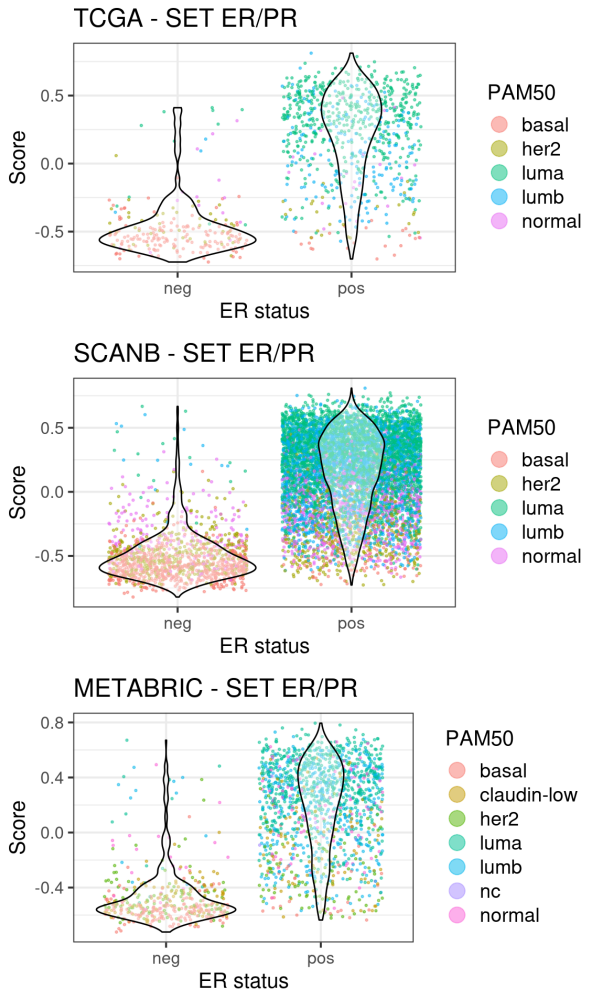
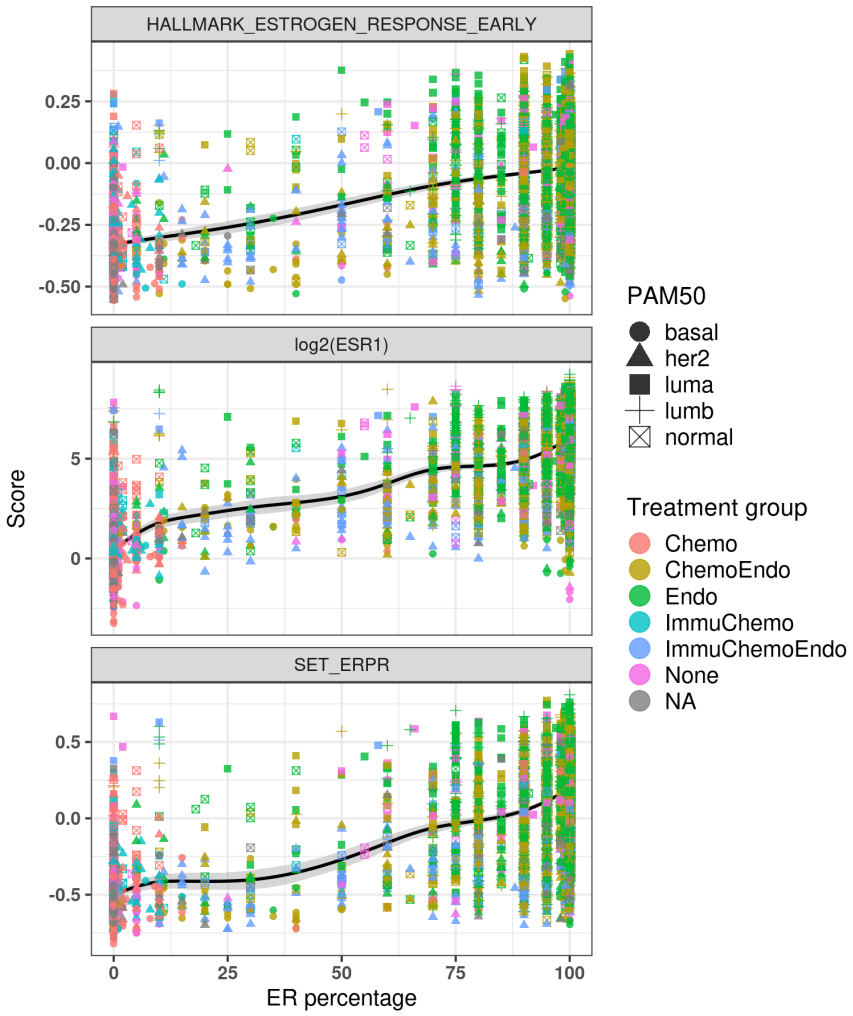
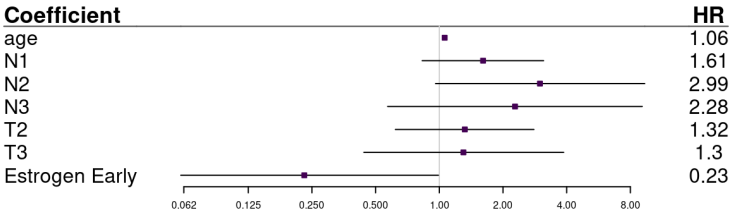
a

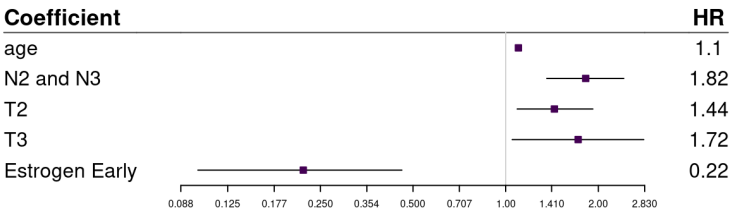

TCGA - SET ER/PR
Score
0.5
0.0
-0.5
neg
pos
ER status
PAM50
basal
her2
luma
lumb
normal
SCANB - SET ER/PR
Score
0.5
0.0
-0.5
neg
pos
ER status
PAM50
basal
her2
luma
lumb
normal
METABRIC - SET ER/PR
Score
0.8
0.4
0.0
-0.4
neg
pos
ER status
PAM50
basal
claudin-low
her2
luma
lumb
nc
normal

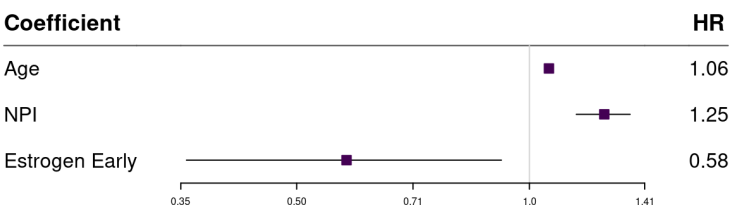
b


Correlation between ER IHC percentage and molecular ER signaling score
HALLMARK_ESTROGEN_RESPONSE_EARLY
0.25
0.00
-0.25
-0.50
log2(ESR1)
5
0
SET_ERPR
0.5
0.0
-0.5
Score
0
25
50
75
100
ER percentage
PAM50
basal
her2
luma
lumb
normal
Treatment group
Chemo
ChemoEndo
Endo
ImmuChemo
ImmuChemoEndo
None
NA

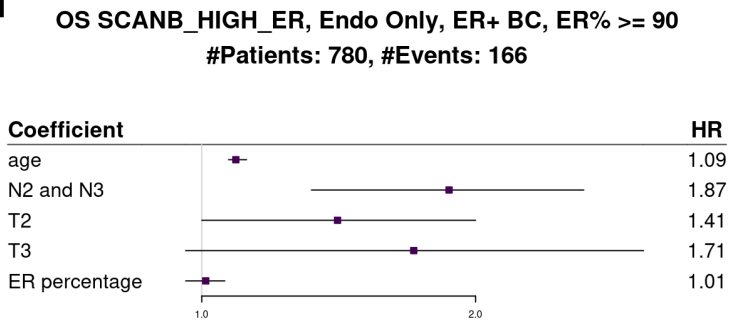
c

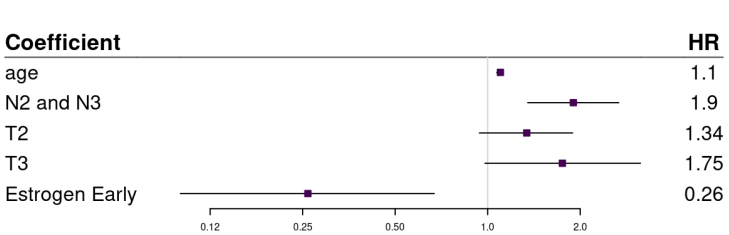

OS TCGA, Lum A/B, ER+ BC
#Patients: 672, #Events: 72
Coefficient
HR
age 1.06
N1 1.61
N2 2.99
N3 2.28
T2 1.32
T3 1.3
Estrogen Early 0.23
0.062
0.125
0.250
0.500
1.00
2.00
4.00
8.00

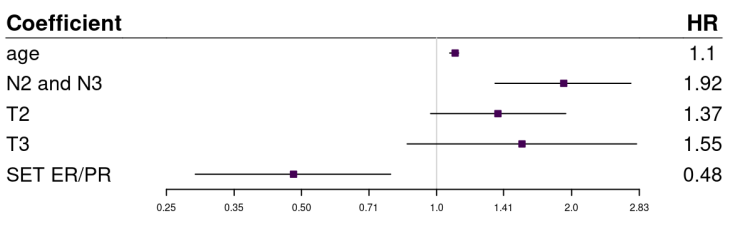

OS SCANB, Endo Only, ER+ BC
#Patients: 995, #Events: 242
Coefficient
HR
age 1.1
N2 and N3 1.82
T2 1.44
T3 1.72
Estrogen Early 0.22
0.088
0.125
0.177
0.250
0.354
0.500
0.707
1.00
1.410
2.00
2.830


OS METABRIC, Endo Only, ER+ BC
#Patients: 938, #Events: 576
Coefficient
HR
Age 1.06
NPI 1.25
Estrogen Early 0.58
0.35
0.50
0.71
1.0
1.41

d


OS SCANB_HIGH_ER, Endo Only, ER+ BC, ER% >= 90
#Patients: 780, #Events: 166
Coefficient
HR
age 1.09
N2 and N3 1.87
T2 1.41
T3 1.71
ER percentage 1.01
1.0
2.0


OS SCANB_HIGH_ER, Endo Only, ER+ BC, ER% >= 90
#Patients: 780, #Events: 166
Coefficient
HR
age 1.1
N2 and N3 1.9
T2 1.34
T3 1.75
Estrogen Early 0.26
0.12
0.25
0.50
1.0
2.0


OS SCANB_HIGH_ER, Endo Only, ER+ BC, ER% >= 90
#Patients: 780, #Events: 166
Coefficient
HR
age 1.1
N2 and N3 1.92
T2 1.37
T3 1.55
SET ER/PR 0.48
0.25
0.35
0.50
0.71
1.0
1.41
2.0
2.83