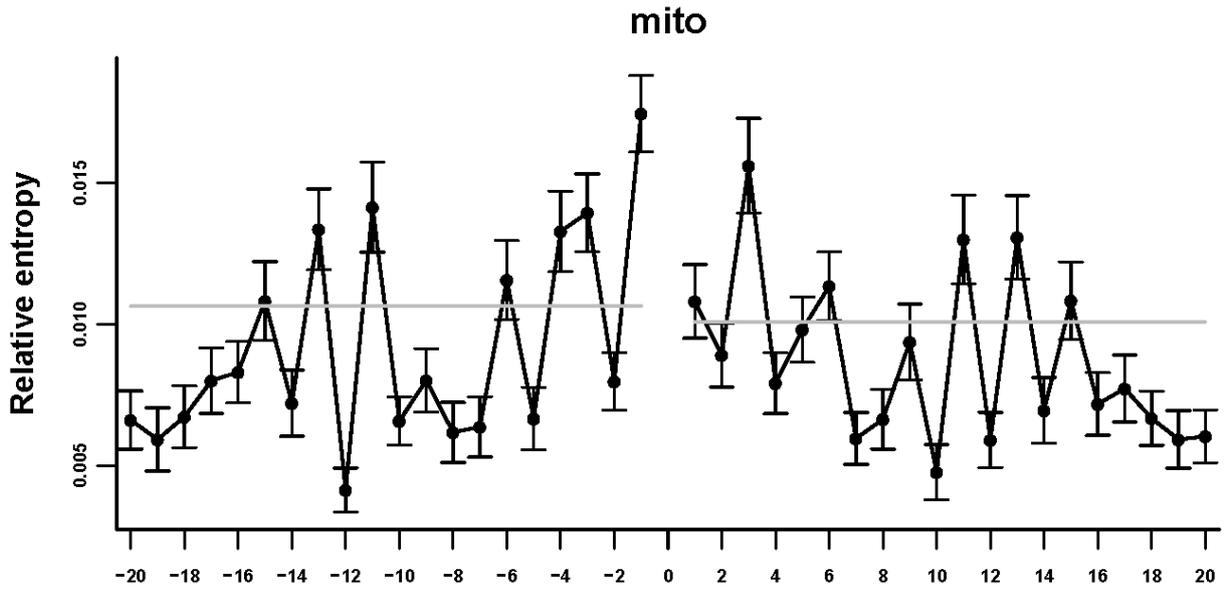




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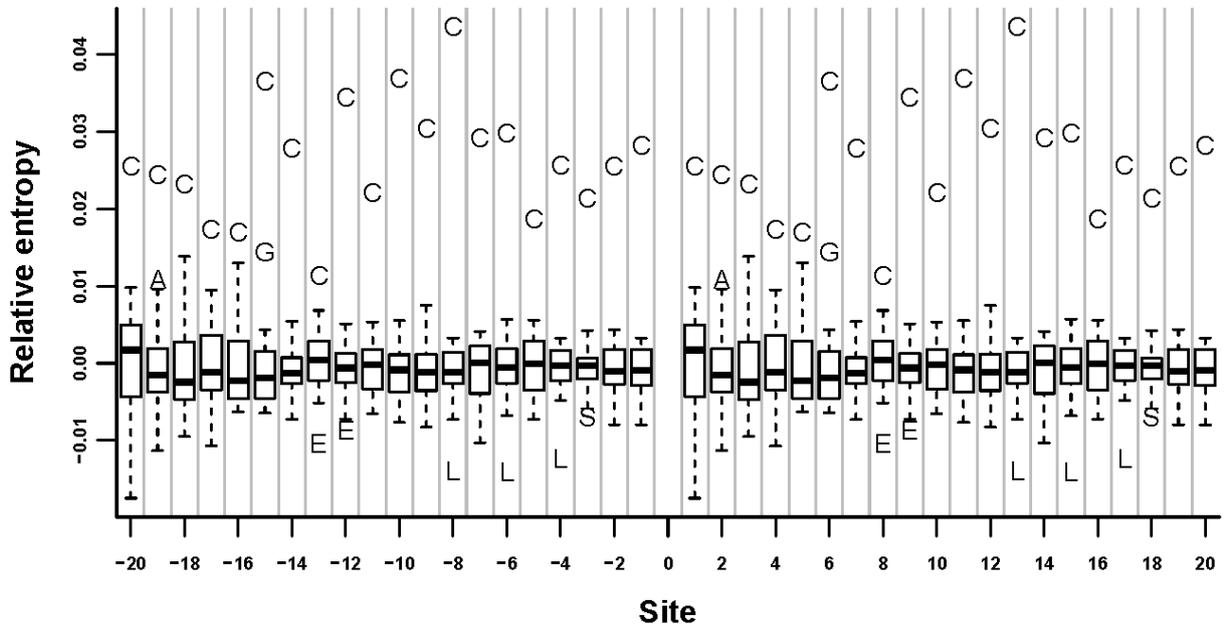
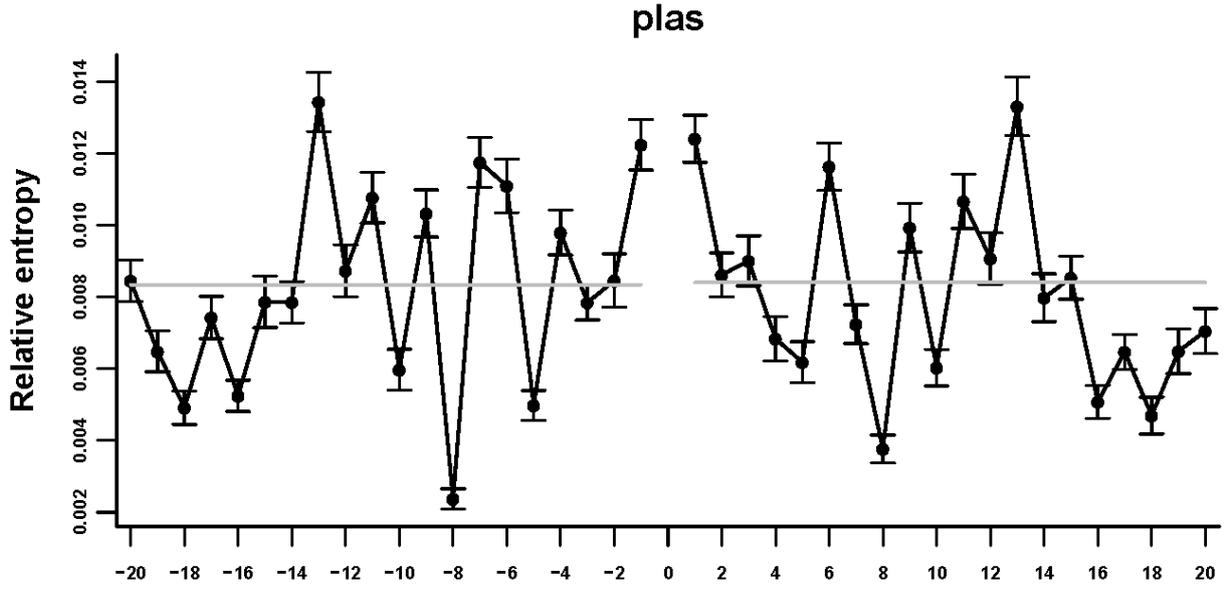
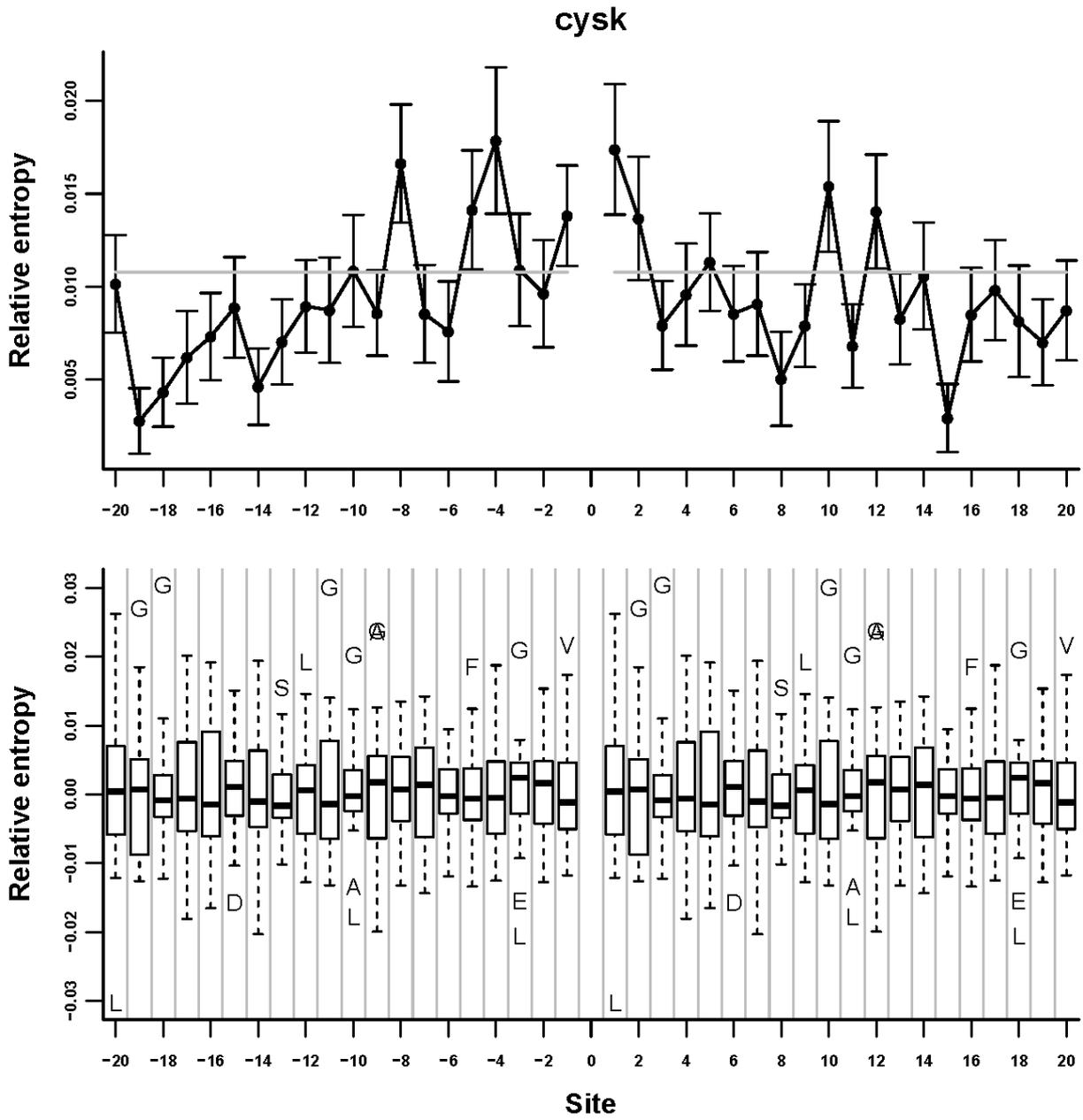
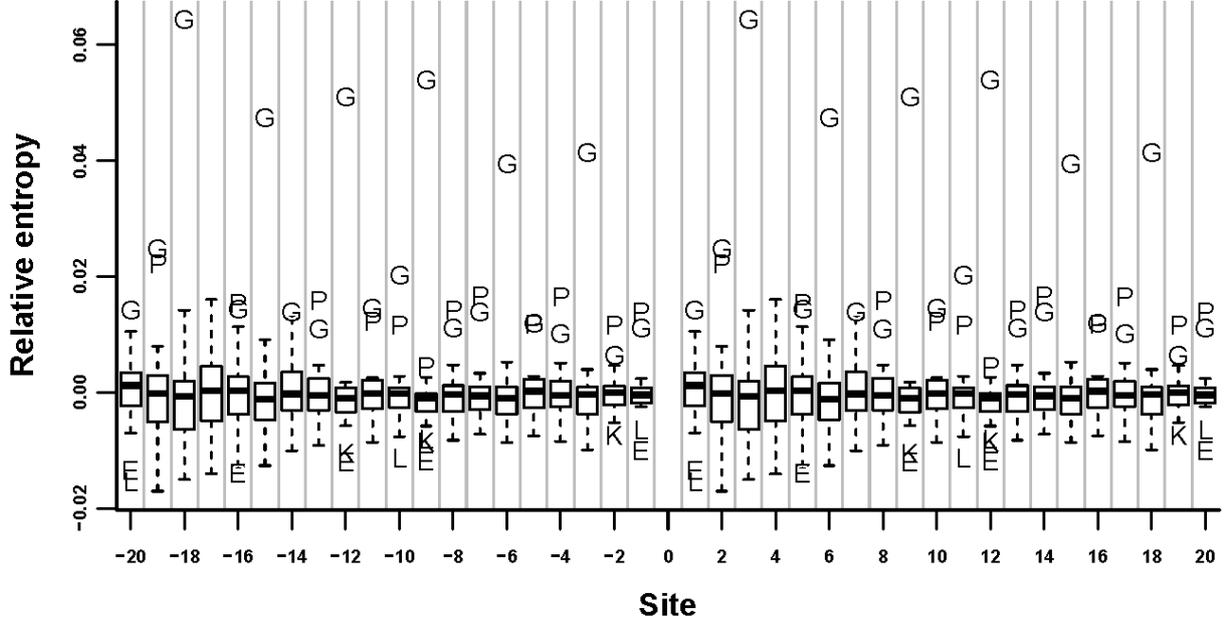
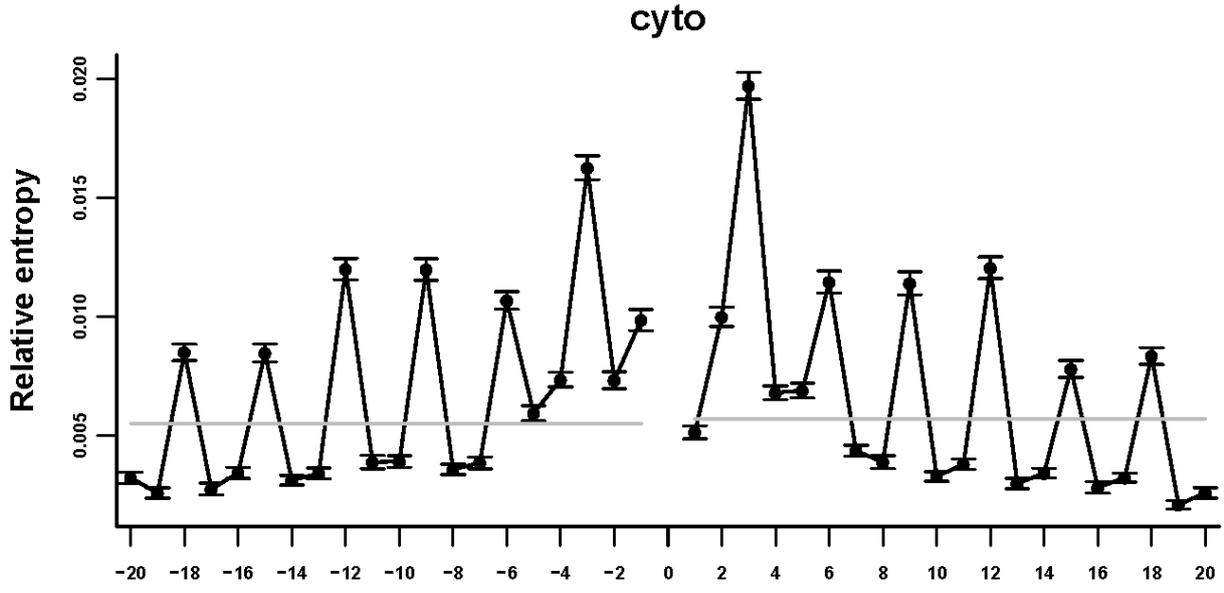
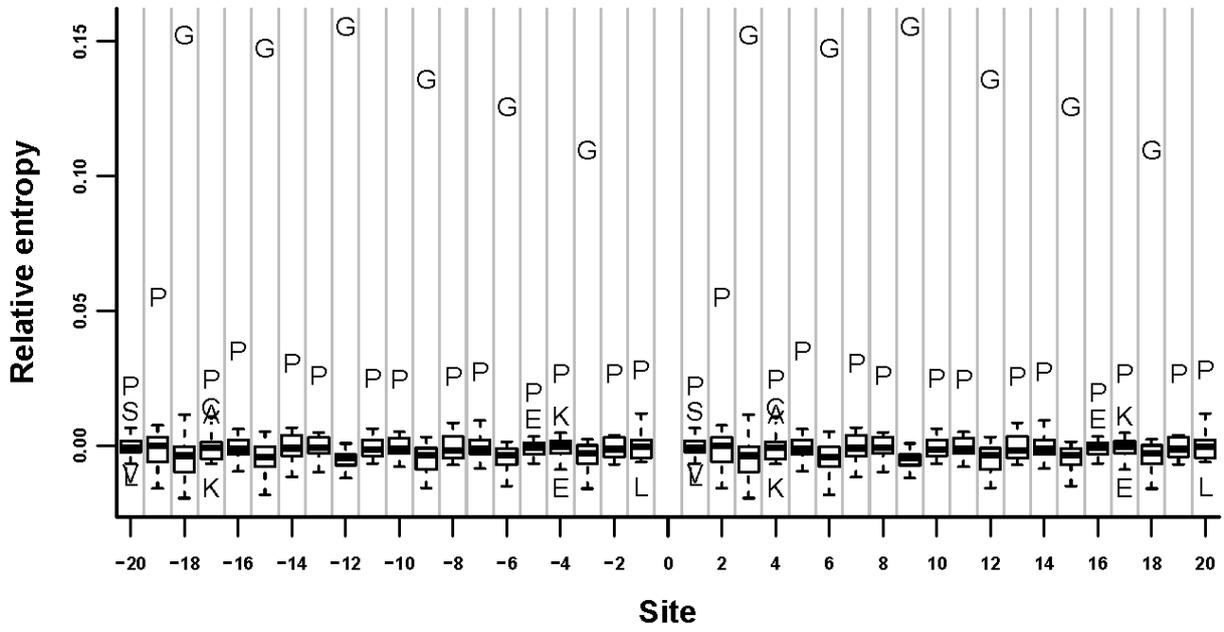
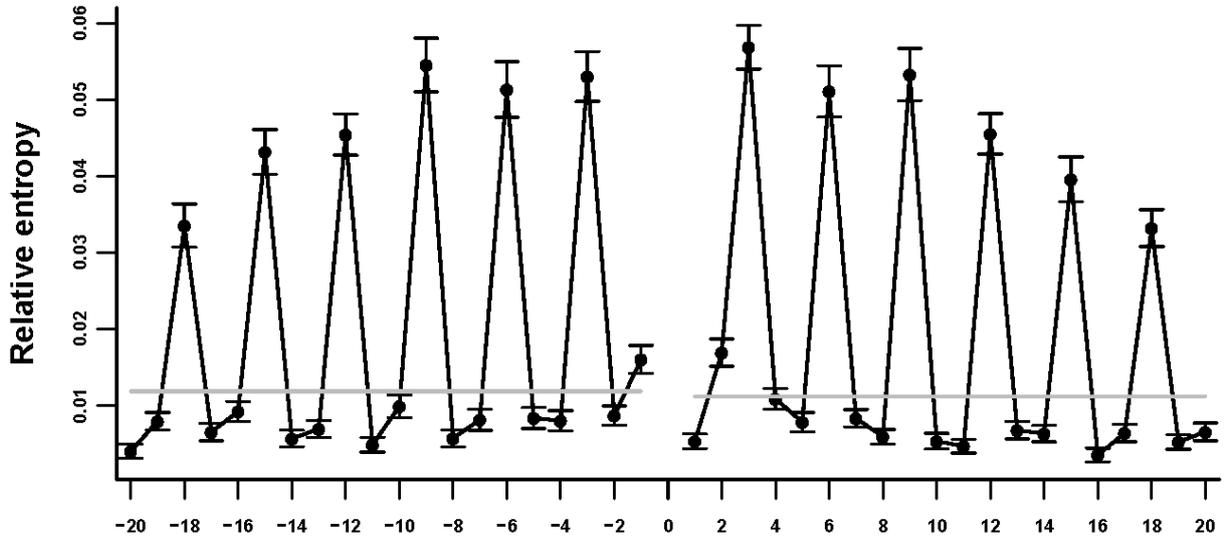


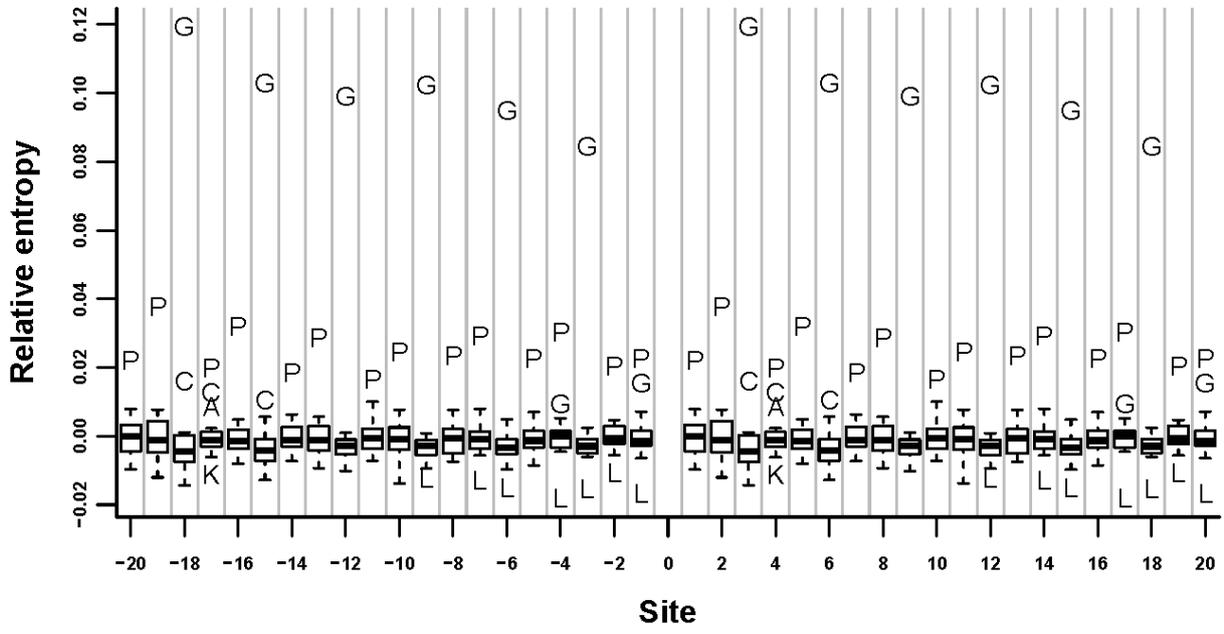
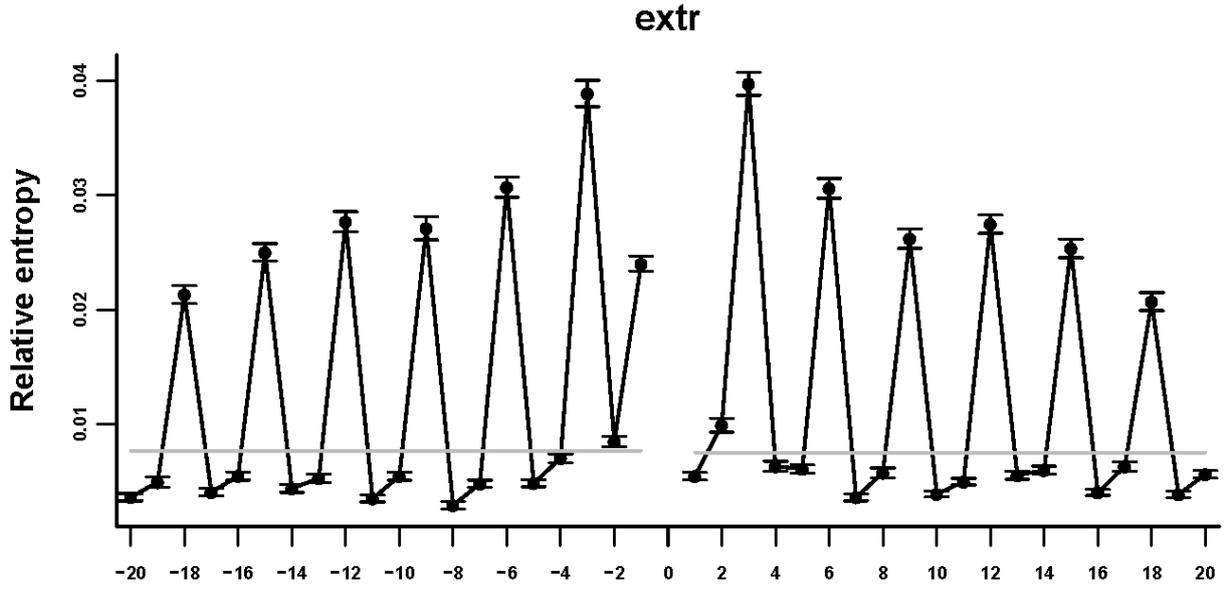
Figure S10. Neighbor preference patterns of G in different cellular locations.

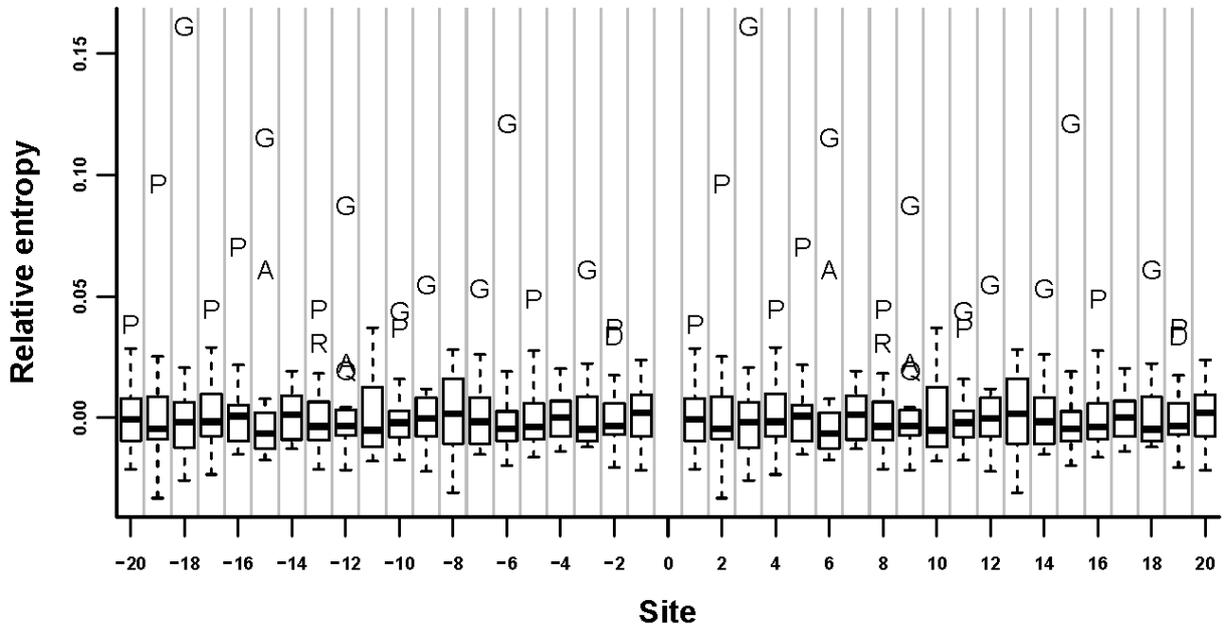
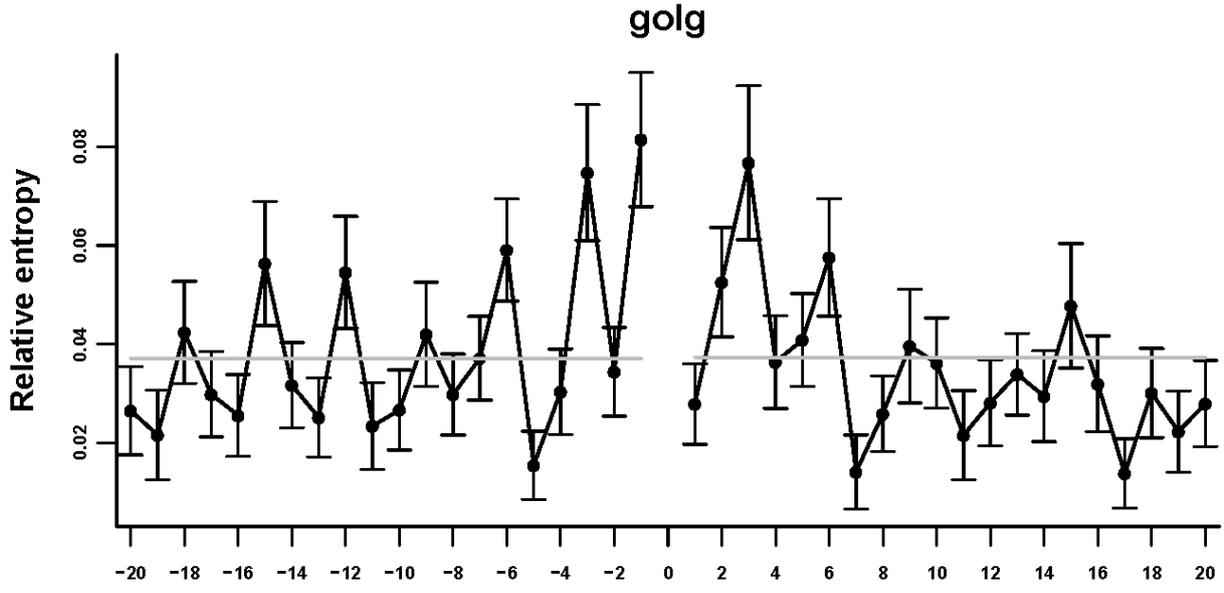




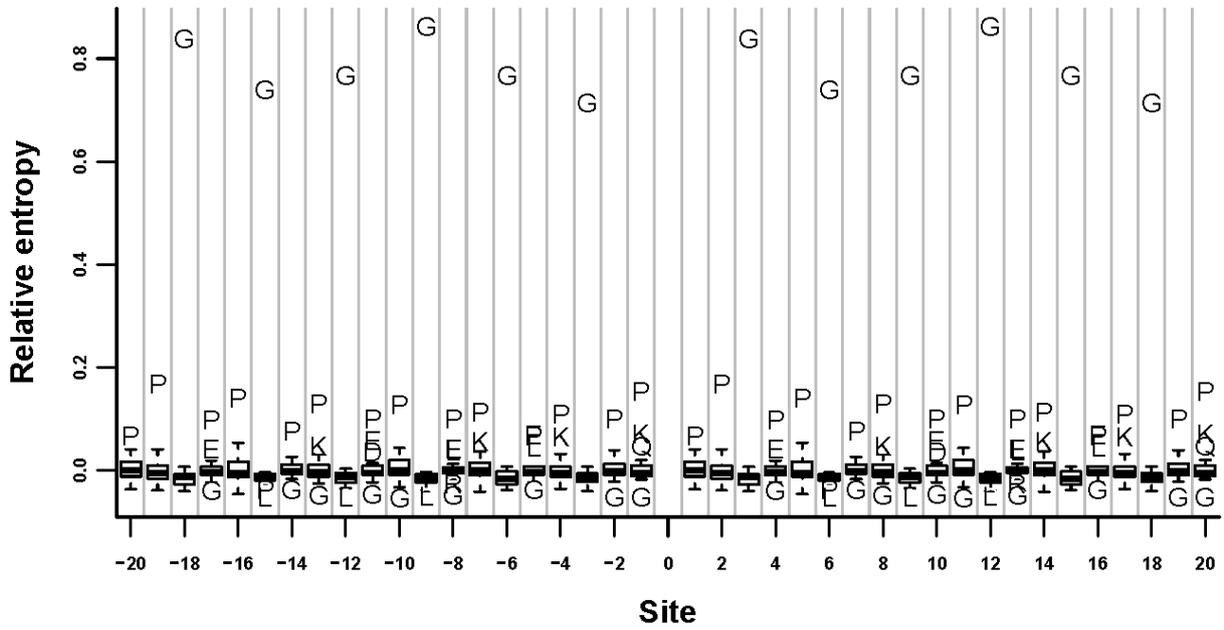
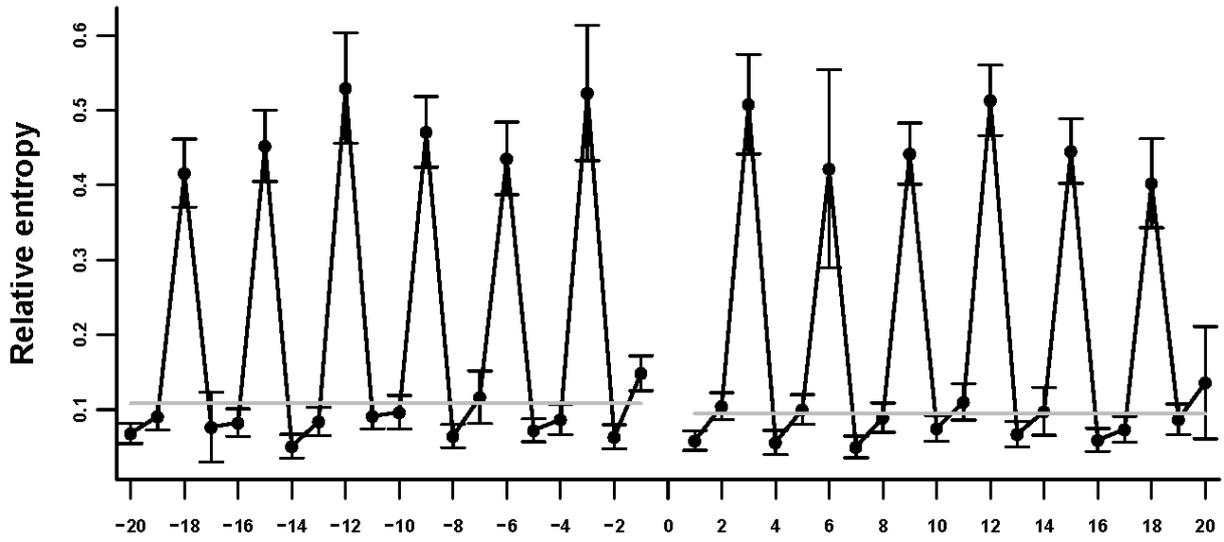
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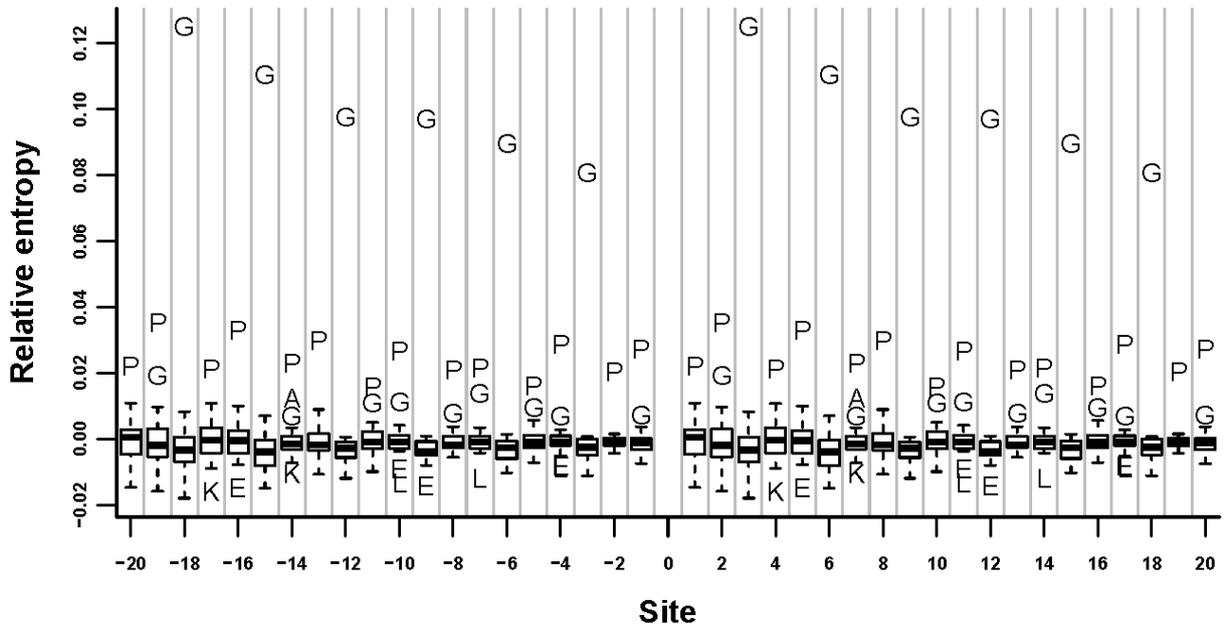
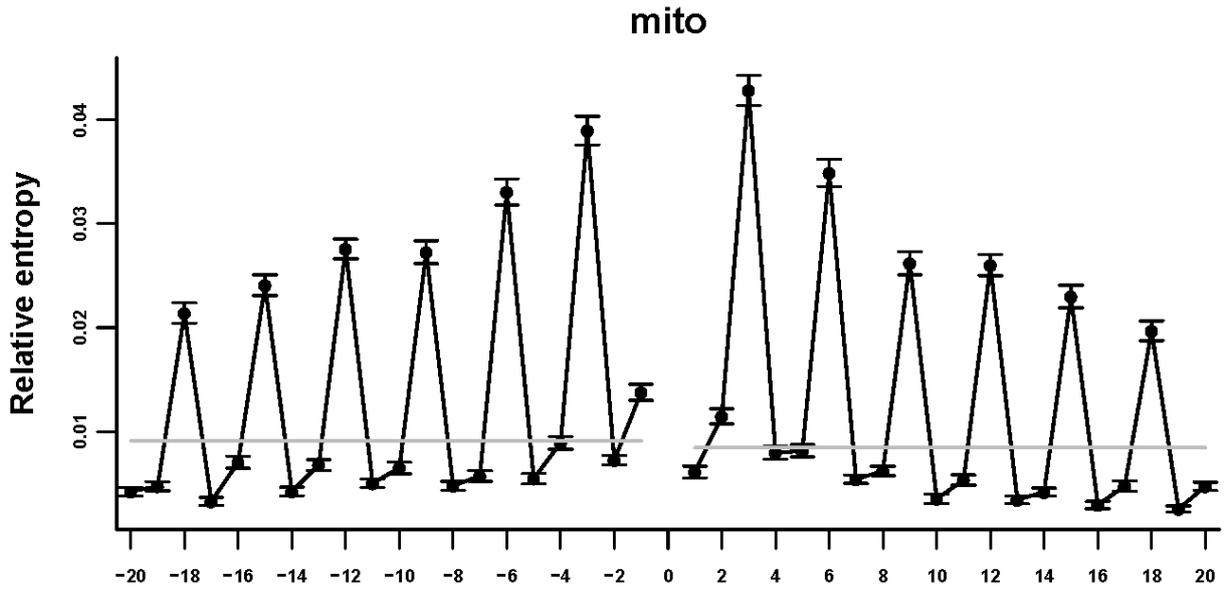


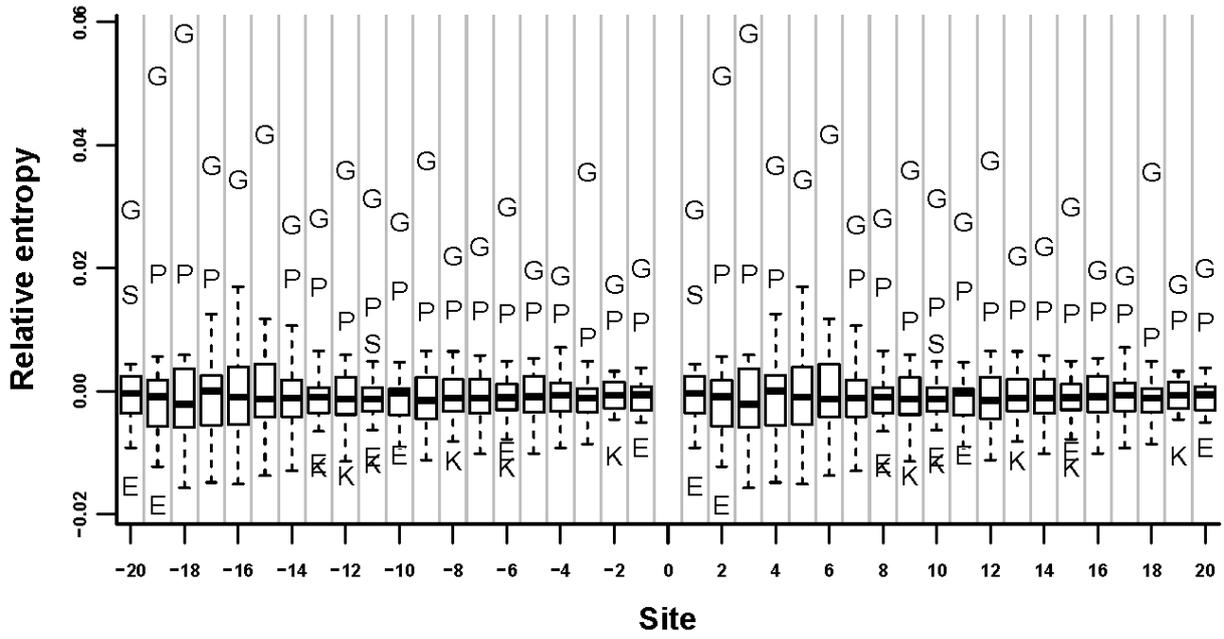
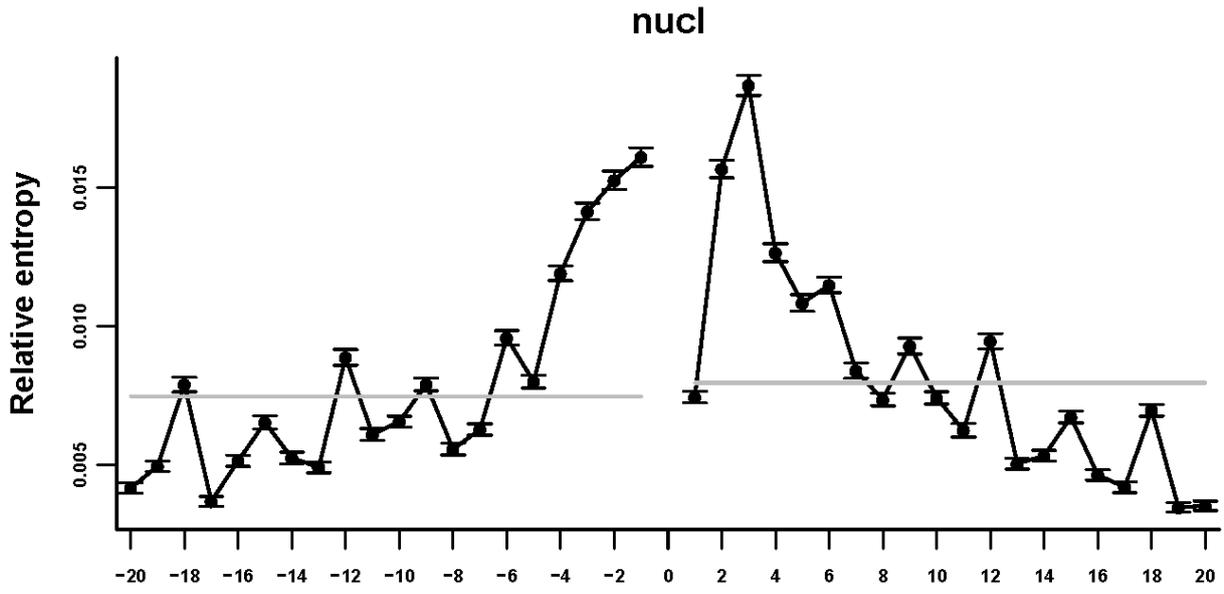


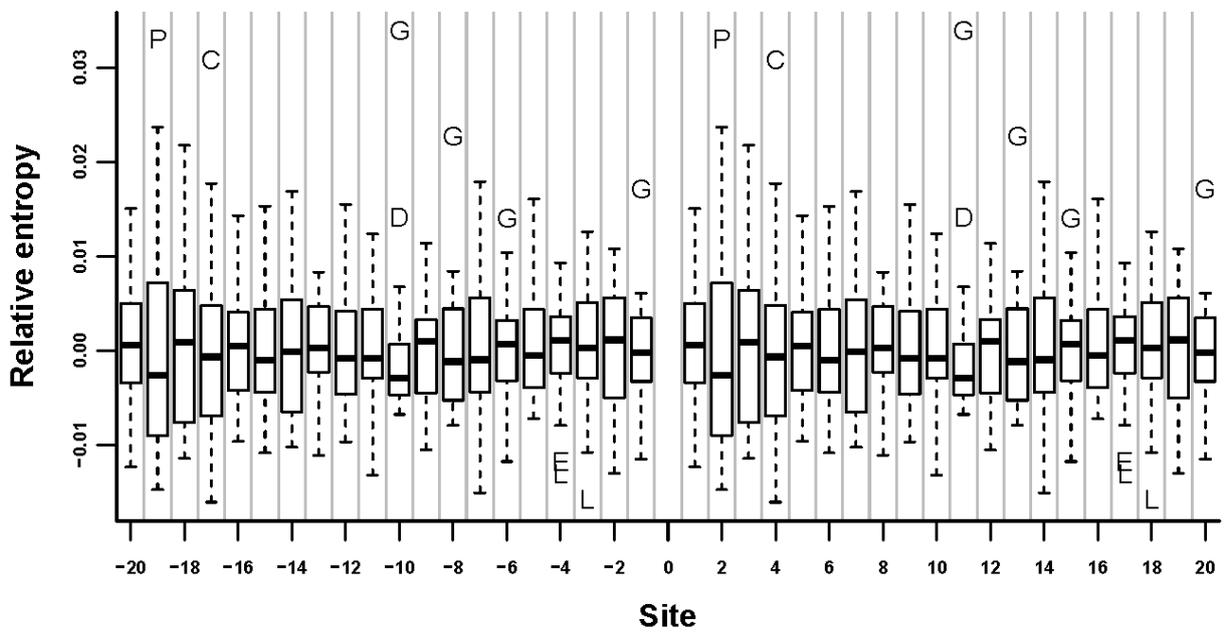
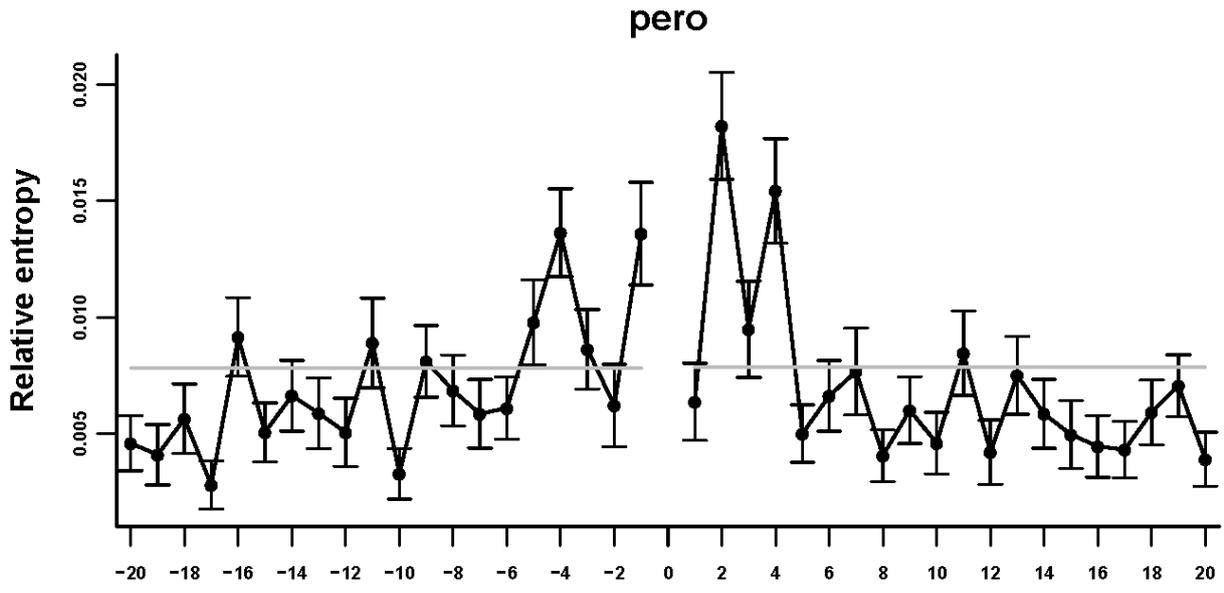


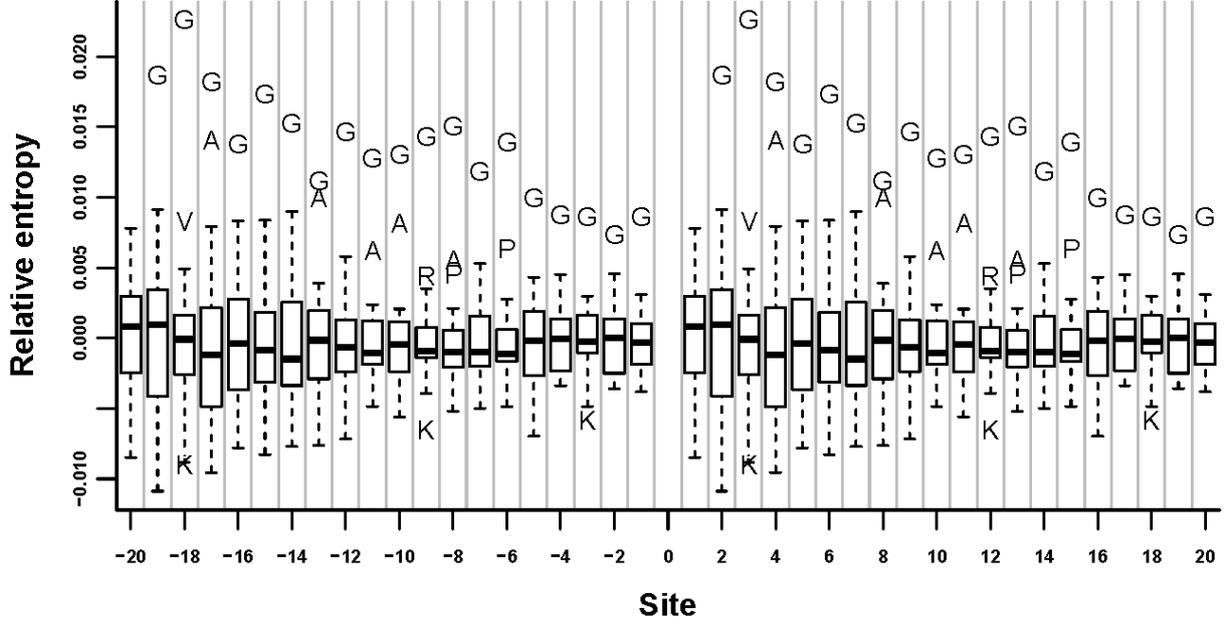
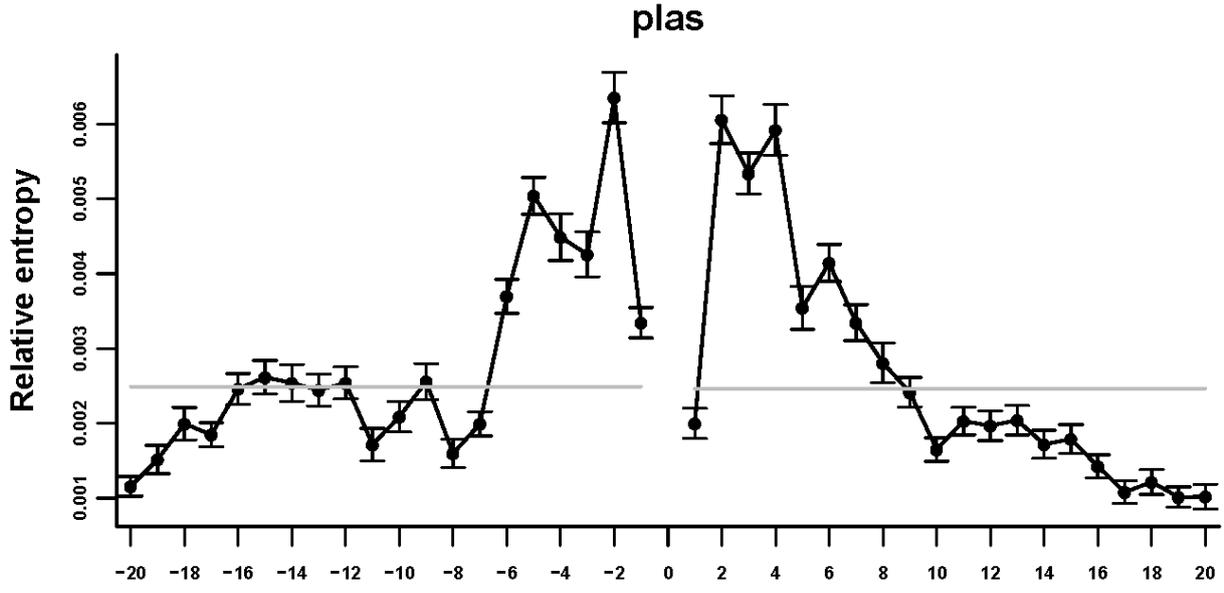
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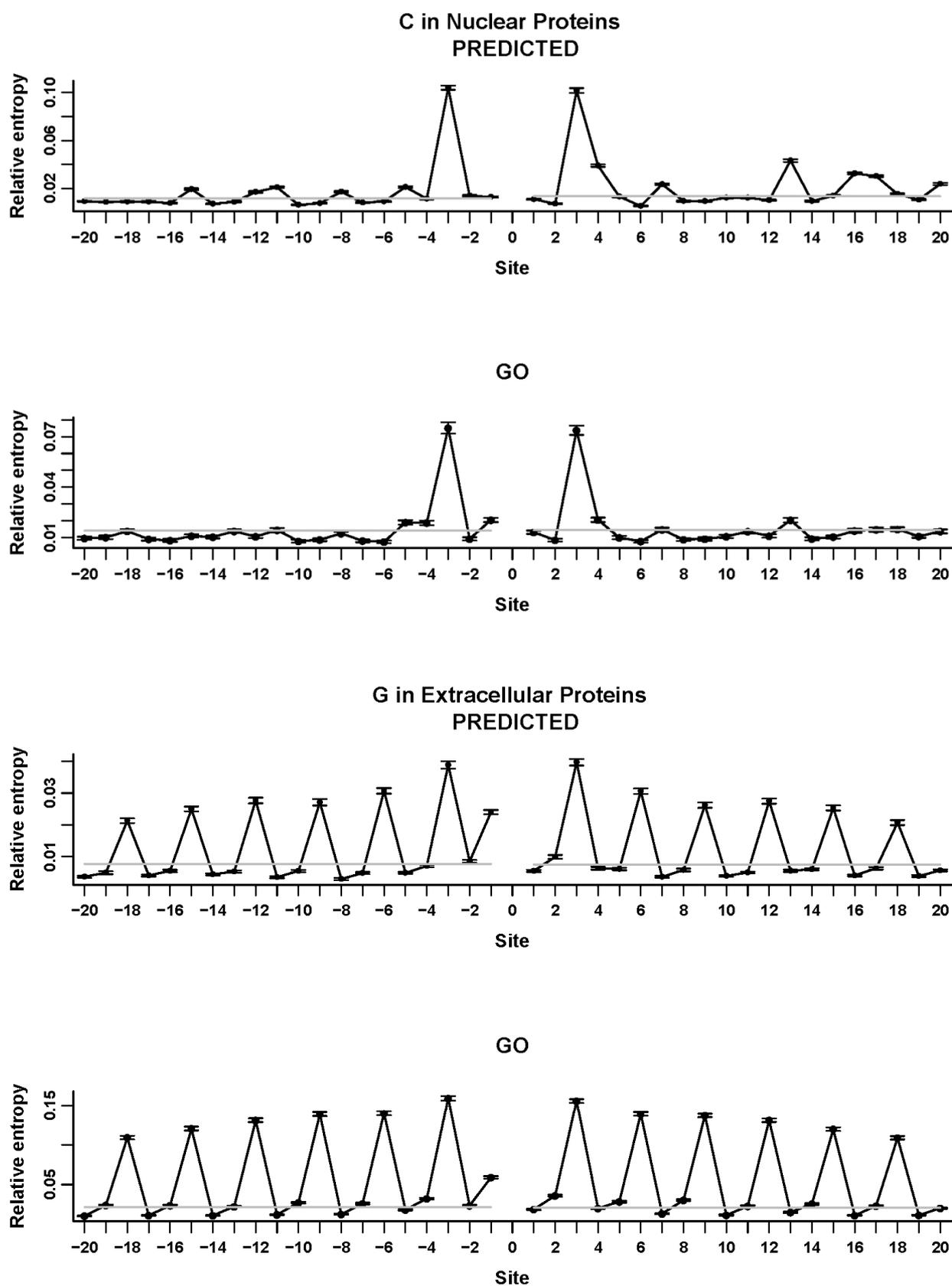








**Figure S11.** Comparison of the neighbor preference patterns of C and G in predicted and GO datasets.



**Figure S12.** The phylogenetic tree of human, mouse and dog.

