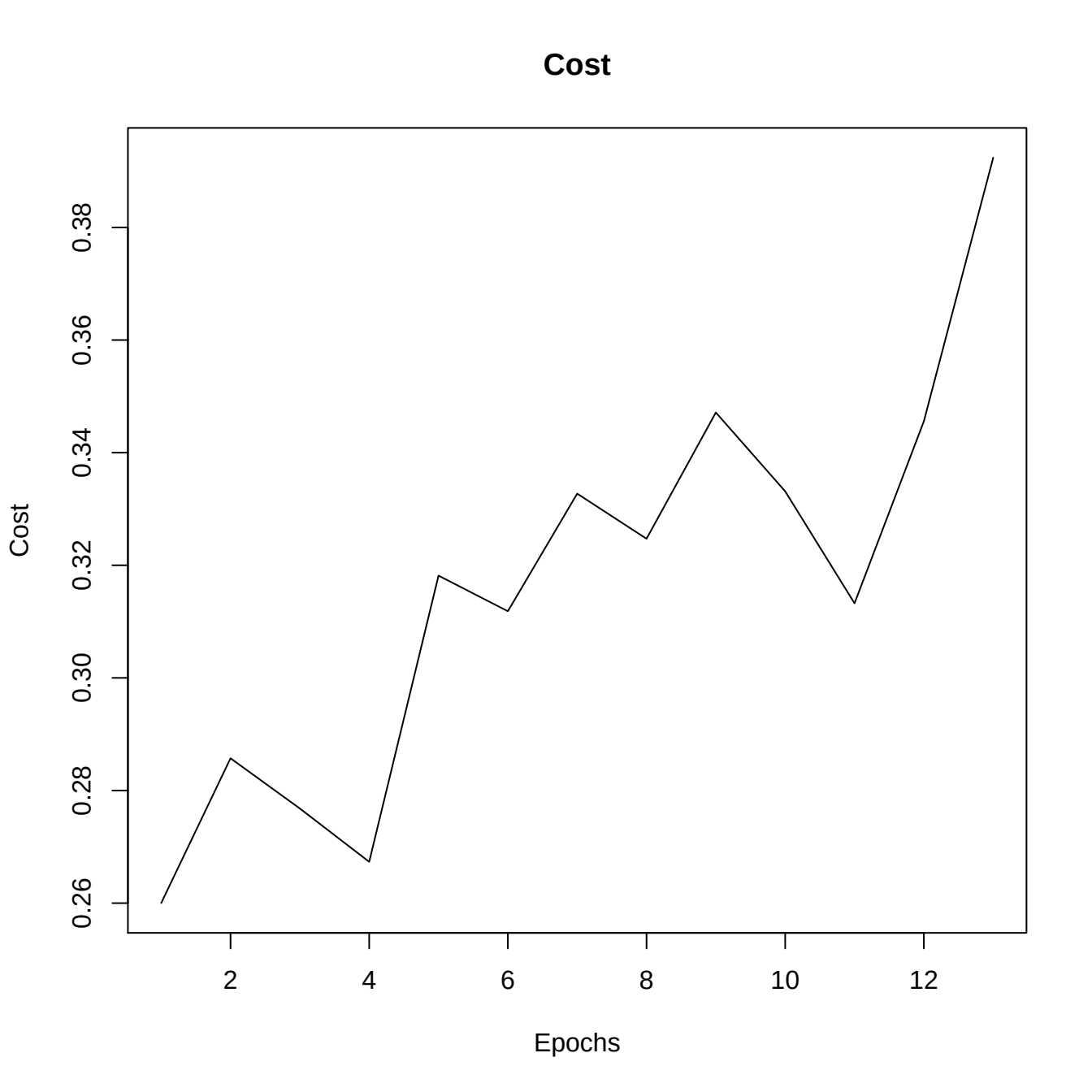
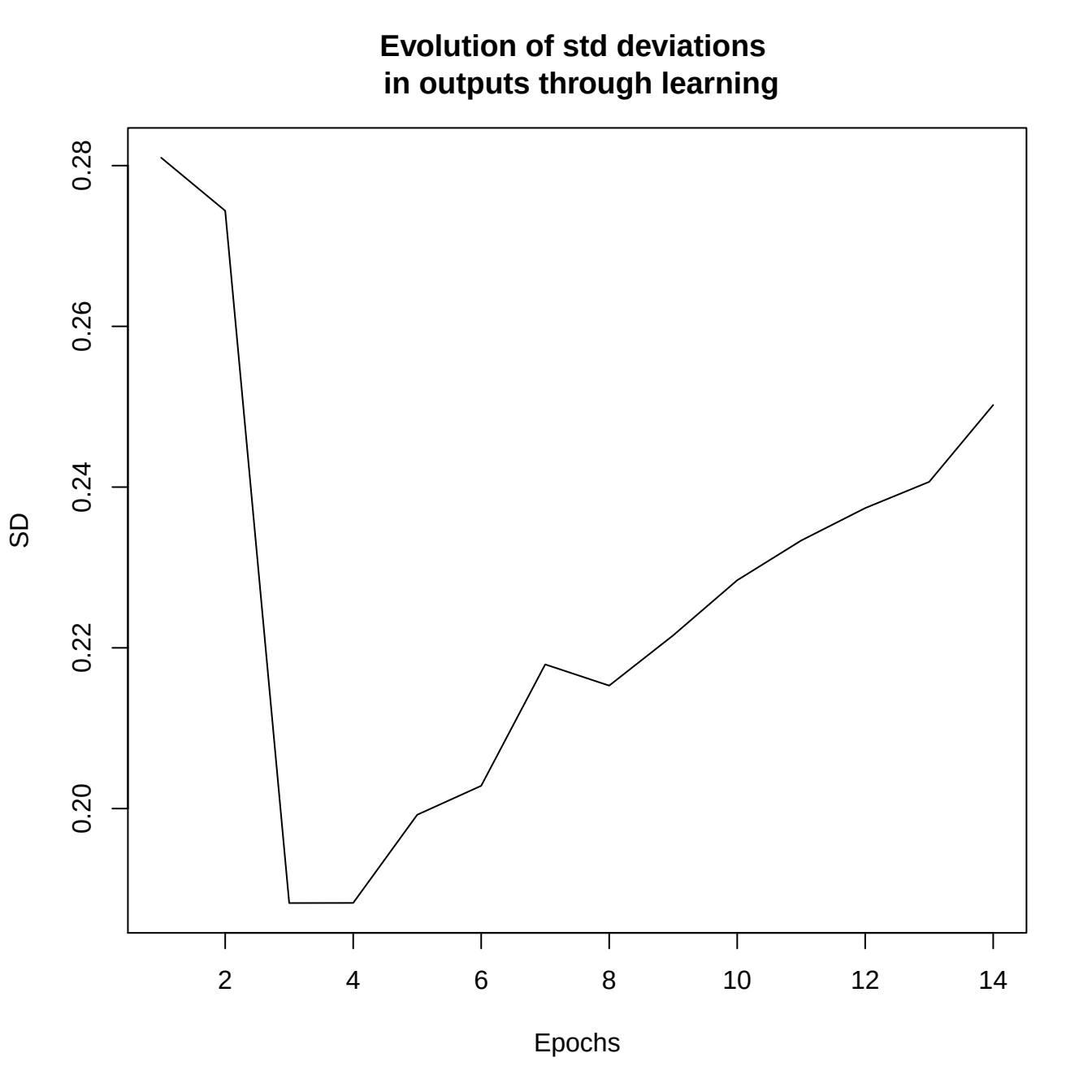
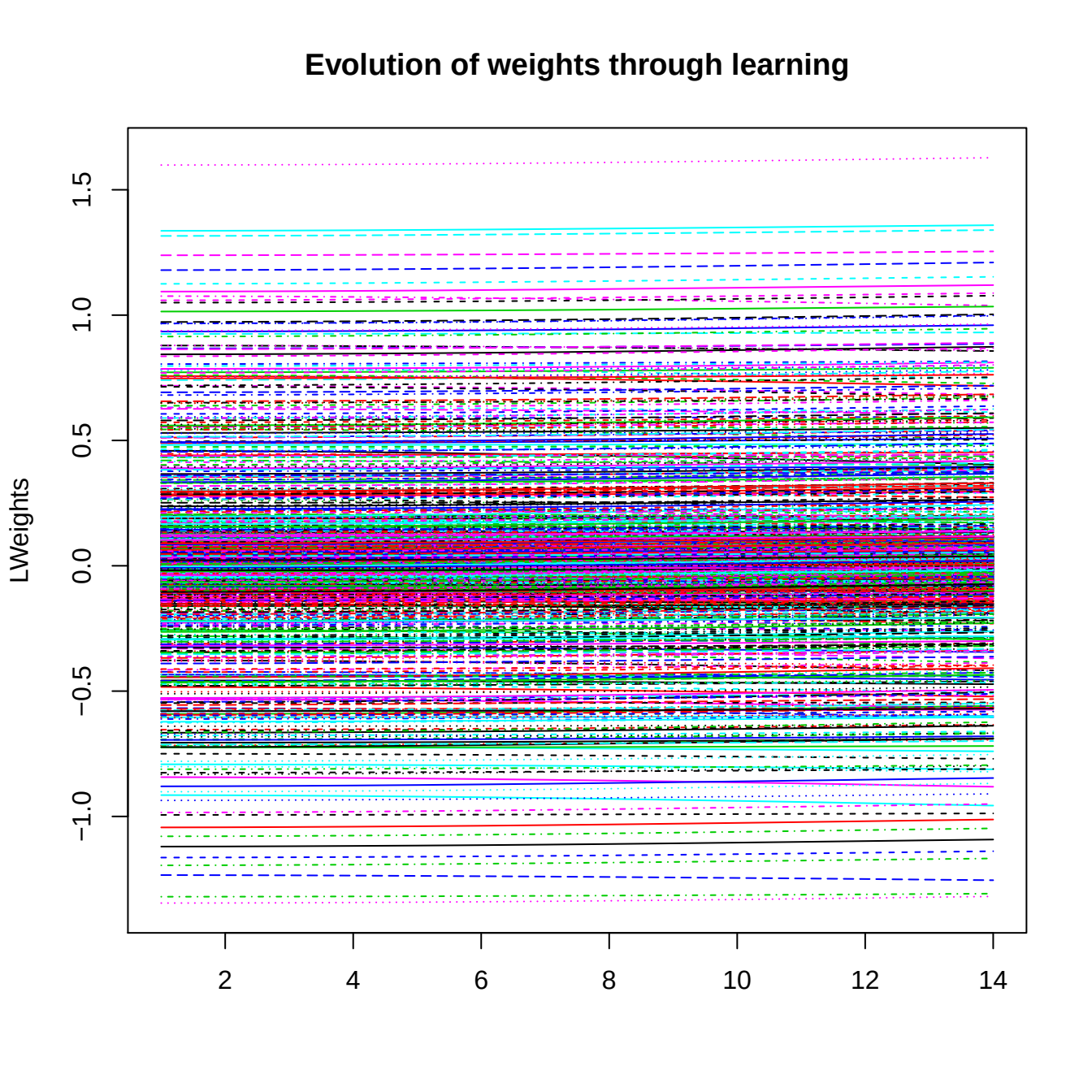
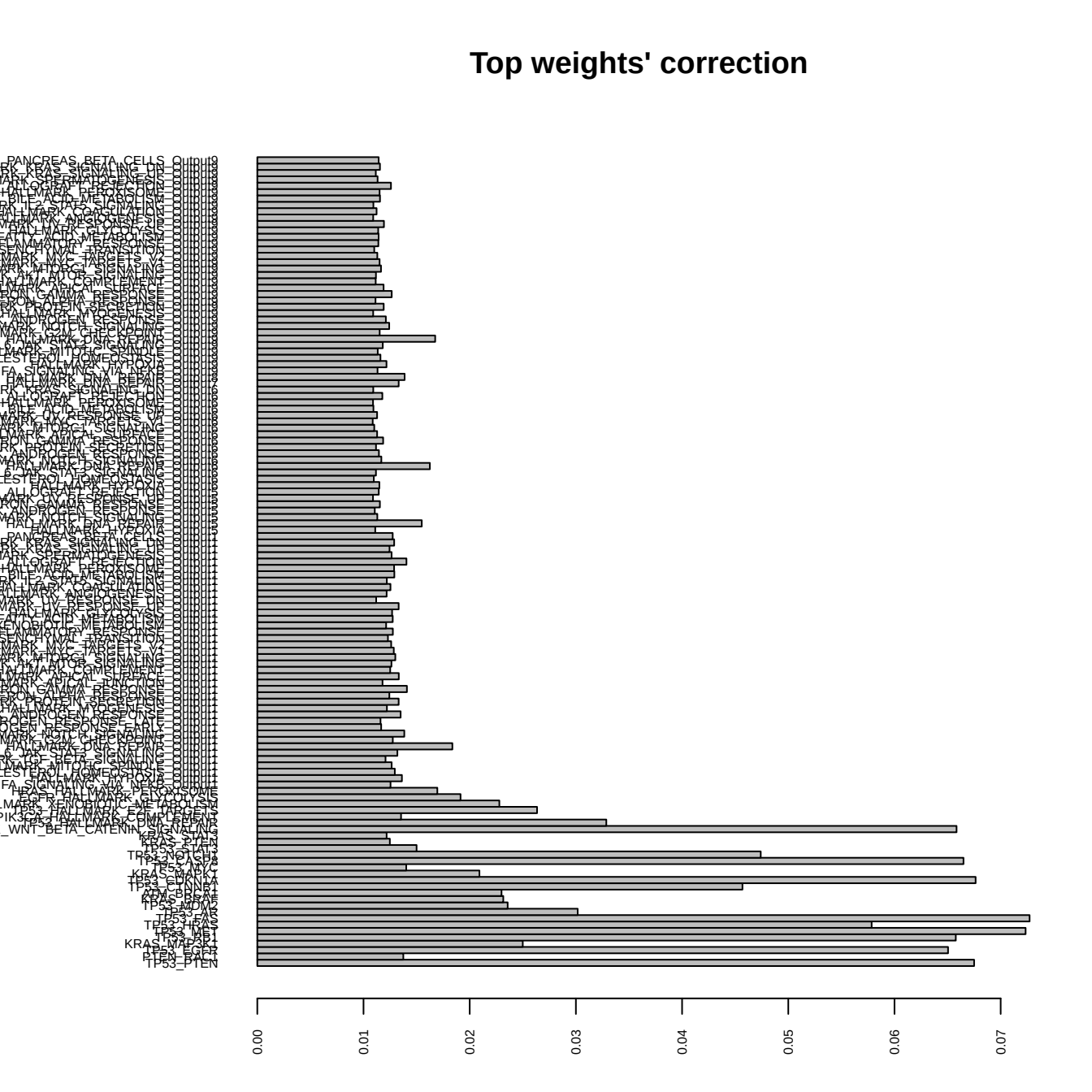
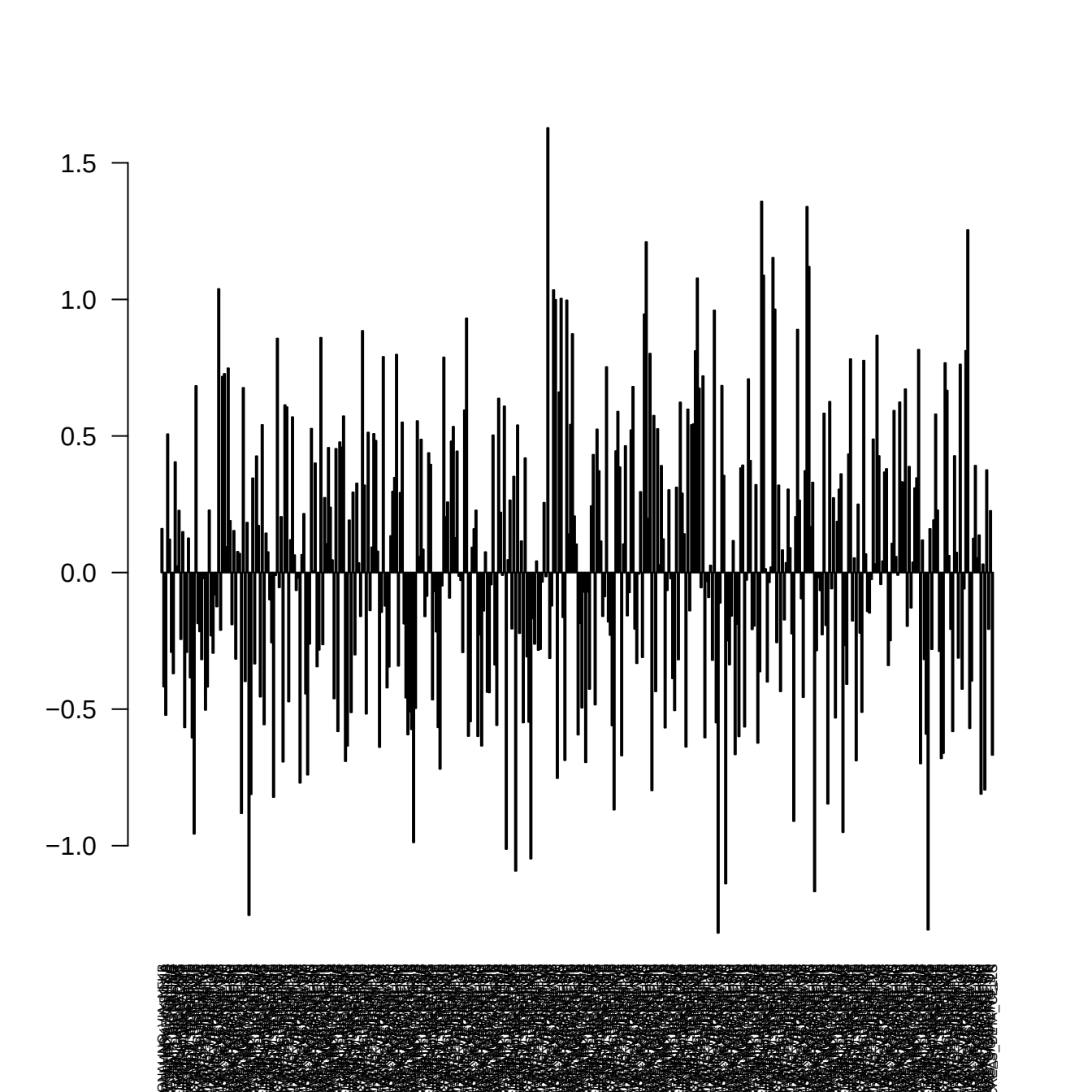
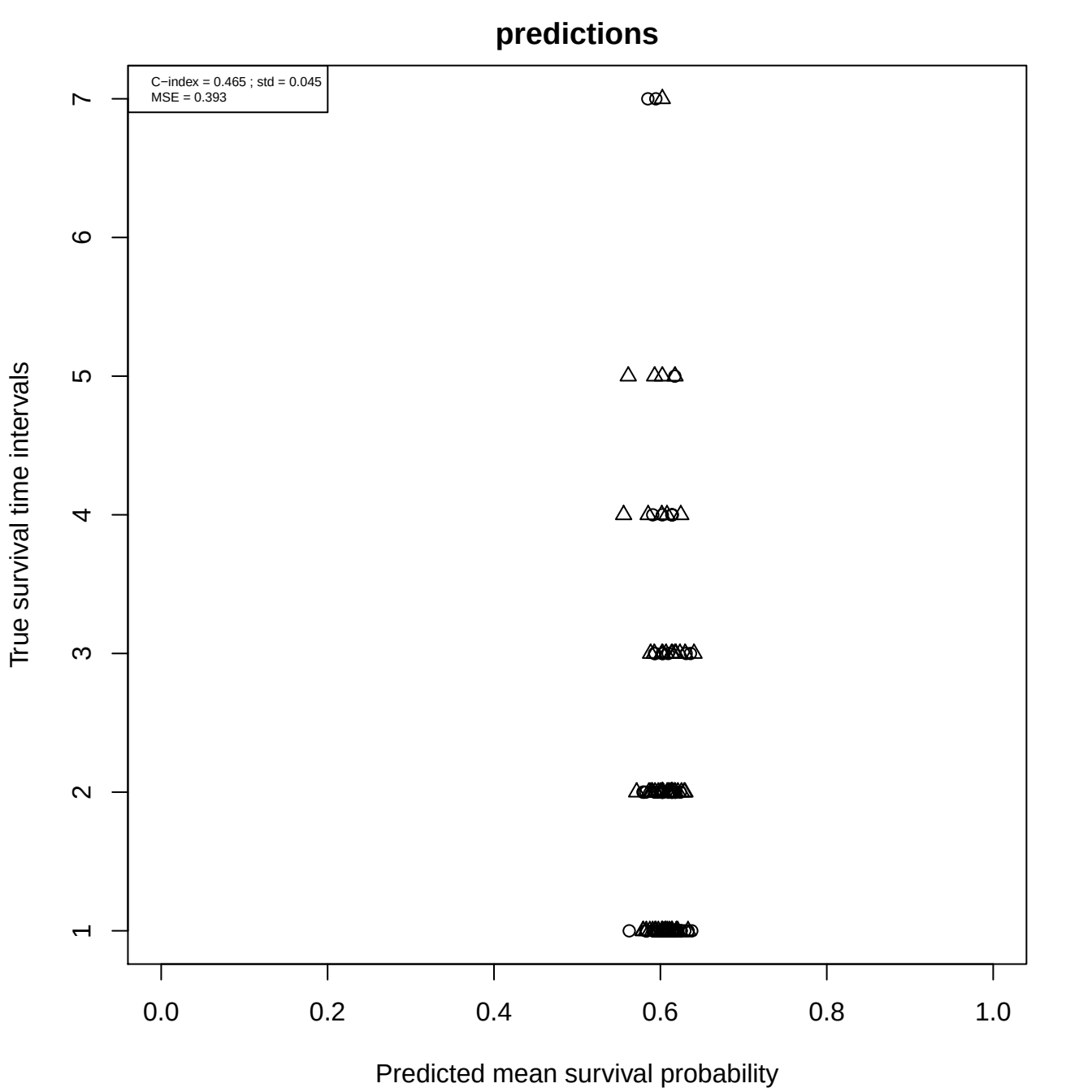

Cost
Cost
0.26
0.28
0.30
0.32
0.34
0.36
0.38
2
4
6
8
10
12
Epochs

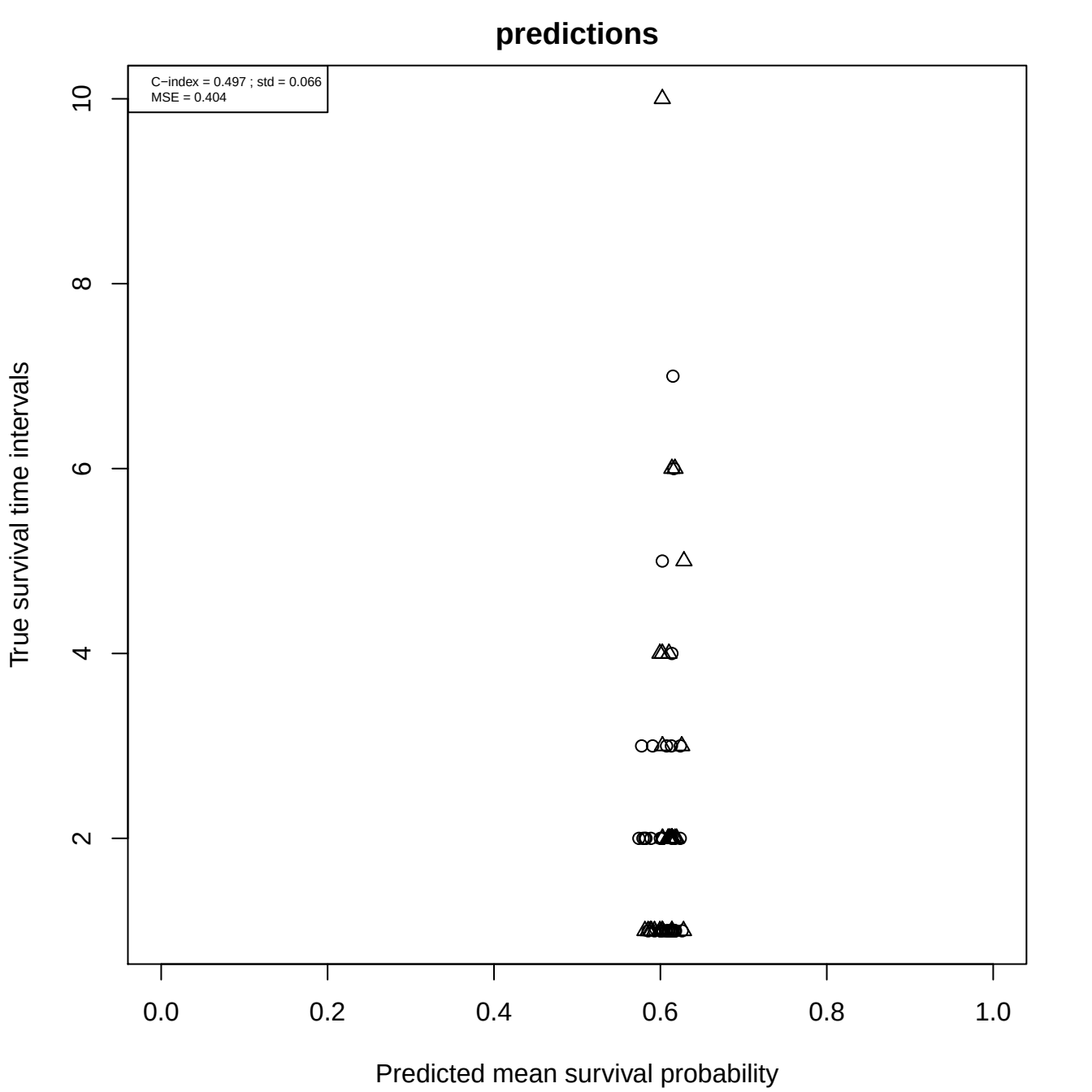

Evolution of std deviations
in outputs through learning
SD
0.20
0.22
0.24
0.26
0.28
2
4
6
8
10
12
14
Epochs


Evolution of weights through learning
LWeights
1.5
1.0
0.5
0.0
−0.5
−1.0
2
4
6
8
10
12
14


Top weights' correction
TP53_PTEN
TP53_EGFR
TP53_RB1
KRAS.MAPK21
TP53_HRAS
TP53_FAS
TP53_MDM2
KRAS_PTEN
TP53_MYC
TP53.NOTCH1
KRAS_STAT3
WNT_BETA_CATENIN
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07


1.5
1.0
0.5
0.0
−0.5
−1.0


predictions
C−index = 0.465 ; std = 0.045
MSE = 0.393
True survival time intervals
1
2
3
4
5
6
7
0.0
0.2
0.4
0.6
0.8
1.0
Predicted mean survival probability


predictions
C−index = 0.497 ; std = 0.066
MSE = 0.404
True survival time intervals
2
4
6
8
10
0.0
0.2
0.4
0.6
0.8
1.0
Predicted mean survival probability