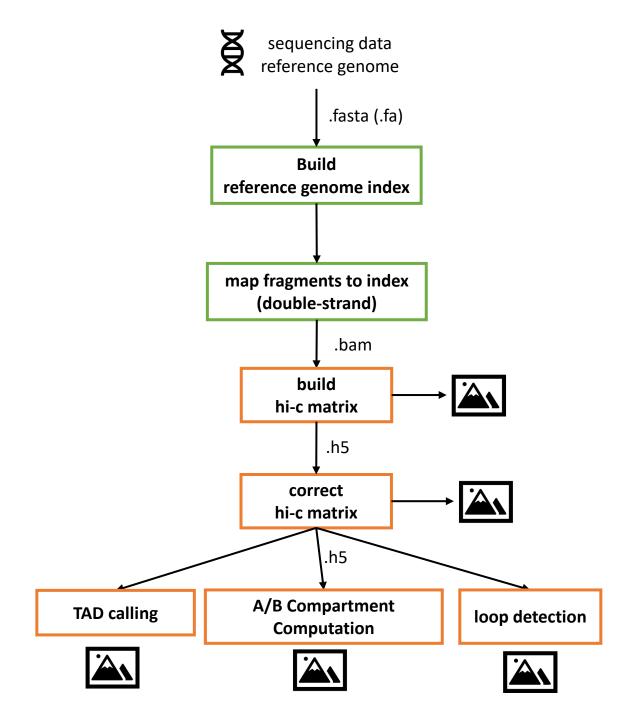
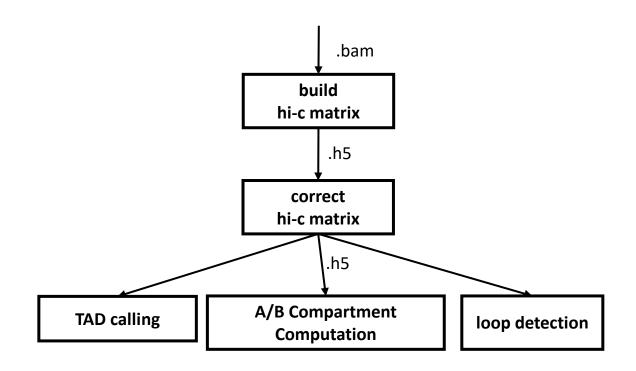
2)HiC DC+

109753144

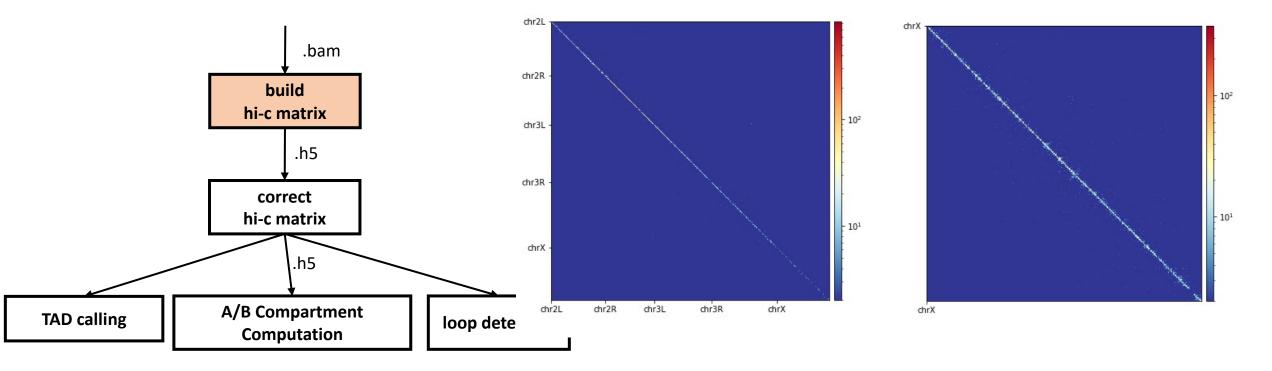
陳韋翰





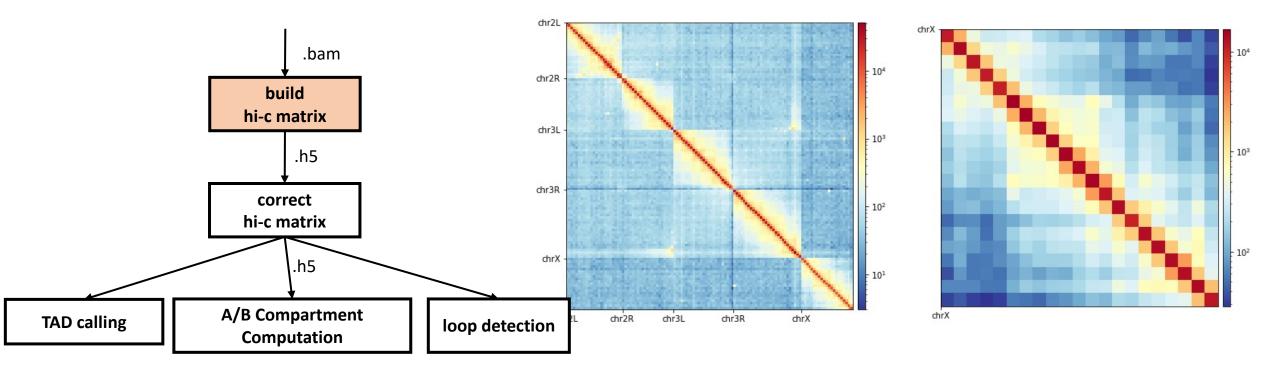
Drosophila melanogaster (dm3)

bin size : <mark>10k</mark>

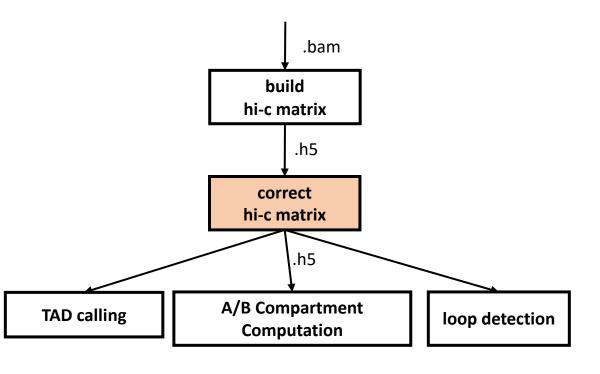


Drosophila melanogaster (dm3)

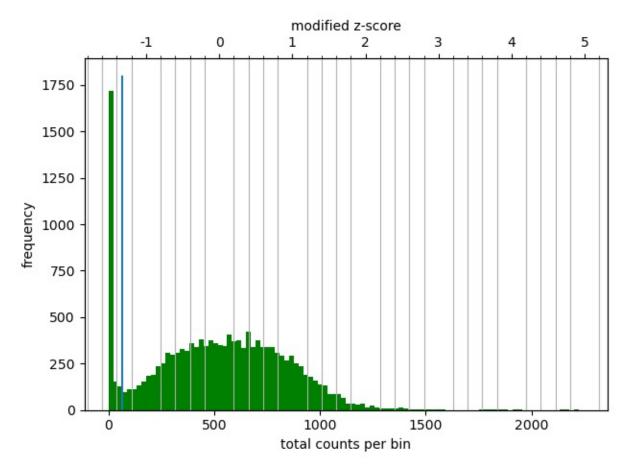
bin size: 1M



Drosophila melanogaster (dm3)

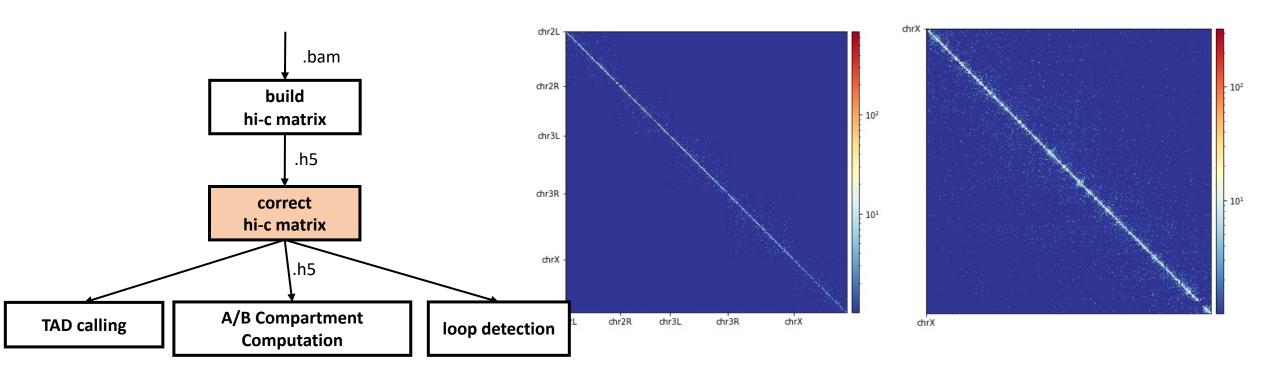


bin size: 10k

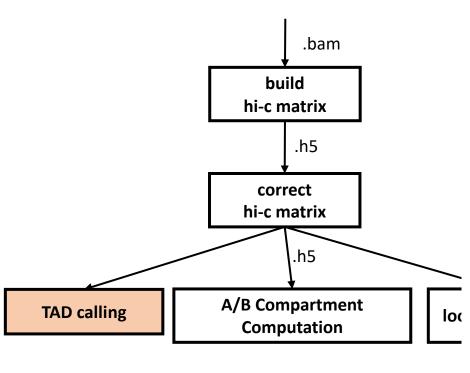


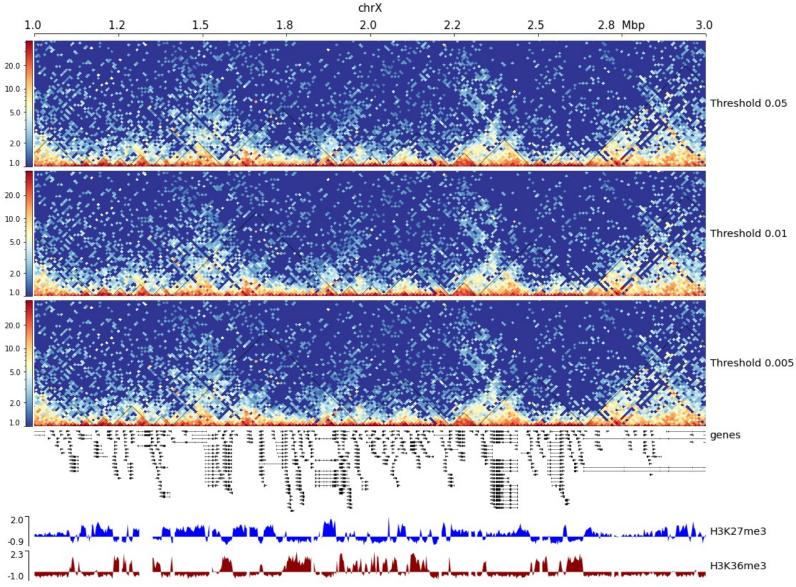
Remove bins of low coverage to -1.6 Remove bins of large coverage to 1.8

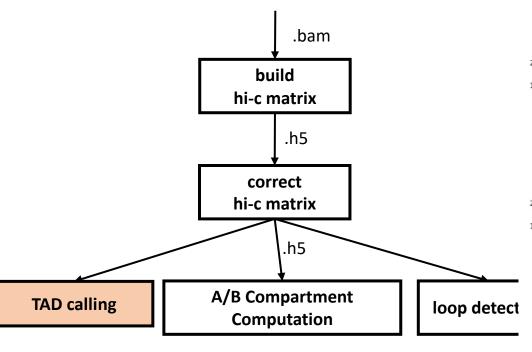
Drosophila melanogaster (dm3) bin size: 10k

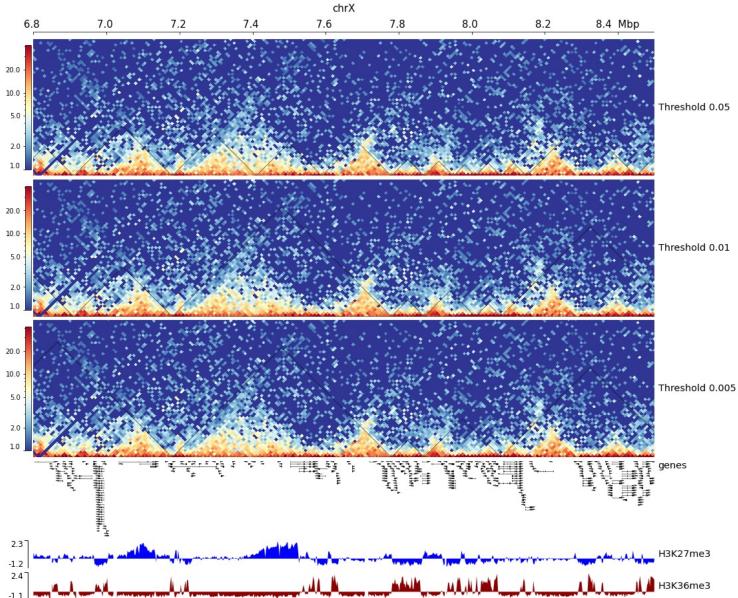


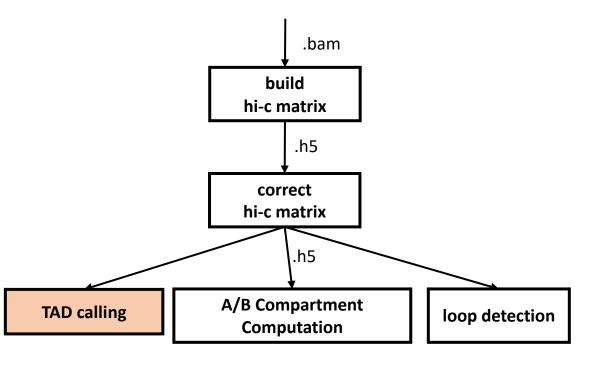
Remove bins of low coverage to -1.6
Remove bins of large coverage to 1.8



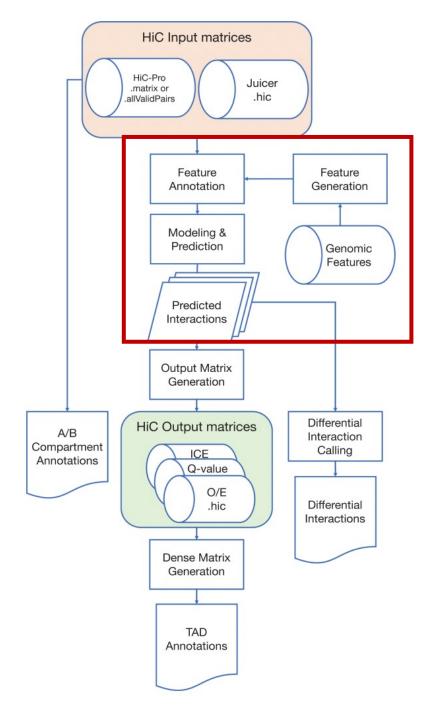








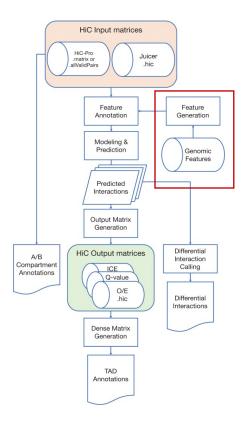
```
49 [hic matrix]
50 file = ../contact_matrix/correct_10k_dm3.h5
51 title = Threshold 0.005
52 \text{ depth} = 750000
53 transform = log1p
54 file_type = hic_matrix
55
56 [tads]
57 file = correct_10k_dm3_thr0.005_domains.bed
58 file_type = domains
59 border_color = black
60 color = none
61 overlay_previous = share-y
63 [spacer]
64 height = 0.2
66 [genes]
67 file = ../extend_data/dm3_genes.bed
68 title = genes
69 color = black
70 \text{ height} = 4
71 labels = true
72 file_type = bed
73
74 [spacer]
75 height = 0.2
76
77 [bigwig]
78 file = ../extend_data/H3K27me3.bw
79 title = H3K27me3
80 color = blue
81 height = 1.5
82 file_type = bigwig
```



call significant interactions

GSE63525 (hg19)

GSE63525 (hg19)

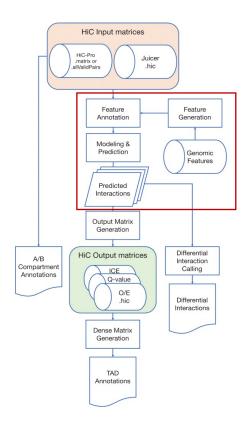


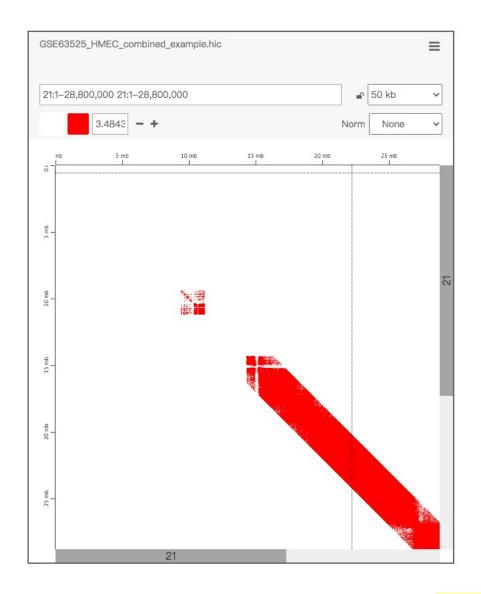
```
bins
                                          len
                                gc map
 1: chr22-49850001-49900000 0.4833
                                      0 49875
                                      0 47521
 2: chr22-49900001-49950000 0.5126
 3: chr22-49950001-50000000 0.5139
                                      0 46220
 4: chr22-50000001-50050000 0.5472
                                      0 48270
 5: chr22-50050001-50100000 0.5241
                                      0 49289
 6: chr22-50100001-50150000 0.5014
                                      0 49584
 7: chr22-50150001-50200000 0.5466
                                      0 48171
 8: chr22-50200001-50250000 0.5232
                                      0 47970
 9: chr22-50250001-50300000 0.4675
                                      0 49242
10: chr22-50300001-50350000 0.6117
                                      0 41993
11: chr22-50350001-50400000 0.1997
                                      0 49875
12: chr22-50400001-50450000 0.3623
                                      0 47683
13: chr22-50450001-50500000 0.5526
                                      0 49544
14: chr22-50500001-50550000 0.5126
                                      0 49105
15: chr22-50550001-50600000 0.4790
                                      0 49875
16: chr22-50600001-50650000 0.6103
                                      0 49700
17: chr22-50650001-50700000 0.5927
                                      0 49531
18: chr22-50700001-50750000 0.6473
                                      0 49469
19: chr22-50750001-50800000 0.5409
                                      0 49669
20: chr22-50800001-50818468 0.4792
                                        7806
```

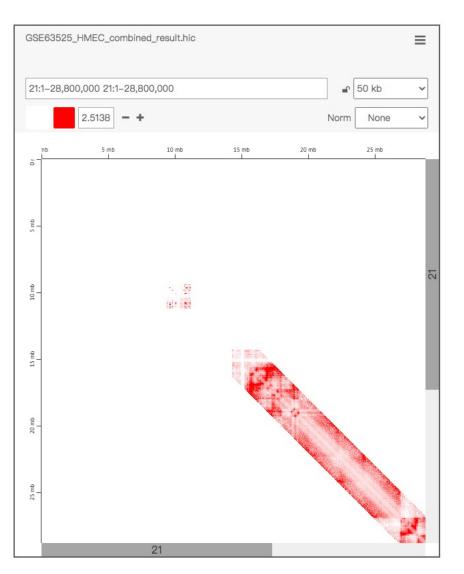
construct_features:

finds all restriction enzyme cutsites of a given genome and genome version and computes GC content, mappability (if a relevant .bigWig file is provided) and effective fragment length for uniform bin

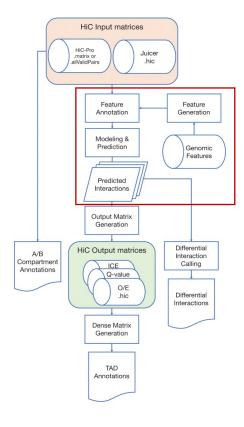
GSE63525 (hg19)

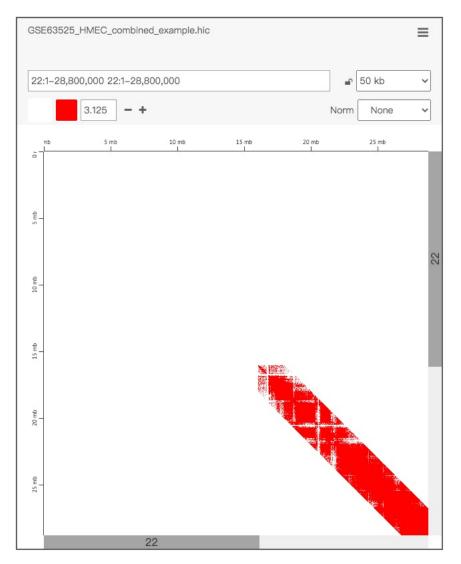


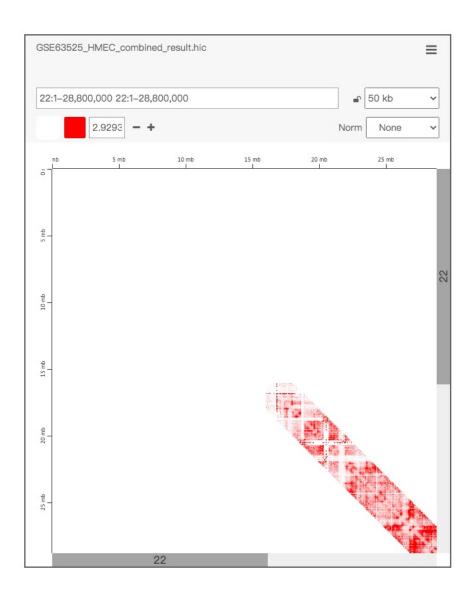




GSE63525 (hg19)







GSE131651 (hg38)

