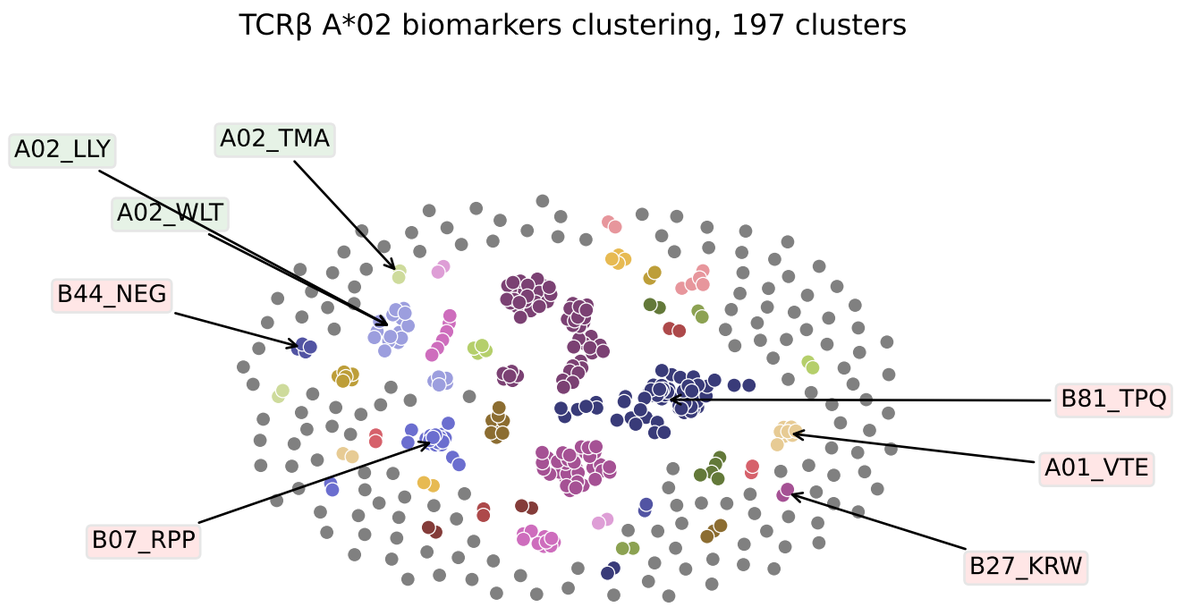
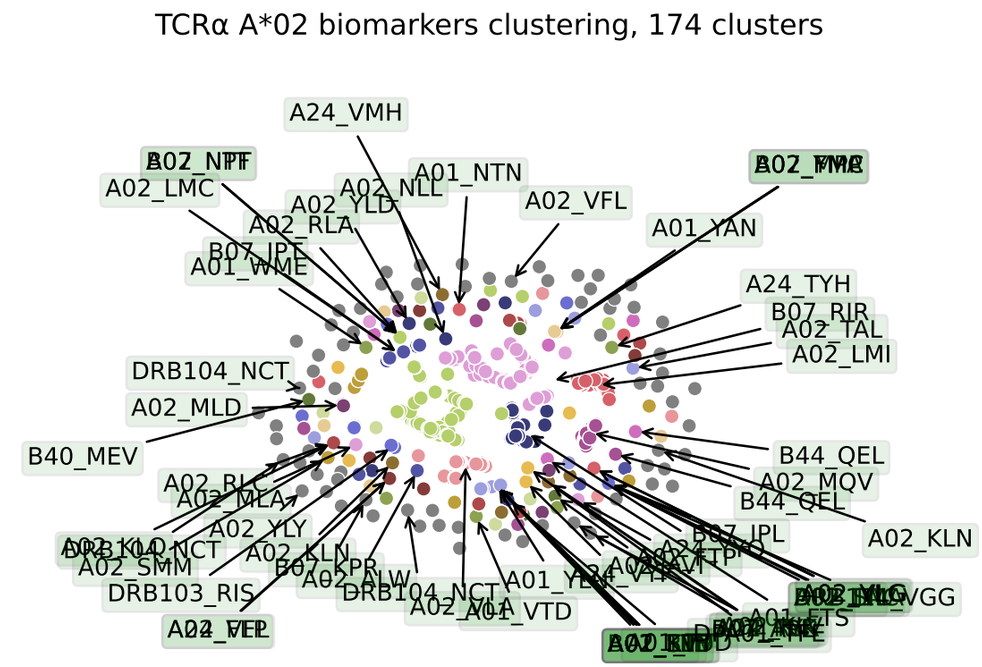
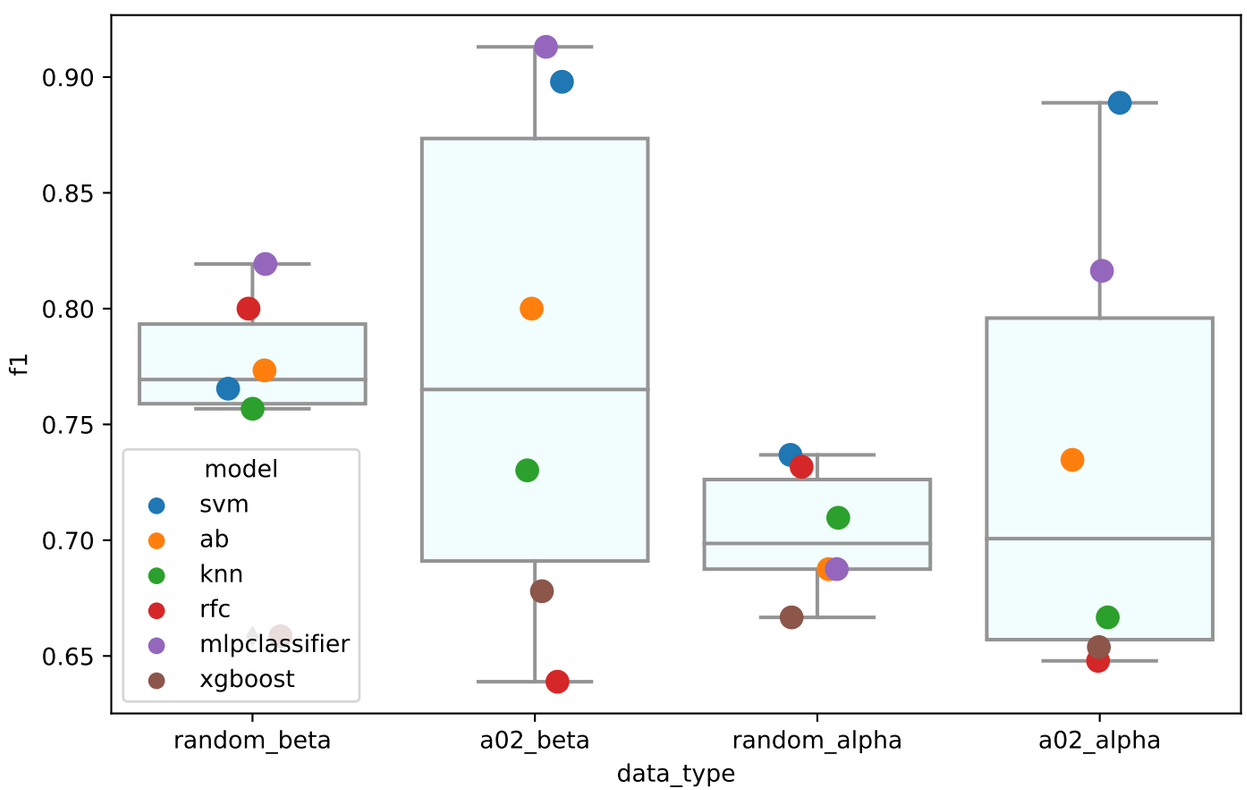
A


TCRβ A*02 biomarkers clustering, 197 clusters
A02_LLY
A02_TMA
A02_WLT
B44_NEG
B81_TPQ
A01_VTE
B07_RPP
B27_KRW

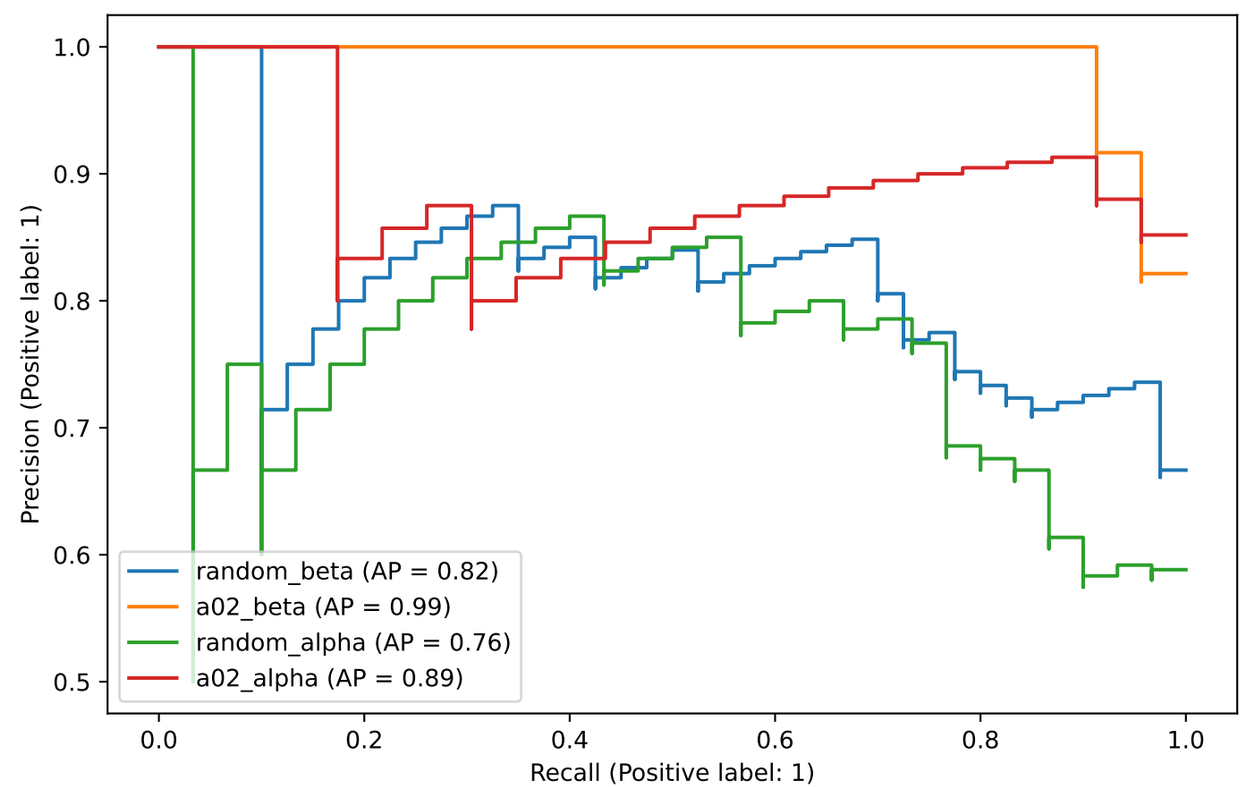
B


TCRα A*02 biomarkers clustering, 174 clusters
A24_VMH
A02_LMC
A02_NLL
A01_NTN
A02_VFL
A02_YLD
A02_RLA
A01_YAN
A01_WME
A24_TYH
B07_RIR
A02_TAL
A02_LMI
DRB104_NCT
A02_MLD
B40_MEV
B44_QEL
A02_MQV
B44_QEL
A02_KLN
A02_YLY
A02_SMM
DRB103_RIS
A01_VTD
DRB104_NCT

C


f1
0.90
0.85
0.80
0.75
0.70
0.65
model
svm
ab
knn
rfc
mlpclassifier
xgboost
random_beta
a02_beta
random_alpha
a02_alpha
data_type

D


Precision (Positive label: 1)
1.0
0.9
0.8
0.7
0.6
0.5
random_beta (AP = 0.82)
a02_beta (AP = 0.99)
random_alpha (AP = 0.76)
a02_alpha (AP = 0.89)
0.0
0.2
0.4
0.6
0.8
1.0
Recall (Positive label: 1)