

LIST OF TABLES

2.1	The differences between ESM-2 model architecture with BERT-Base and BERT-Large	14
3.1	The details of the parameter exploration experiment	25
3.2	The summary of the drug and receptor representation method experiment .	26
3.3	The summary of the interaction modeling experiment	26
3.4	The summary of the method comparison experiment	27
3.5	The four examples of data for calculating CI	28
3.6	The four examples of data for calculating CI with pair (a,b) that satisfy $(y_a > y_b)$	28
3.7	The four examples of data for calculating CI with their respective pairs (a,b) and $h(y'_a - y'_b)$ calculation	29
4.1	The evaluation results of the parameter exploration experiment on the Davis dataset	31
4.2	The evaluation results of the parameter exploration experiment on the KIBA dataset	32
4.3	The evaluation results of the method comparison experiment on the Davis and KIBA dataset	39
A.1	Statistical descriptive in Davis dataset	49
A.2	Statistical descriptive in KIBA dataset	49