

## Supplementary figures

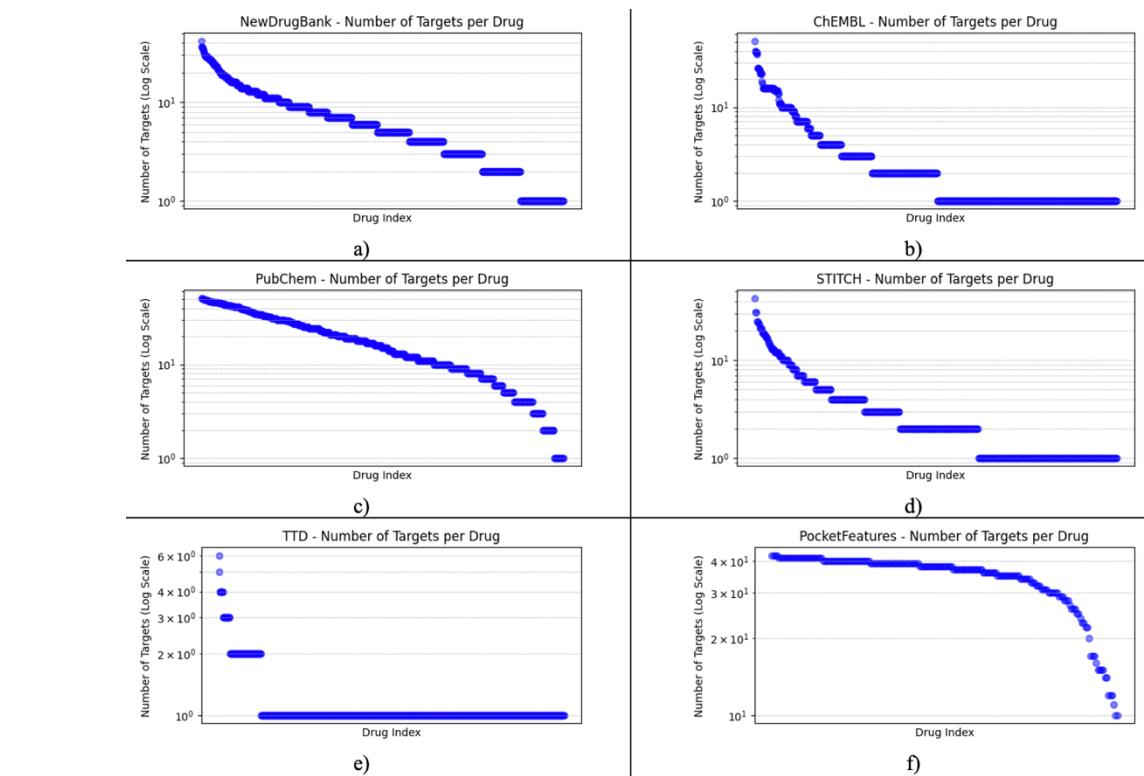


Figure S1. Scatter plots showing the number of targets per drug across six databases. The logarithmic scale reveals that most drugs interact with a few targets, indicating high selectivity, with a rapid decline in target numbers per drug.

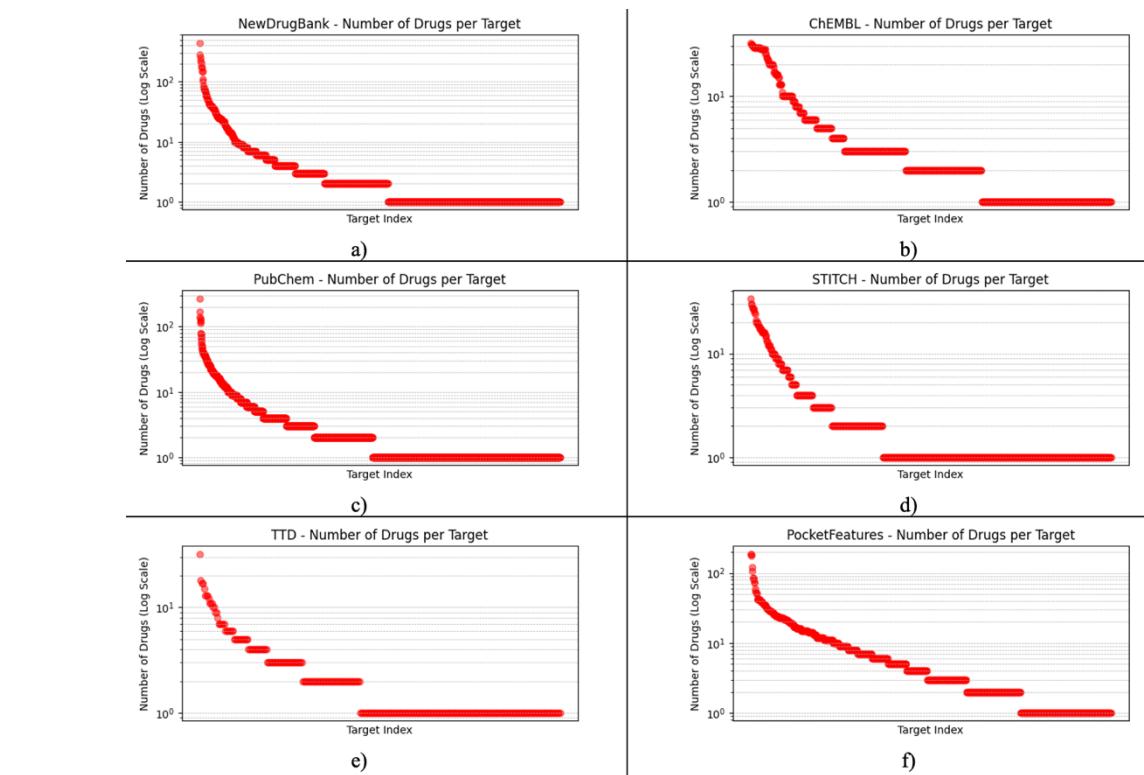
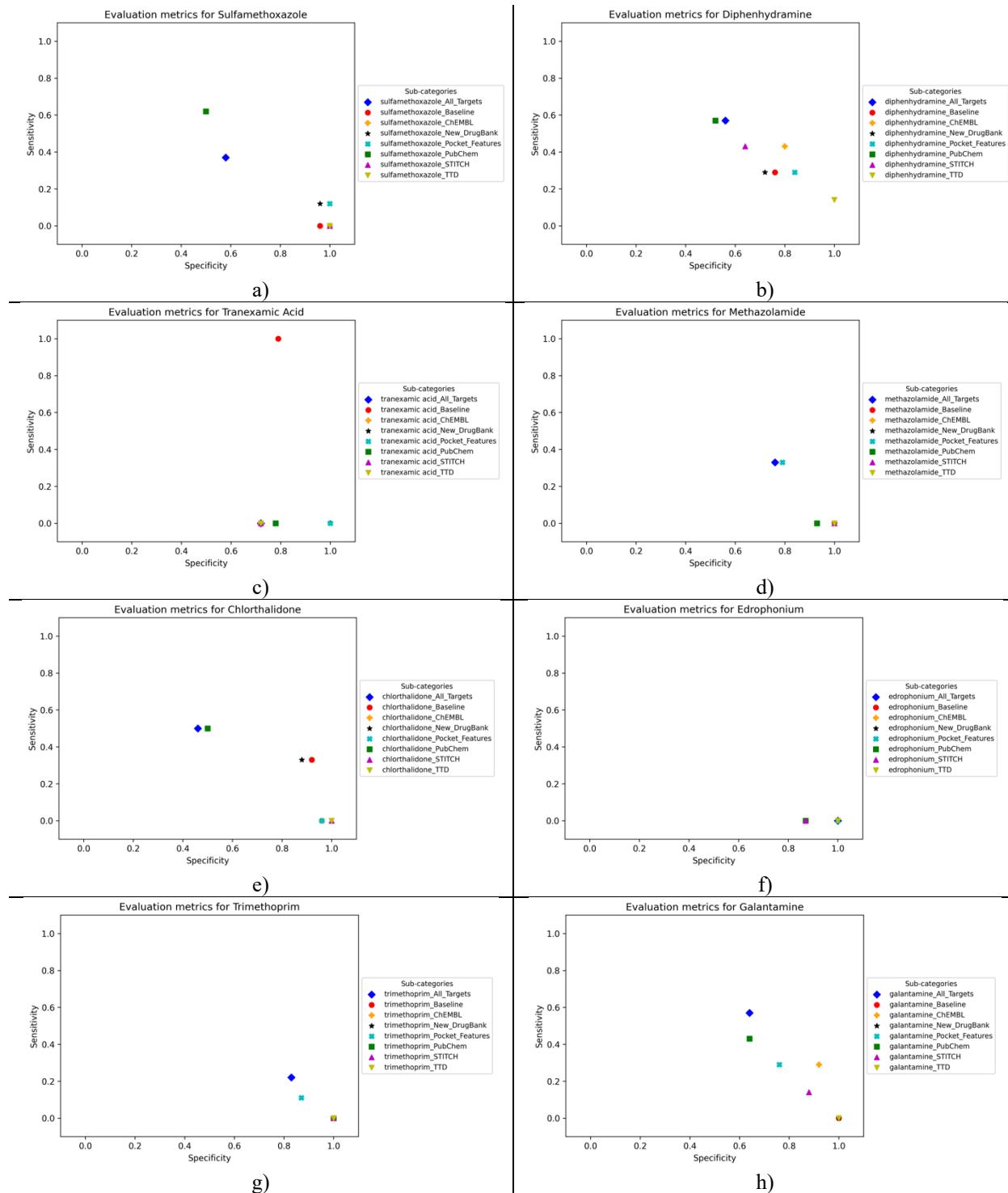
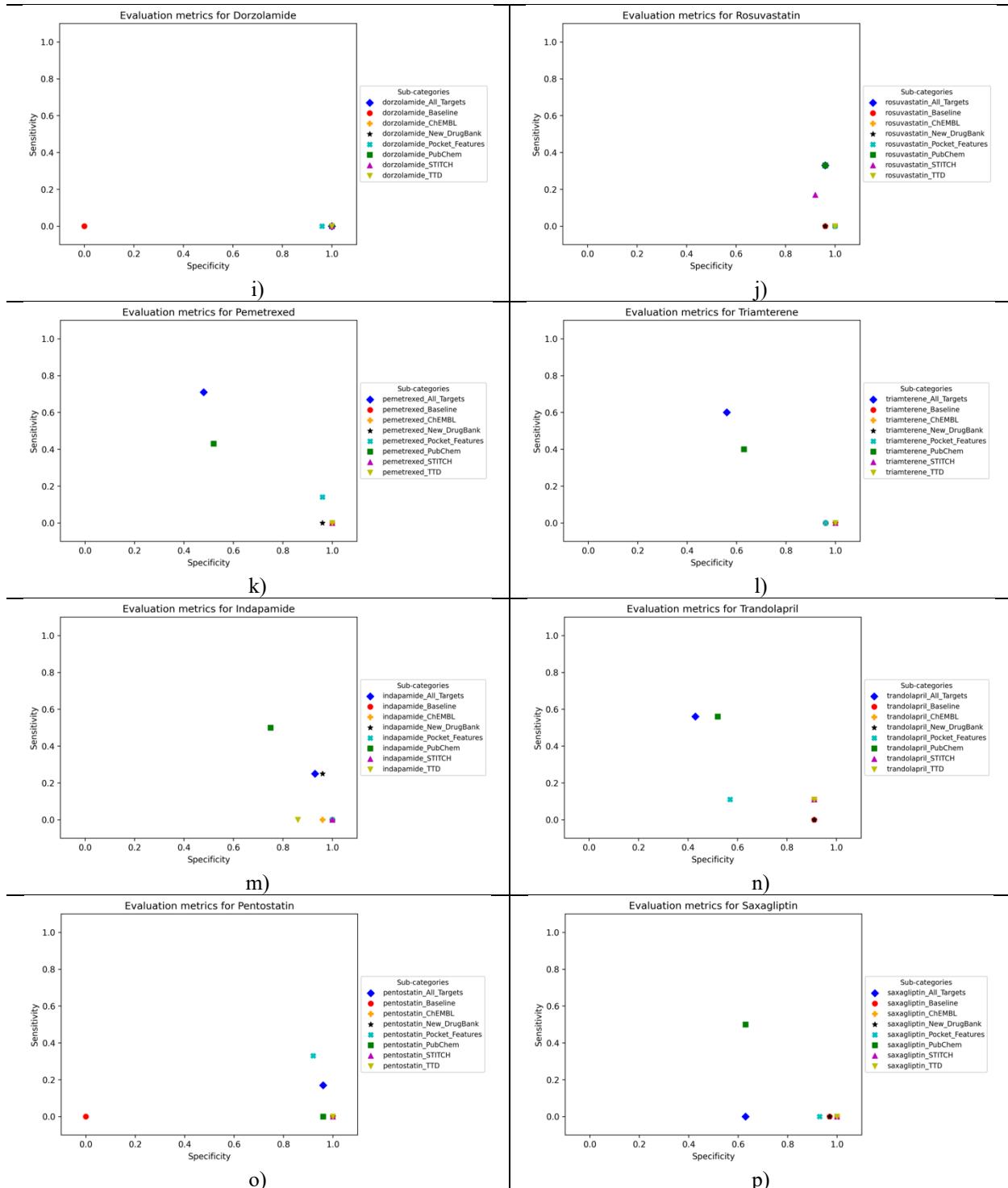
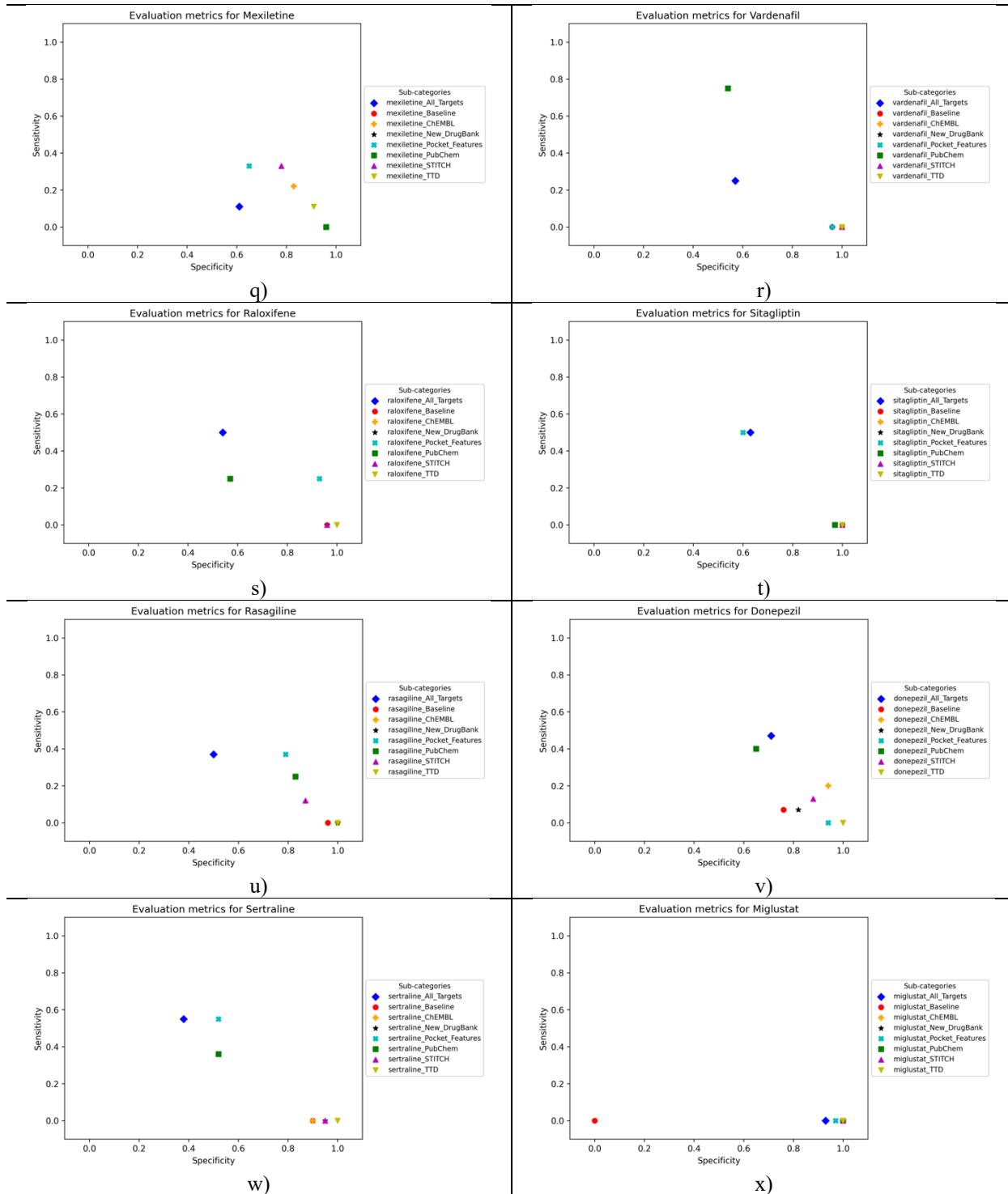


Figure S2. Scatter plots depicting the number of drugs per target across six databases. The logarithmic scale highlights that a few targets interact with many drugs, while most targets interact with fewer drugs, demonstrating target promiscuity and specialization.







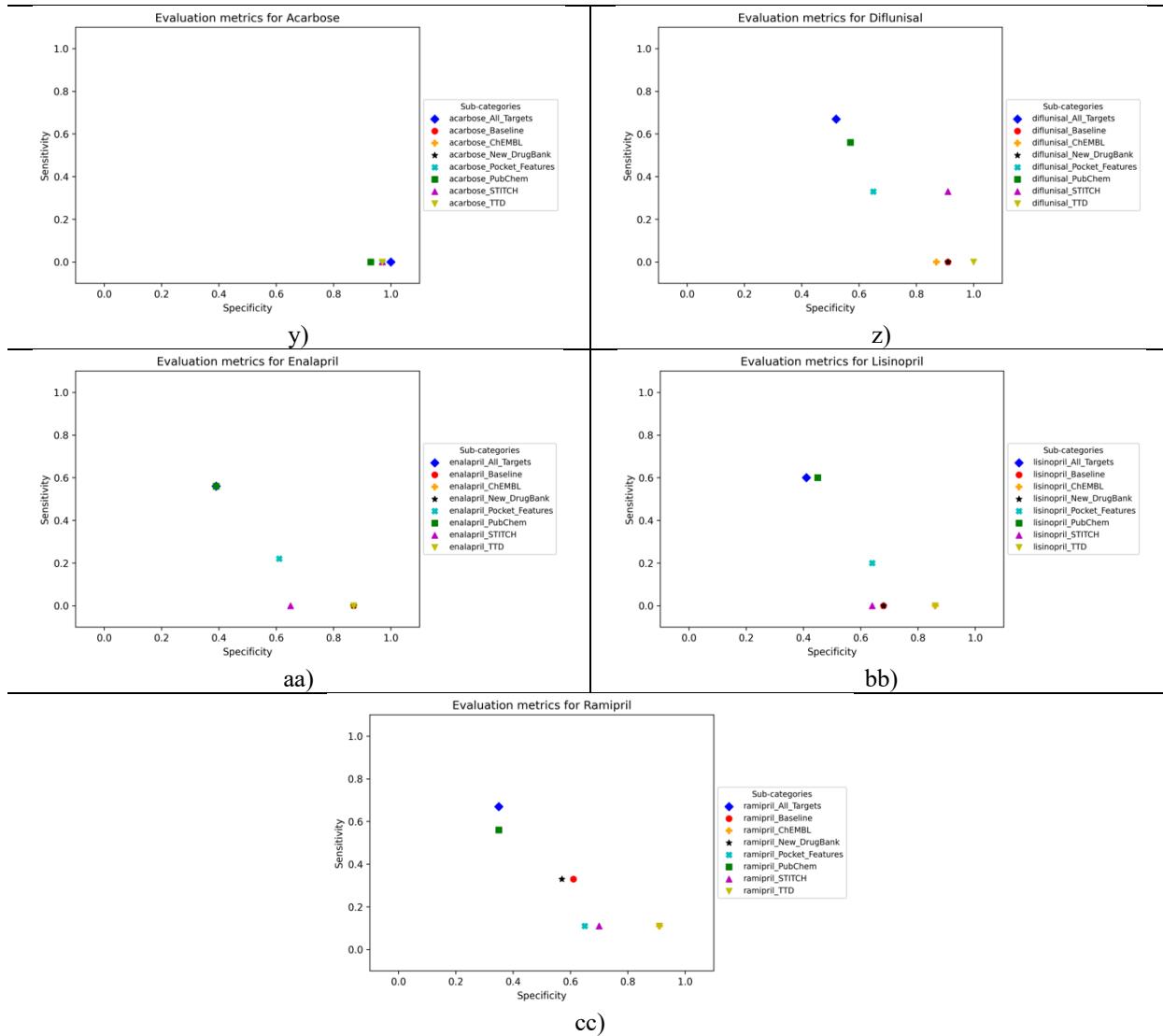
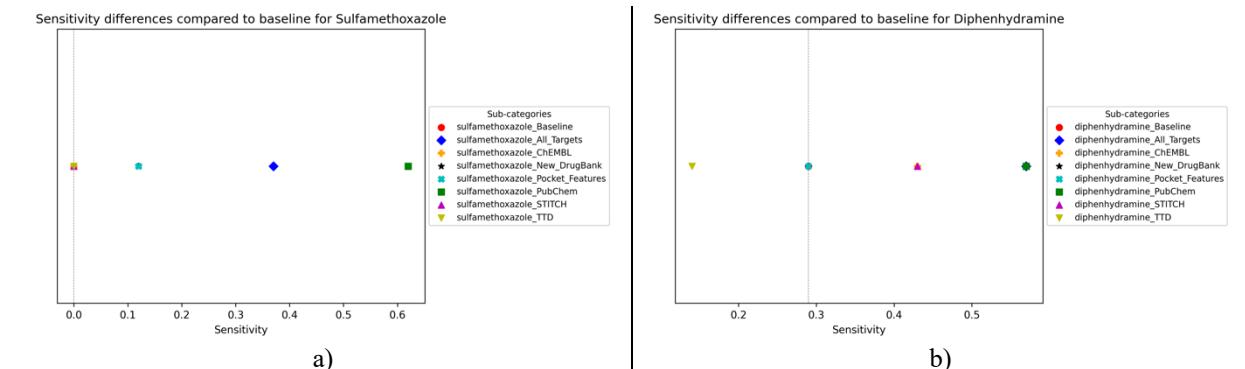
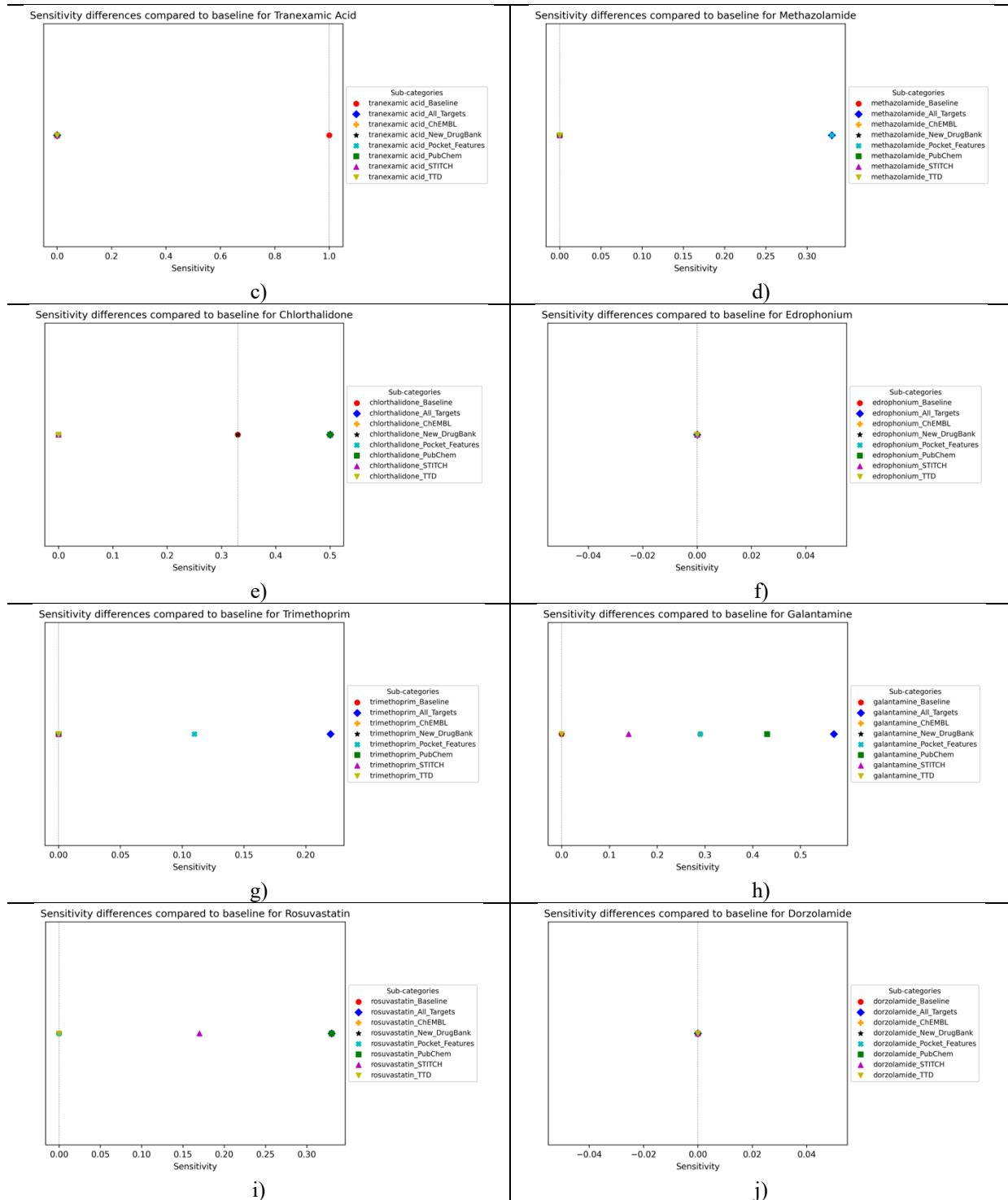
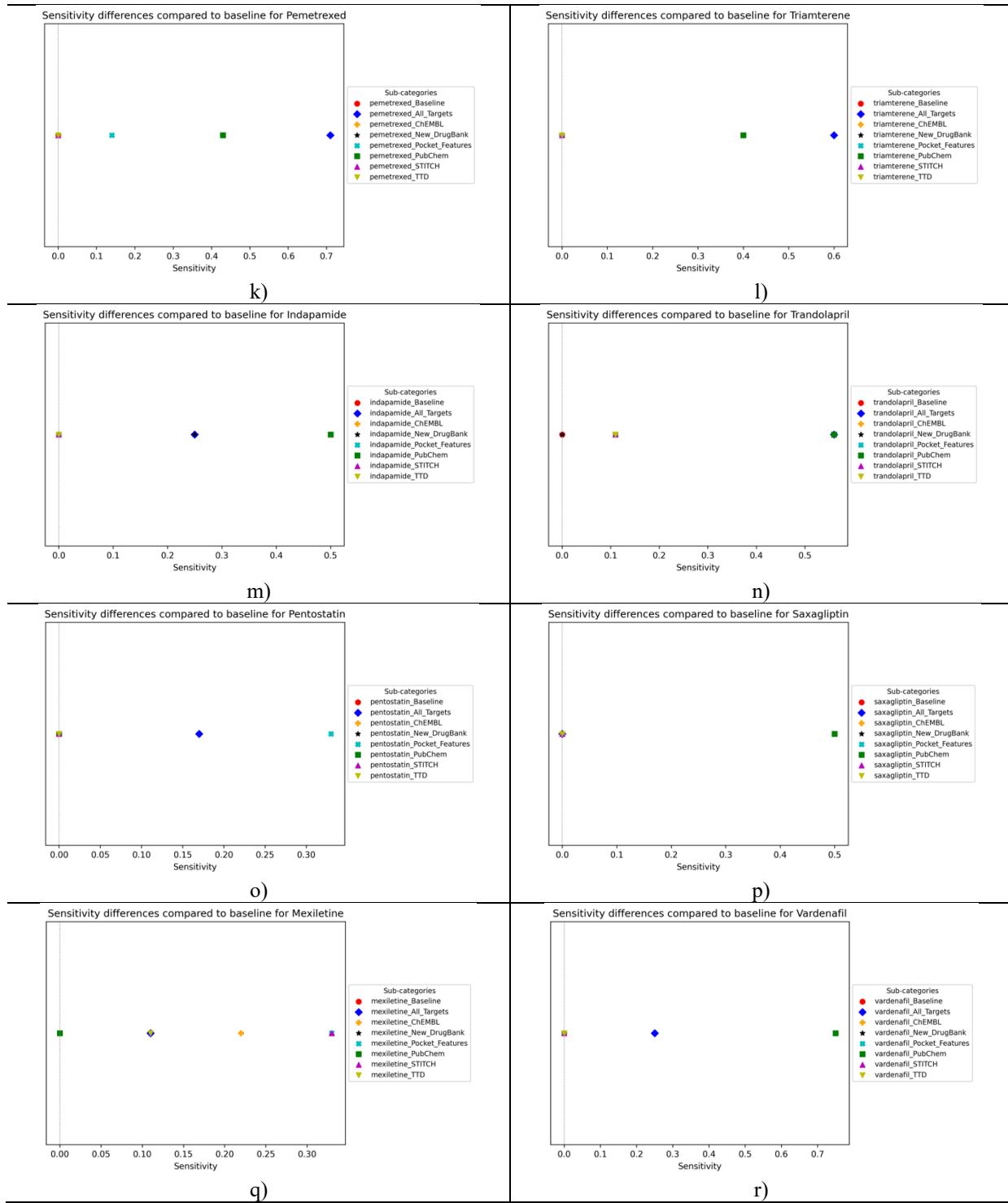
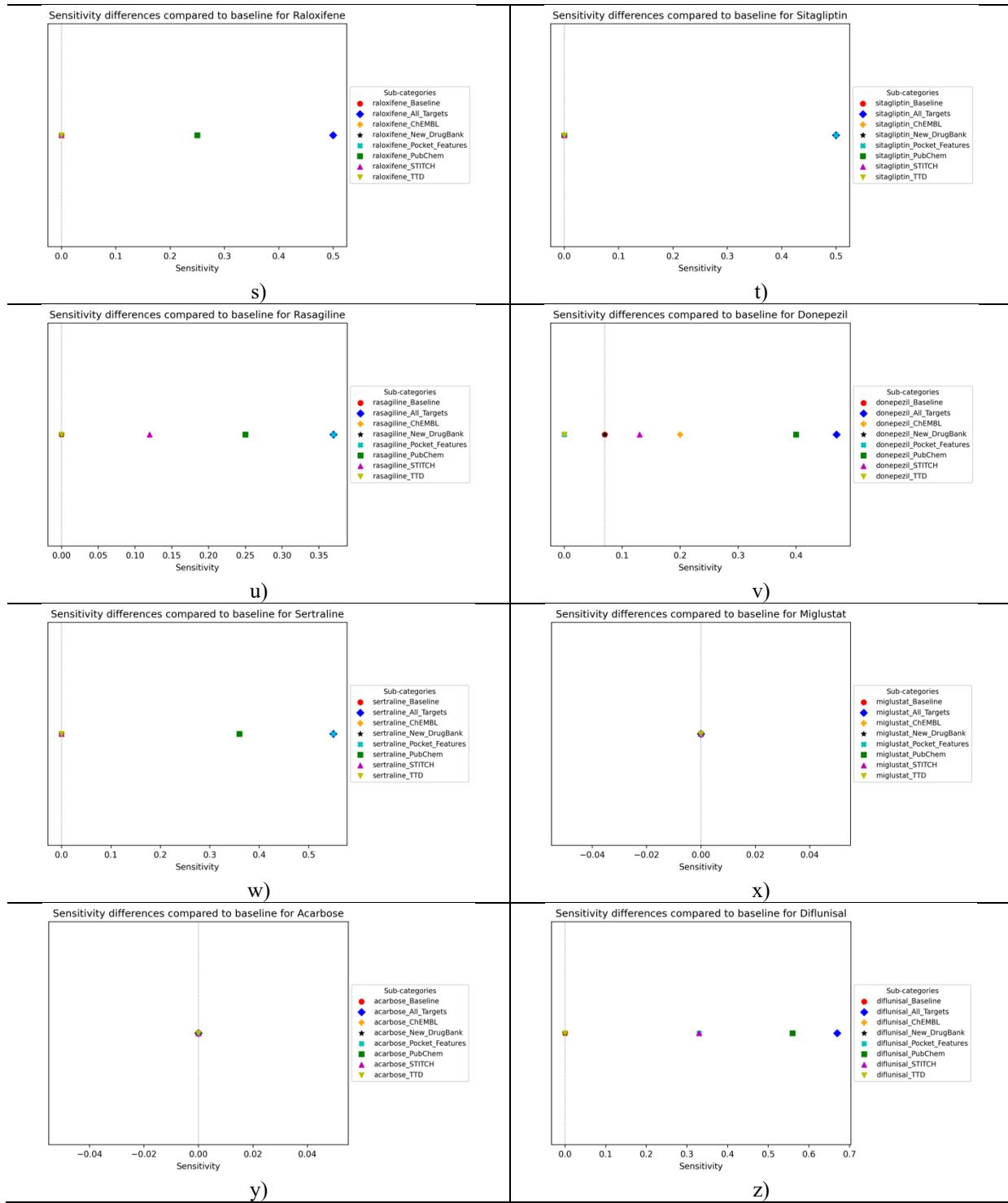


Figure S3. Evaluation (sensitivity-specificity) plots for all selected drugs across all selected databases and the baseline.









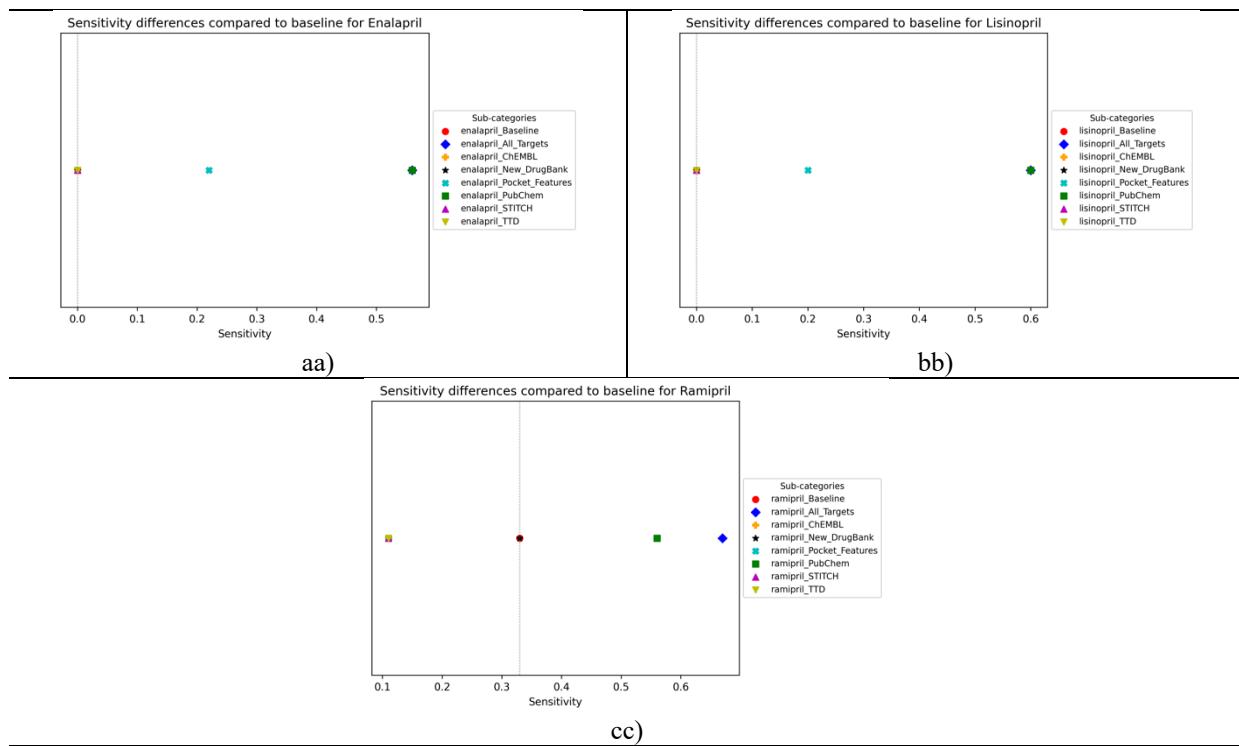
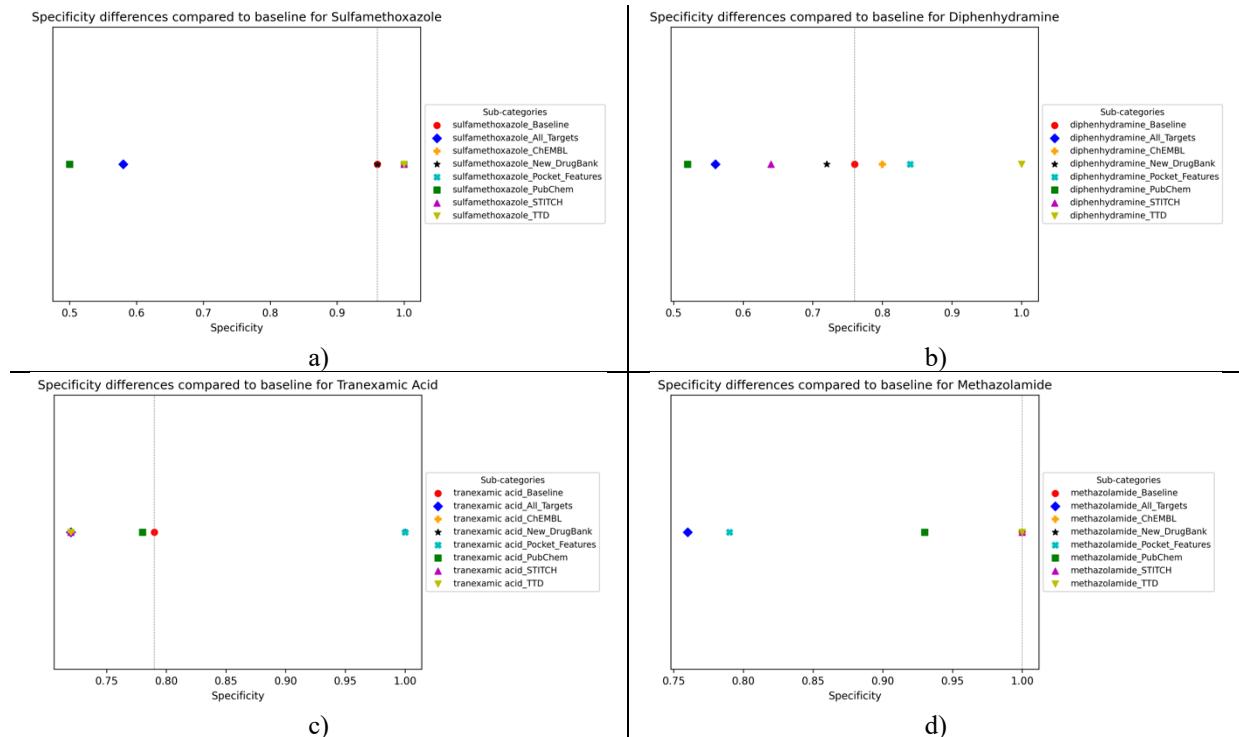
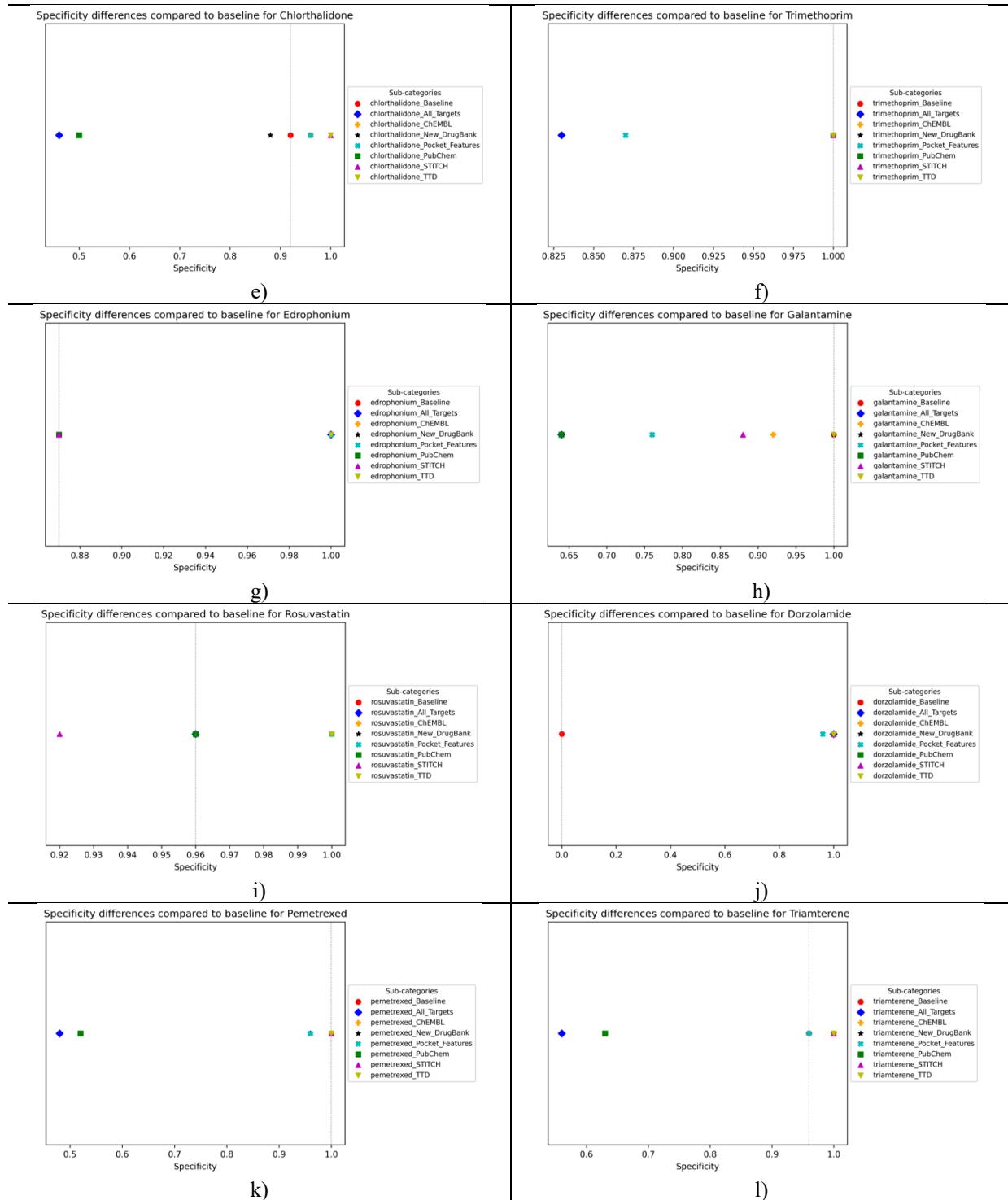
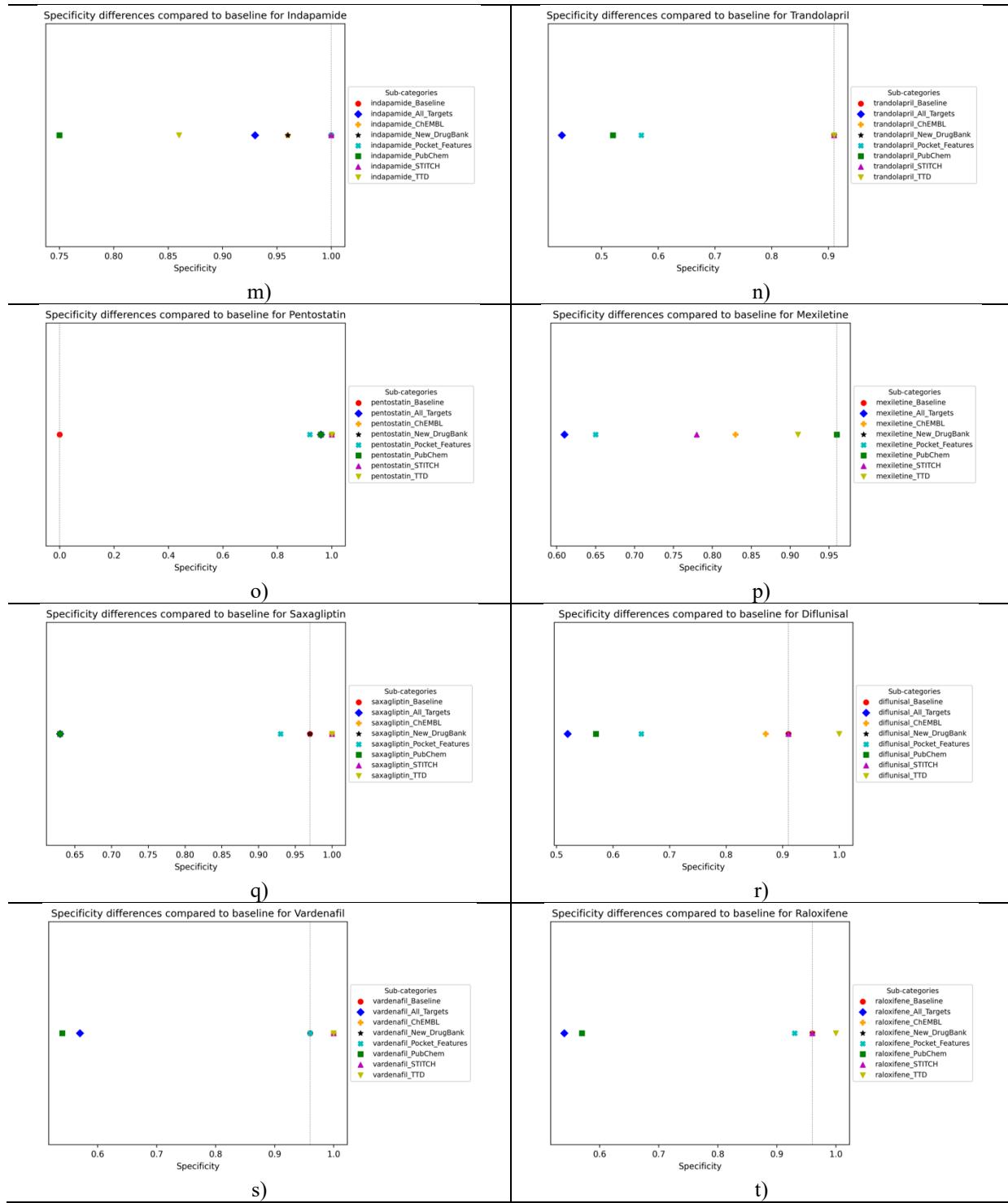
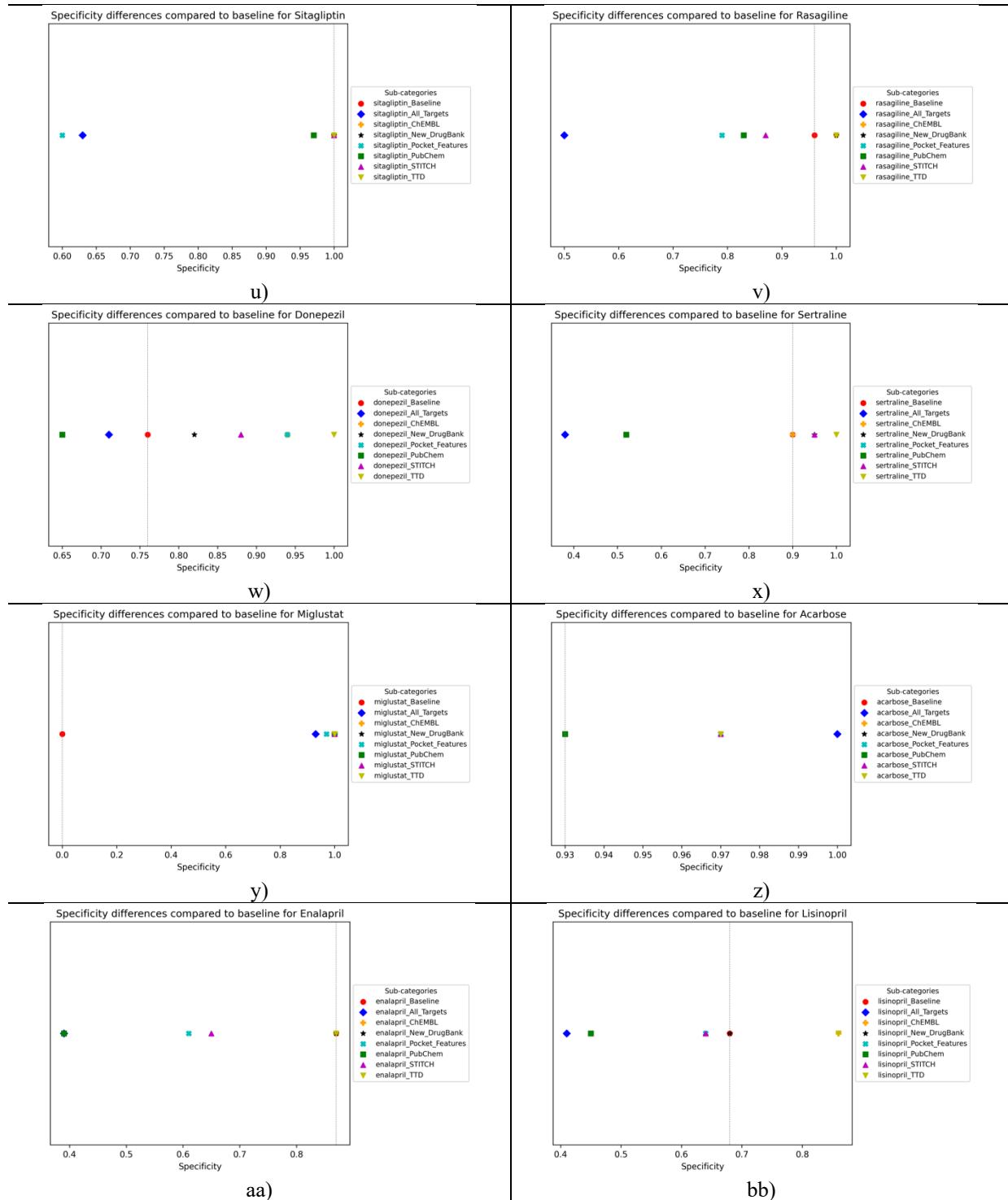


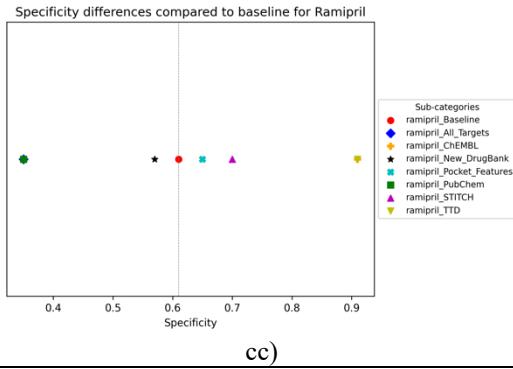
Figure S4. Comparisons of sensitivities for all selected drugs across all selected databases and the baseline.





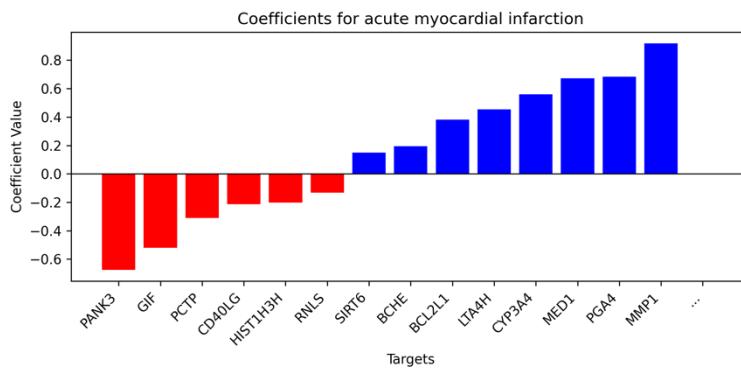




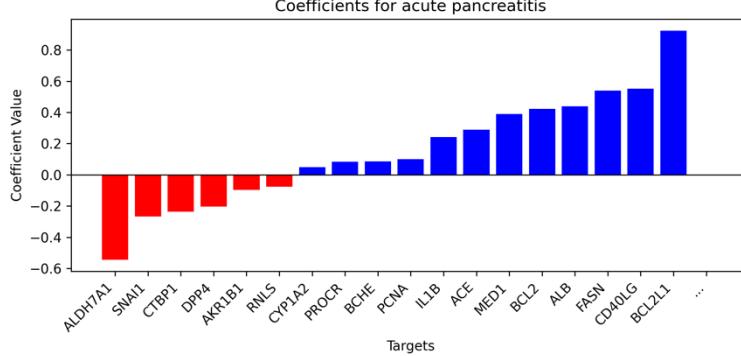


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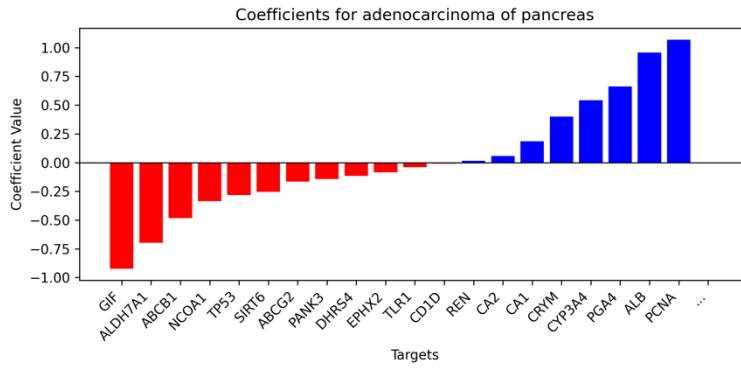
Figure S5. Comparisons of specificities for all selected drugs across all selected databases and the baseline.



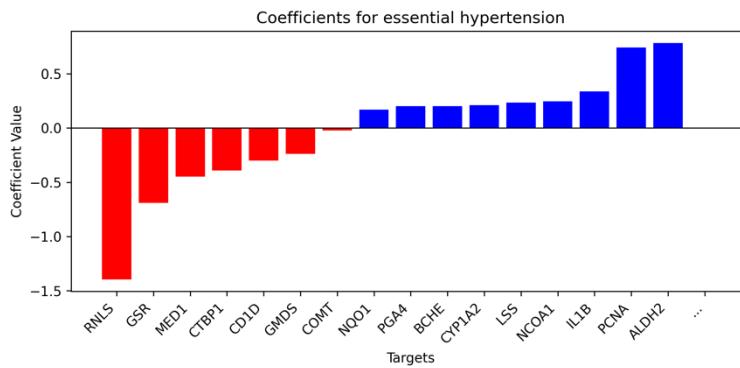
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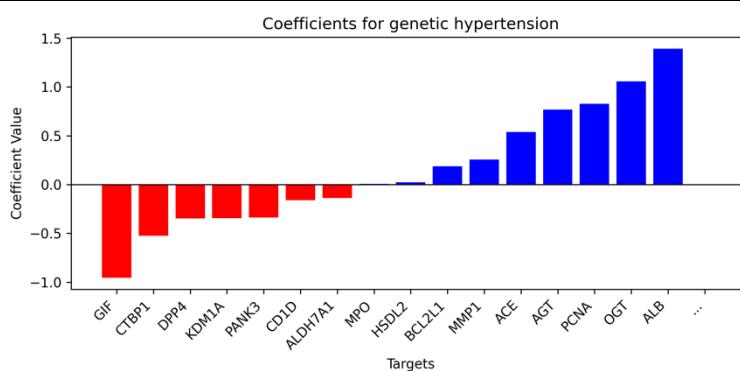
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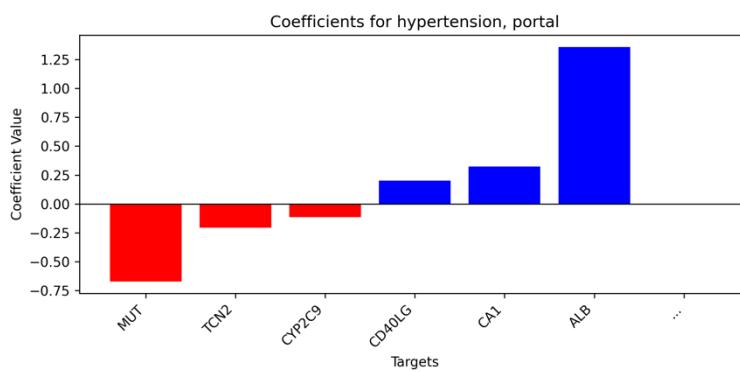
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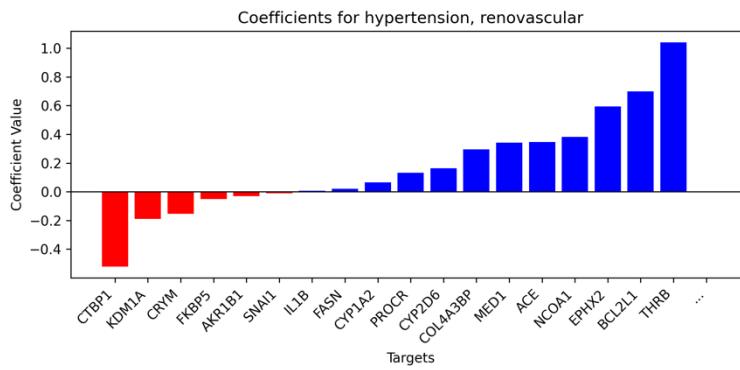
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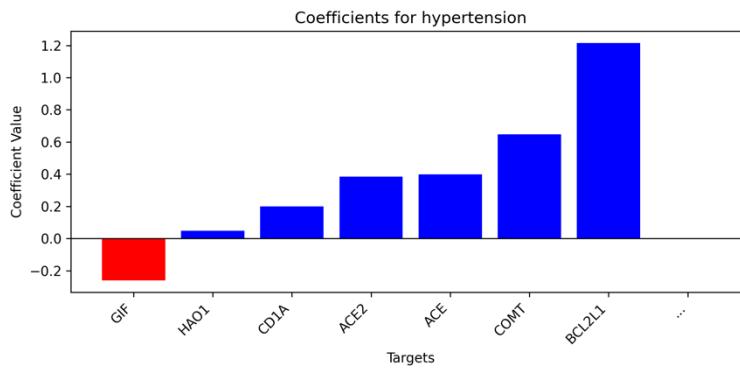
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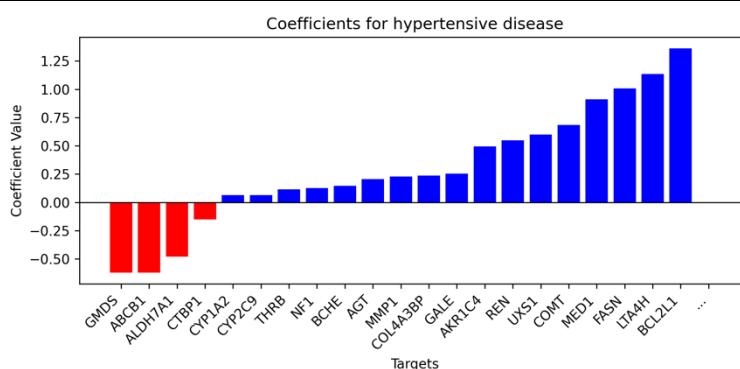
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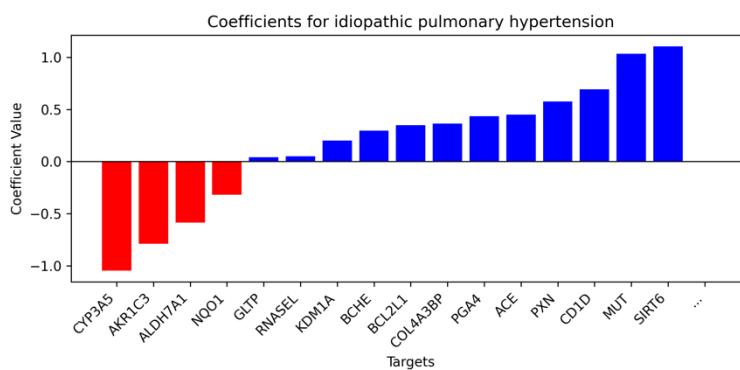
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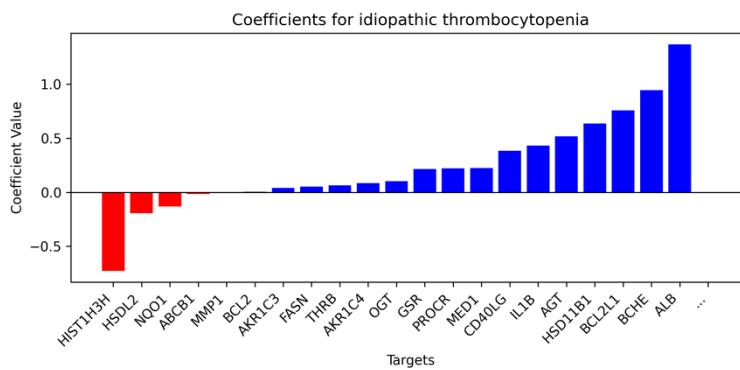
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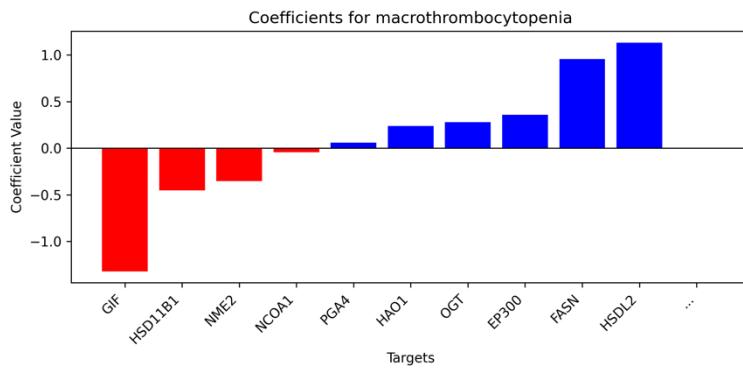
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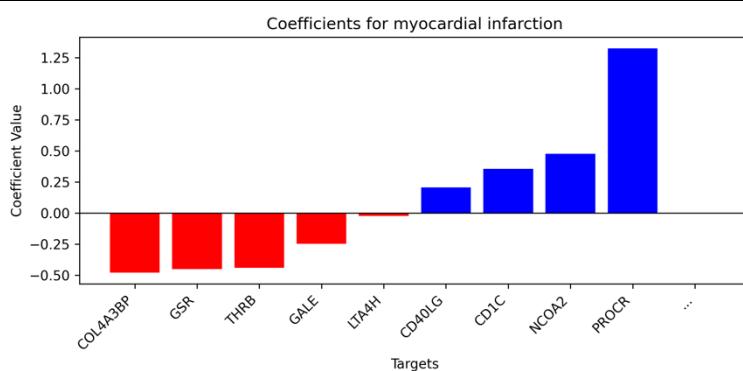
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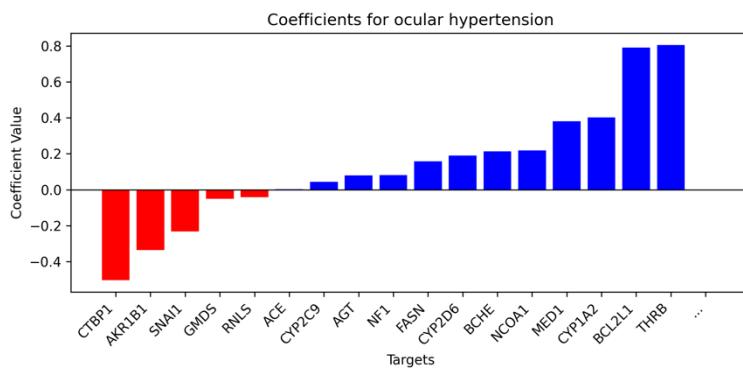
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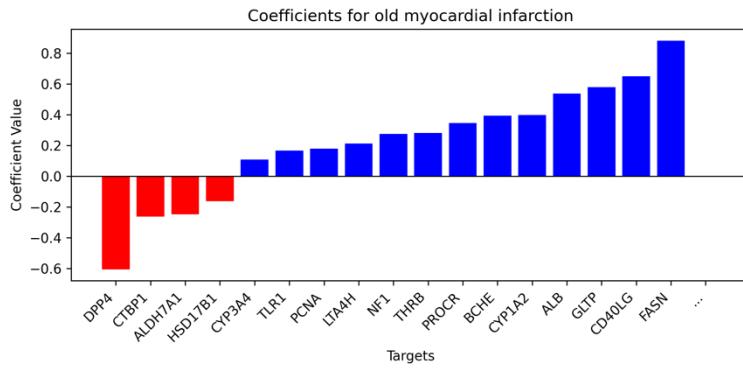
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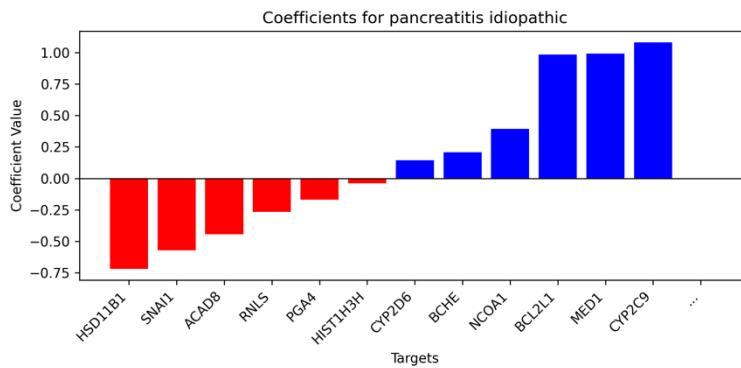
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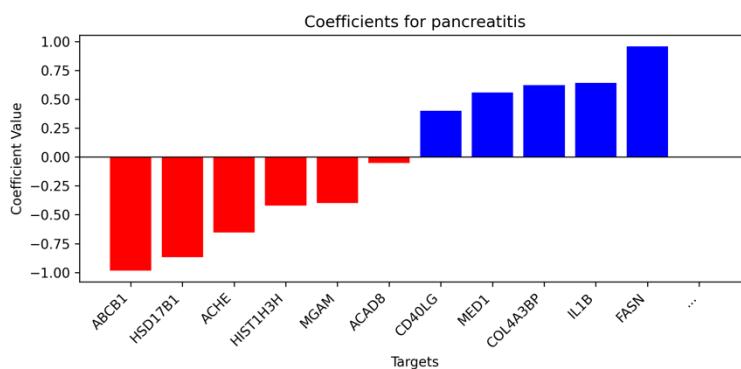
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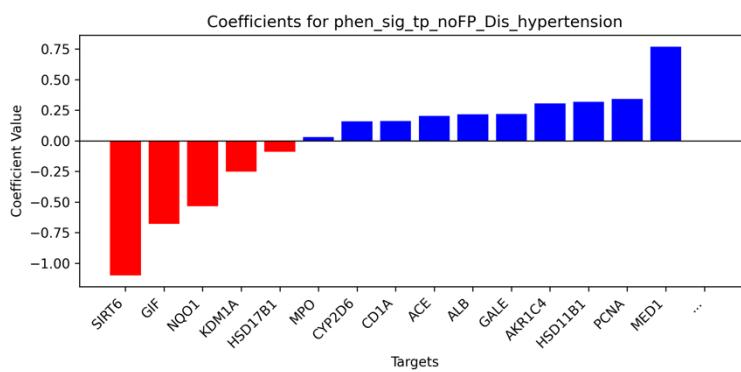
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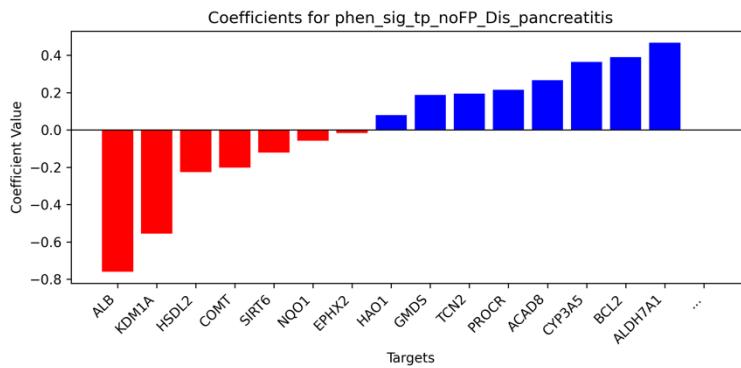
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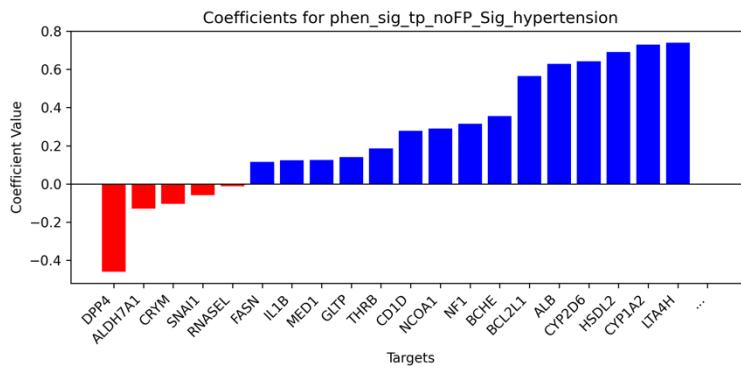
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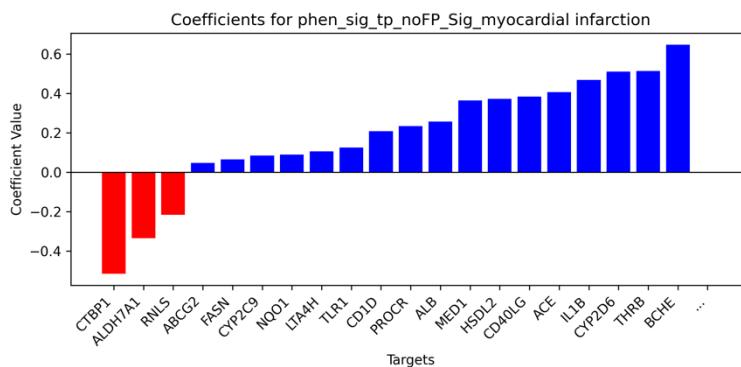
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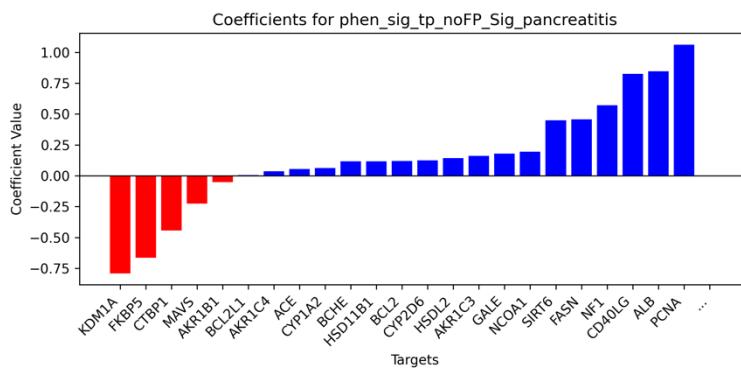
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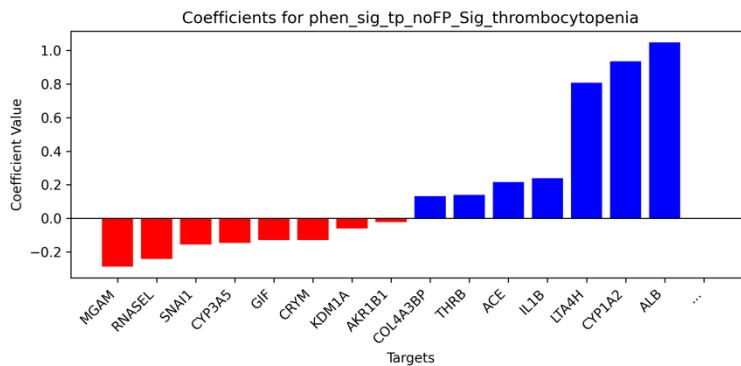
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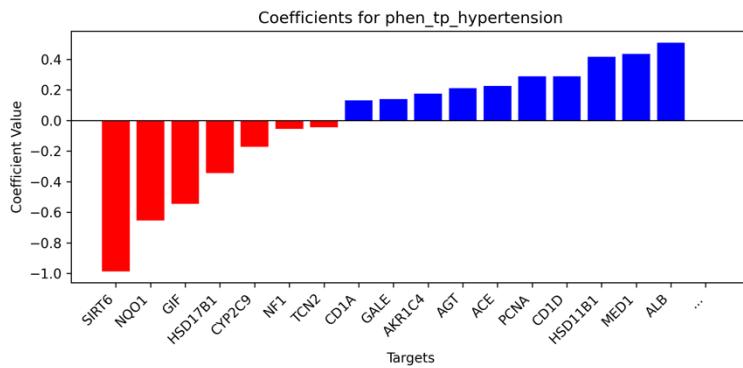
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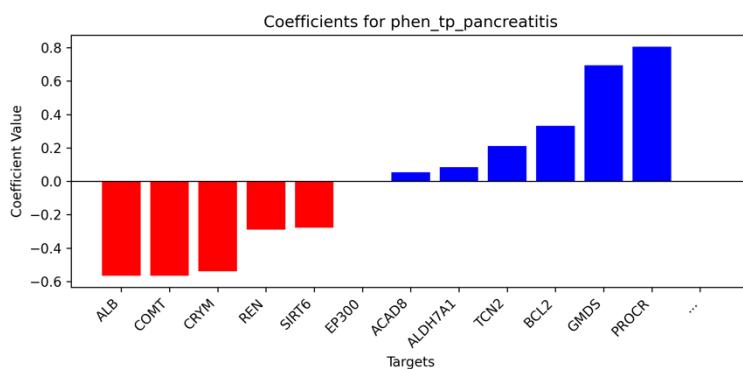
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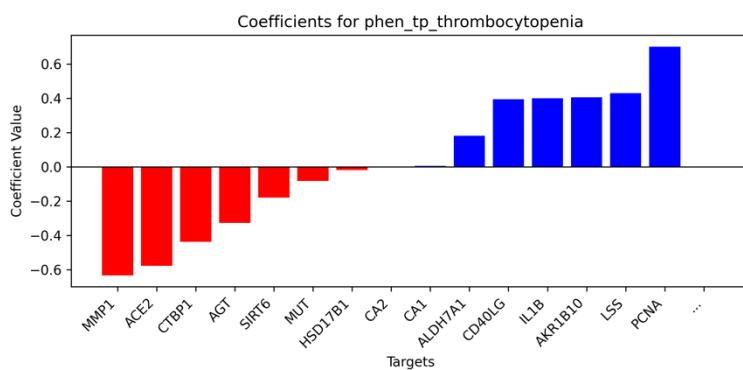
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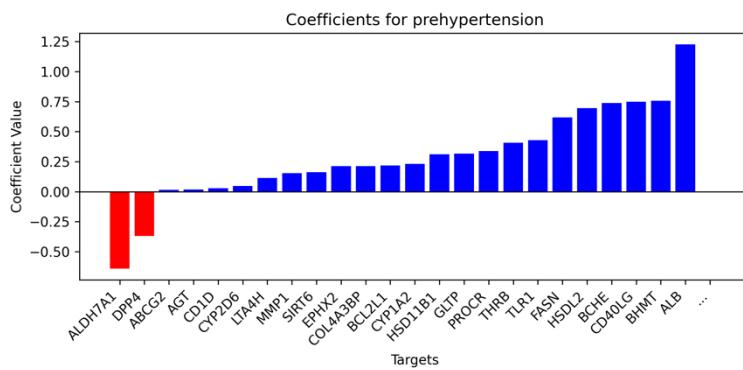
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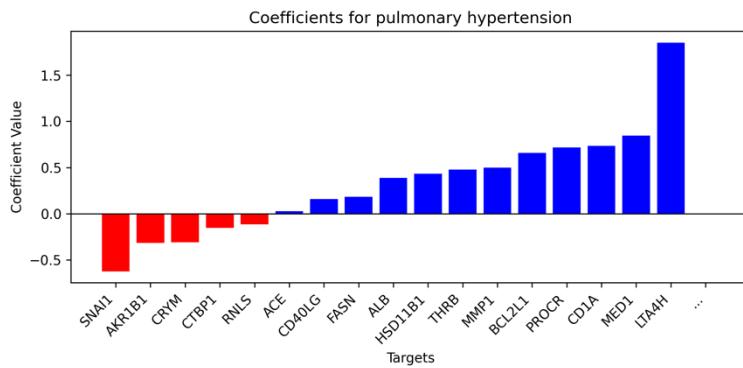
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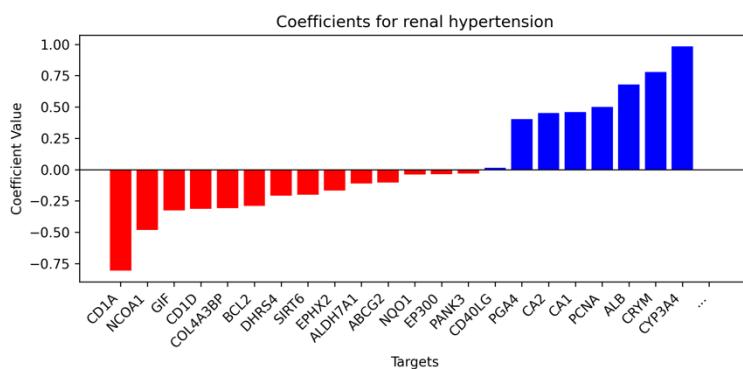
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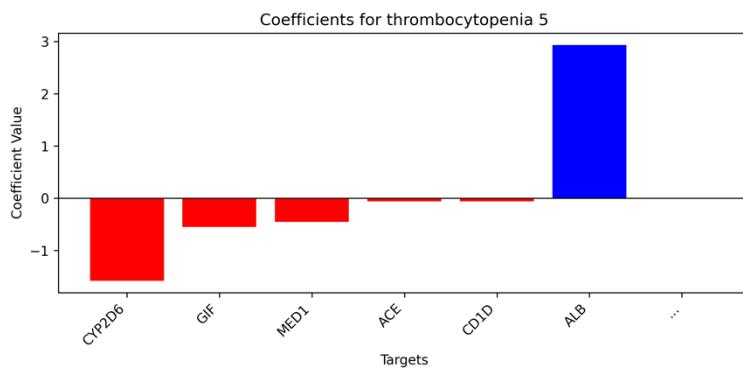
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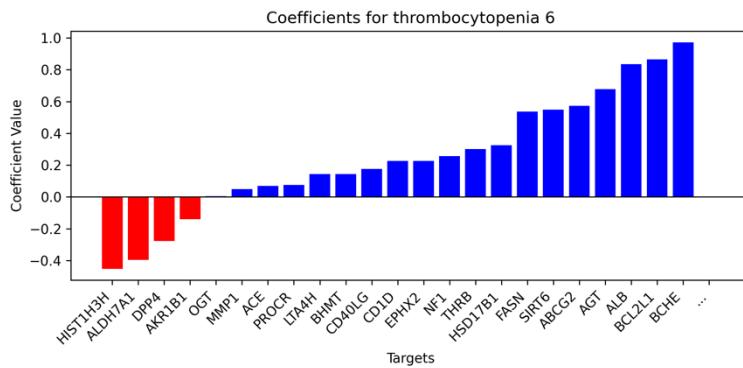
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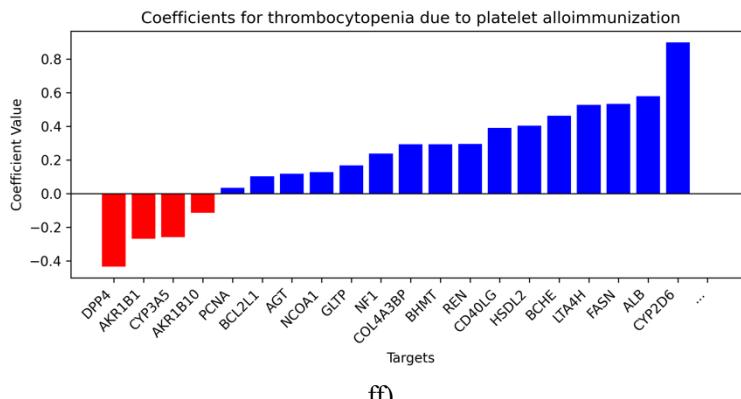
cc)



dd)



ee)



ff)

Figure S6. The logistic regression coefficient plots for targets associated with all 32 phenotypes in the analysis.

Positive coefficients (blue bars) indicate targets that have a positive association with prehypertension, while negative coefficients (red bars) indicate targets with an inverse relationship. The ellipsis (“...”) at the end of the x-axis signifies the presence of additional targets with zero coefficients that are not displayed for readability.