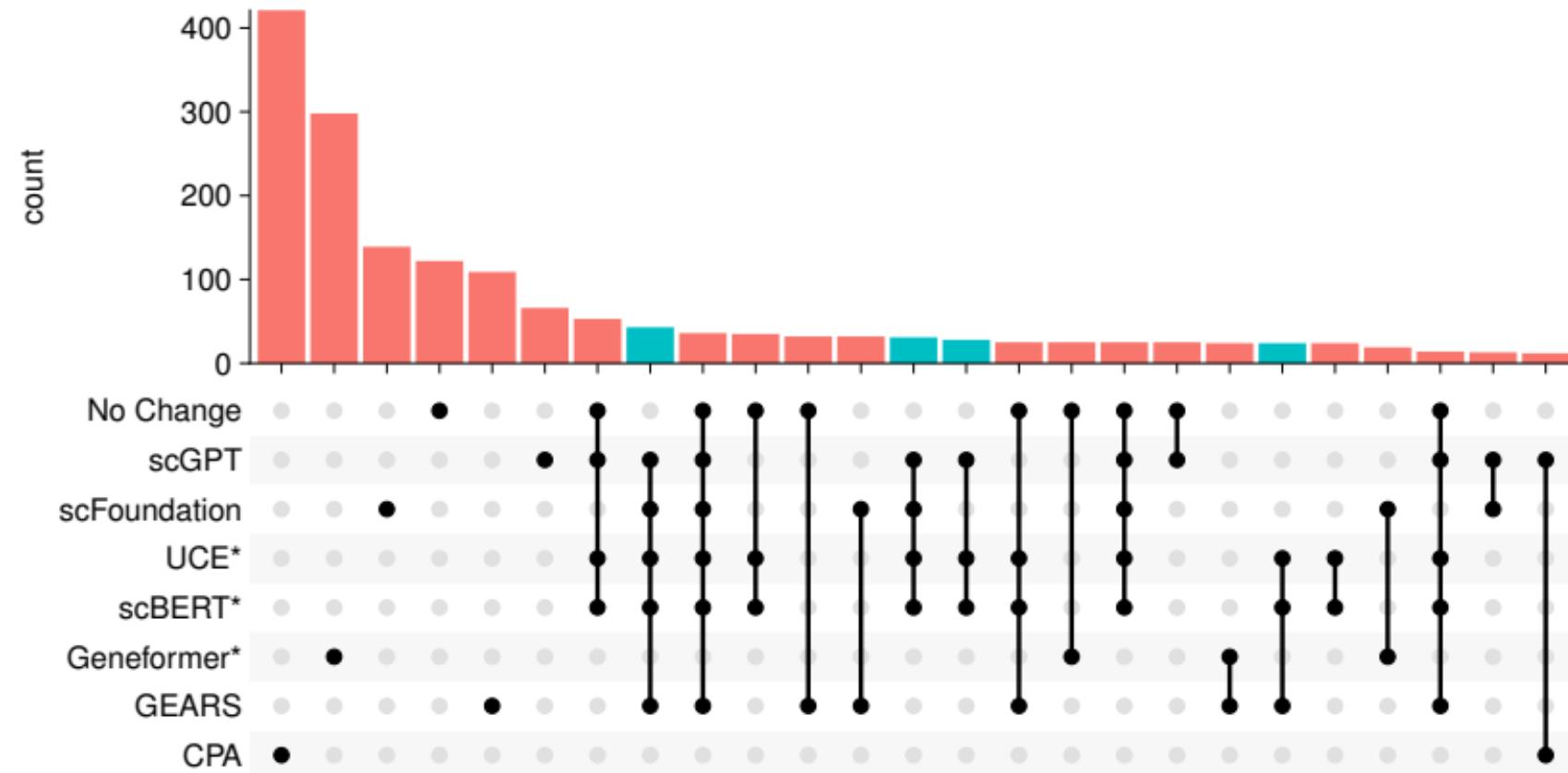


### (A) Overlap of interaction predictions

Set of predictions where at least 3 DL tools predict an interaction and *no change* does not (blue bars)



### (B) Deep Learning interactions not found by *no change*

| Gene Name | n  | Perturbation  | n  |
|-----------|----|---------------|----|
| HBZ       | 59 | CEBPE+CEBPA   | 36 |
| HBG2      | 45 | CEBPB+CEBPA   | 34 |
| GYPB      | 15 | CEBPB+MAPK1   | 16 |
| SH3BGRL3  | 13 | CEBPE+CEBPB   | 8  |
| TMSB10    | 13 | JUN+CEBPA     | 7  |
| GYPA      | 12 | ZC3HAV1+CEBPE | 7  |
| HBG1      | 12 | AHR+FEV       | 6  |
| VIM       | 8  | ETS2+MAPK1    | 6  |
| CYBA      | 5  | CDKN1C+CDKN1B | 5  |
| RANBP1    | 5  | CEBPE+RUNX1T1 | 5  |