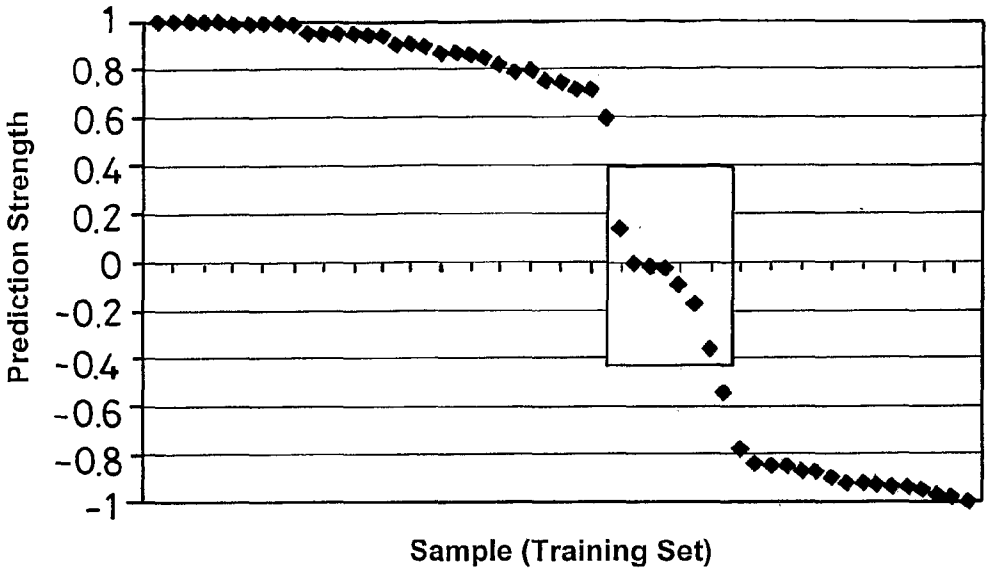

Prediction Strength
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
Sample (Training Set)

*Fig. 1(a)*

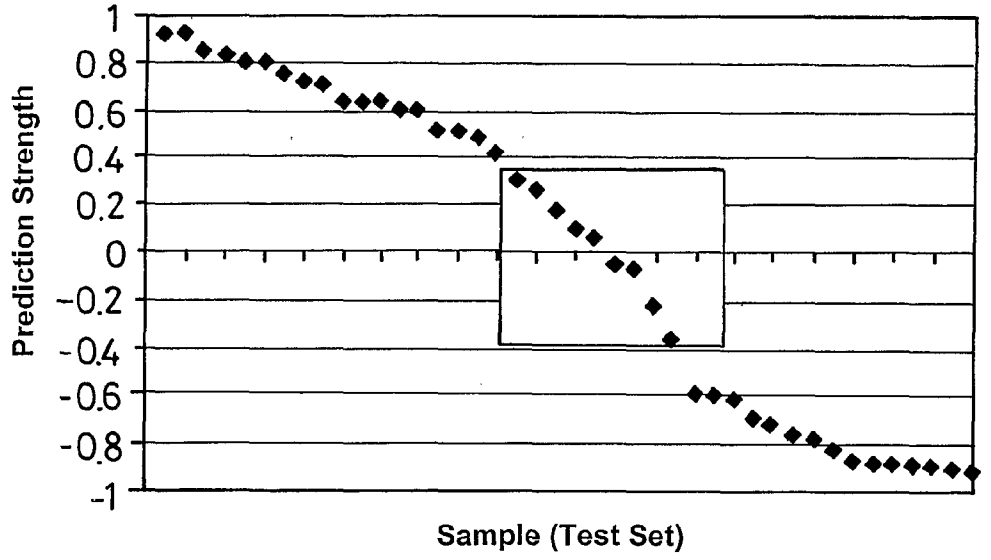

Prediction Strength
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
Sample (Test Set)

*Fig. 1(b)*

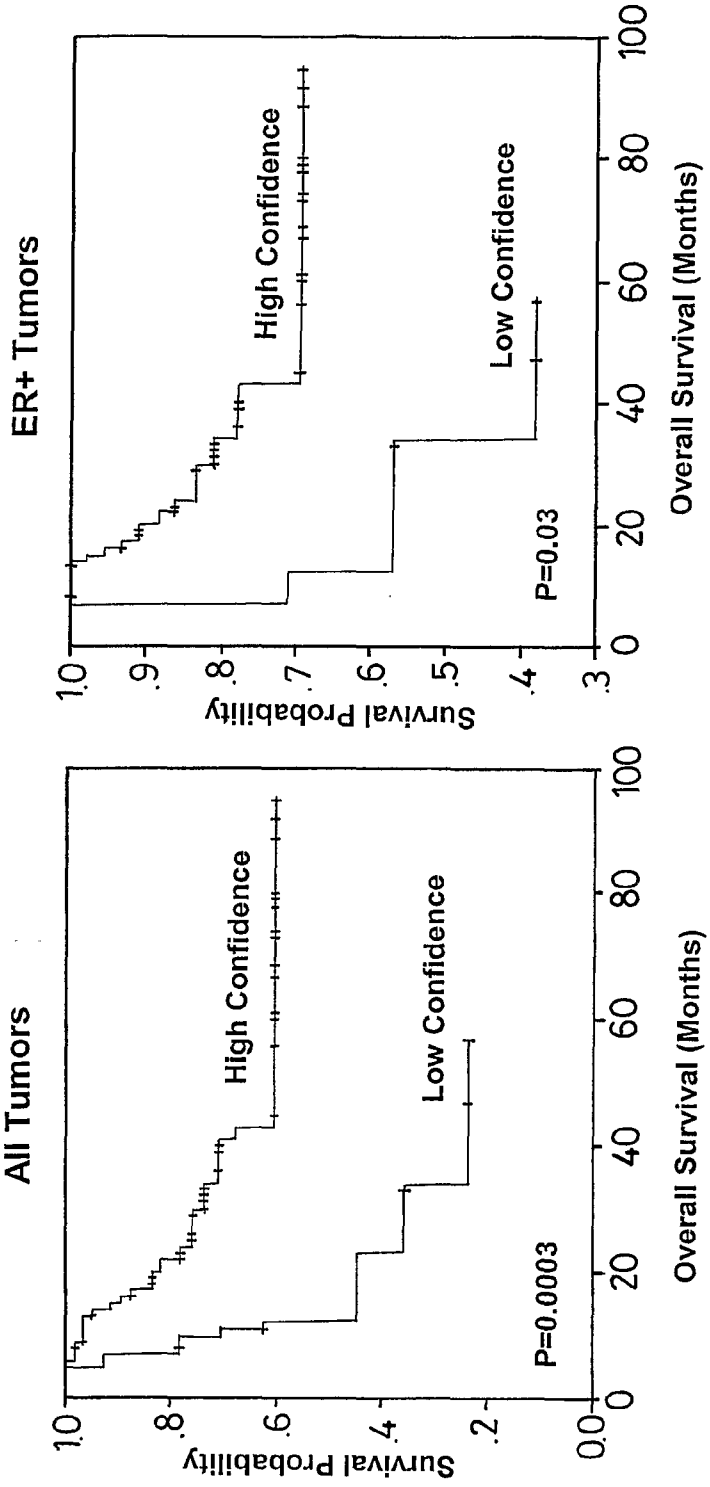

ER+ Tumors
High Confidence
Low Confidence
P=0.03
Survival Probability
Overall Survival (Months)
1.0
.9
.8
.7
.6
.5
.4
.3
0
20
40
60
80
100

*Fig. 2(b)*


All Tumors
High Confidence
Low Confidence
P=0.0003
Survival Probability
Overall Survival (Months)
1.0
.8
.6
.4
.2
0.0
0
20
40
60
80
100

*Fig. 2(a)*

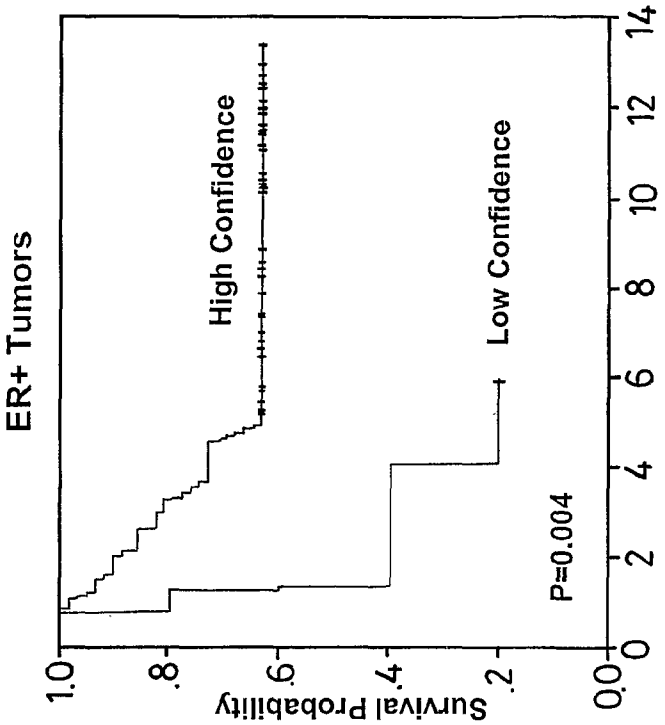

ER+ Tumors
High Confidence
Low Confidence
P=0.004
Survival Probability
Time to metastasis(years)
1.0
.8
.6
.4
.2
0.0
0
2
4
6
8
10
12
14

*Fig. 2(d)*

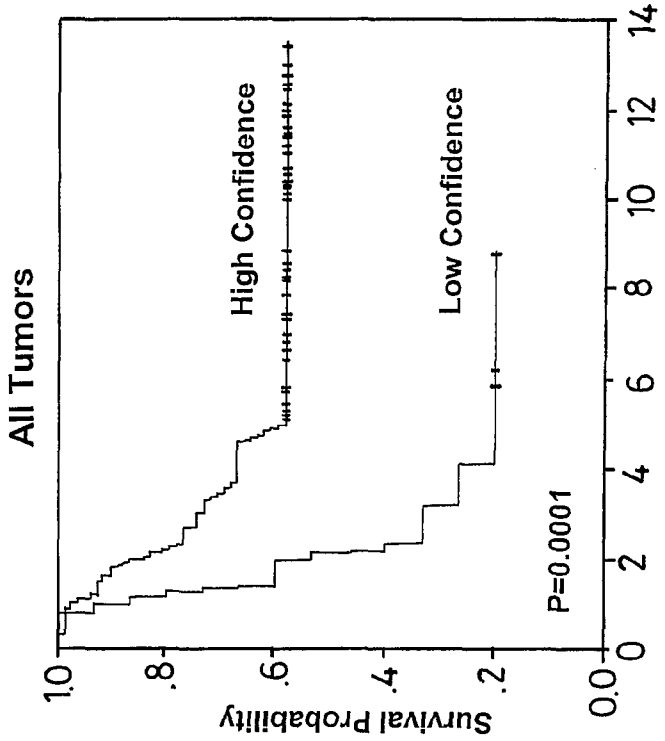

All Tumors
High Confidence
Low Confidence
P=0.0001
Survival Probability
Time to metastasis(years)
1.0
.8
.6
.4
.2
0.0
0
2
4
6
8
10
12
14

*Fig. 2(c)*

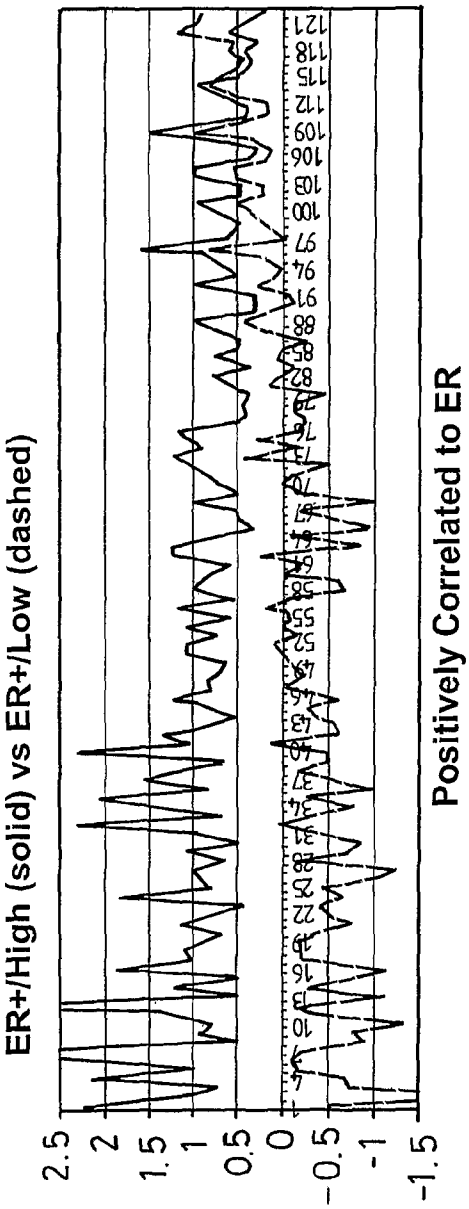

ER+/High (solid) vs ER+/Low (dashed)
Positively Correlated to ER

*Fig. 3(a)*

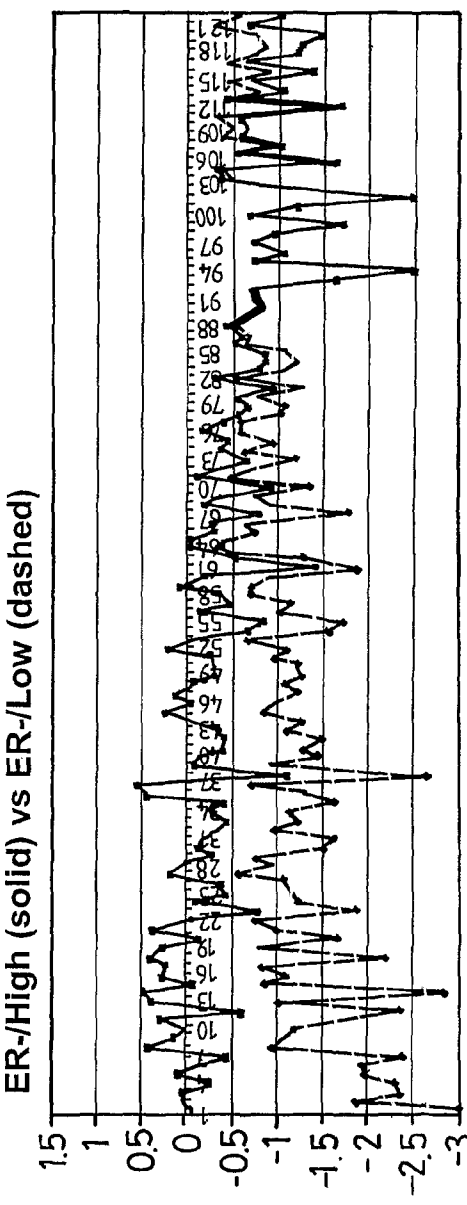

ER-/High (solid) vs ER-/Low (dashed)
Positively Correlated to ER

*Fig. 3(b)*

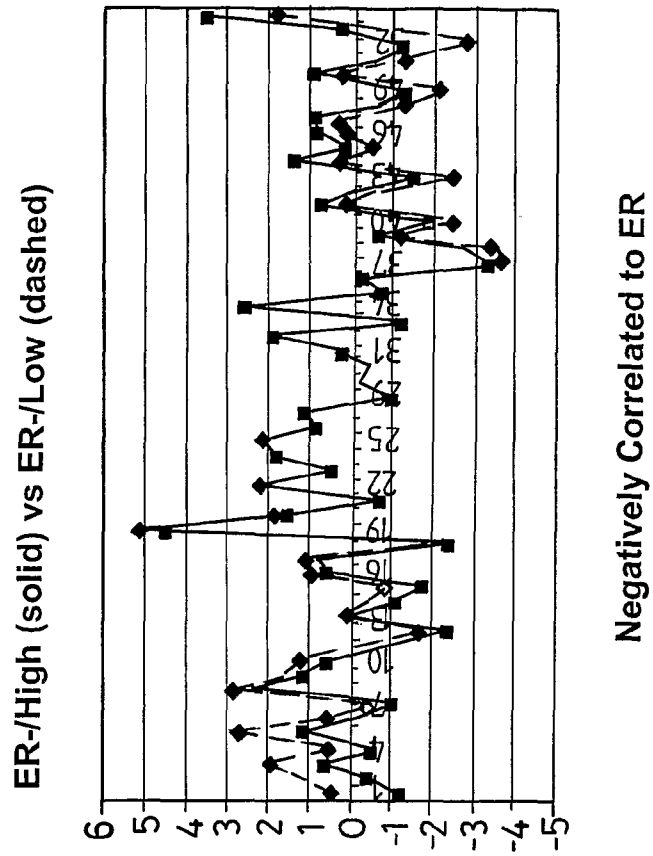

ER-/High (solid) vs ER-/Low (dashed)
Negatively Correlated to ER

*Fig. 3(d)*

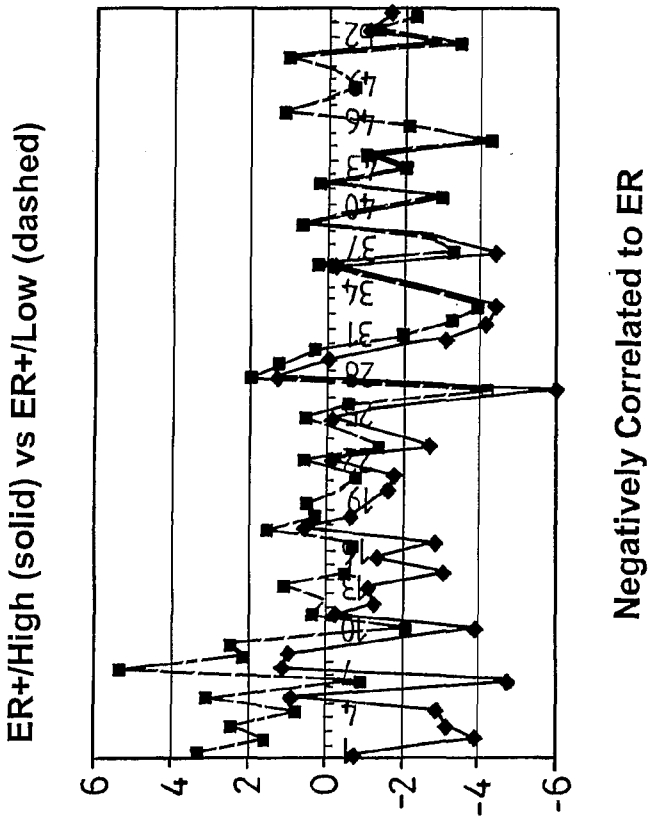

ER+/High (solid) vs ER+/Low (dashed)
Negatively Correlated to ER

*Fig. 3(c)*

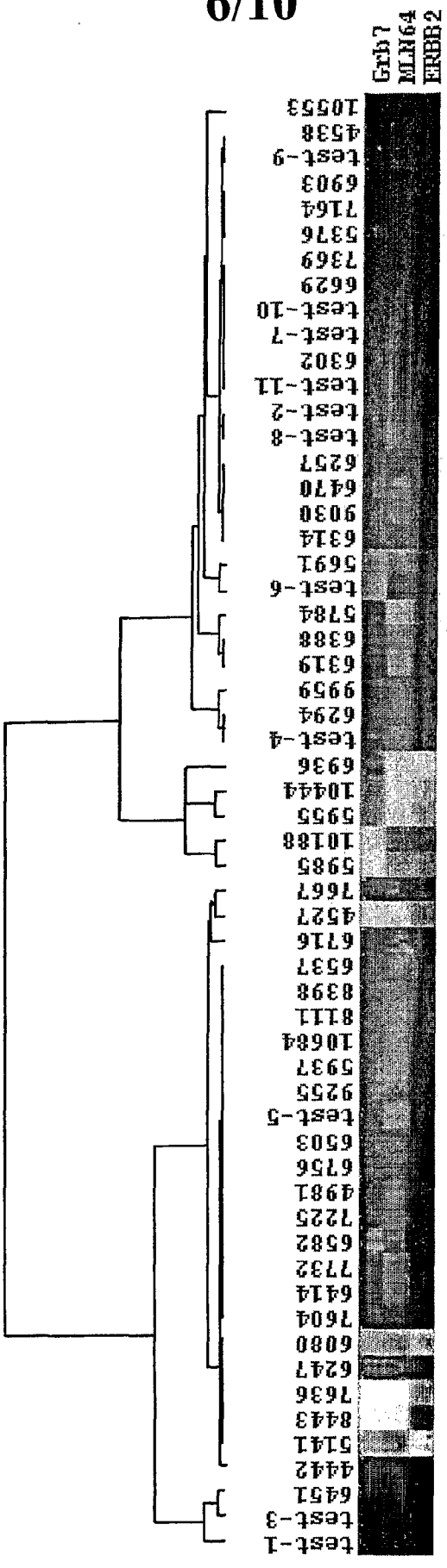

Grb7
MLN64
ERBB2
10553
4538
test-9
6903
7164
5376
7369
6629
test-10
test-7
6302
test-11
test-2
test-8
6257
6470
9030
6314
5691
test-6
5784
6388
6319
9959
6294
test-4
6936
10444
5955
10188
5985
7667
4527
6716
6537
8398
8111
10684
5937
9255
test-5
6503
6756
4981
7225
6582
7732
6414
7604
6080
6247
7636
8443
5141
4442
6451
test-3
test-1

*Fig. 4(a)*

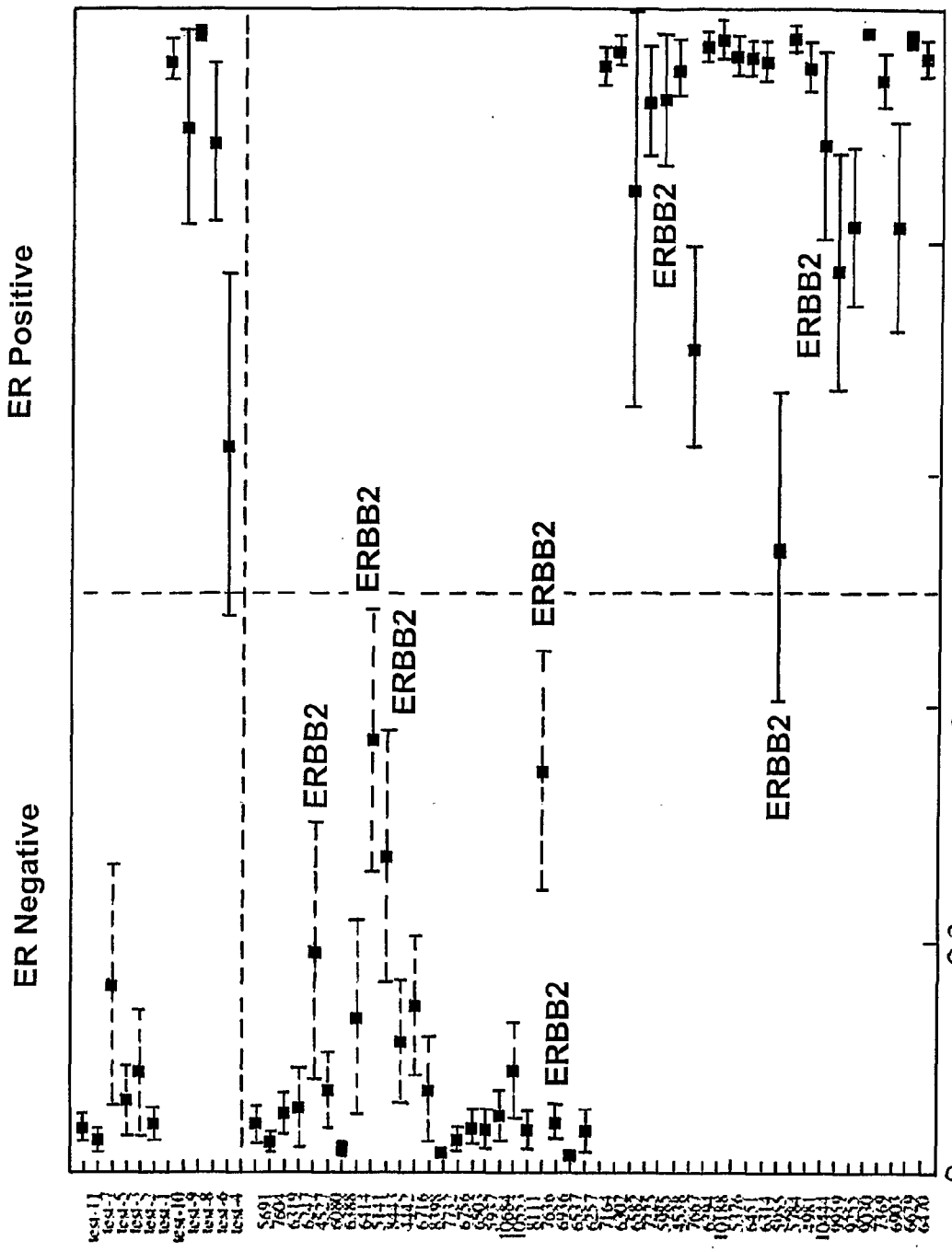

ER Positive
ER Negative
ANN committee vote
0
0.2
0.4
0.6
0.8
1
ERBB2
ERBB2
ERBB2
ERBB2
ERBB2
ERBB2
ERBB2

*Fig. 4(b)*

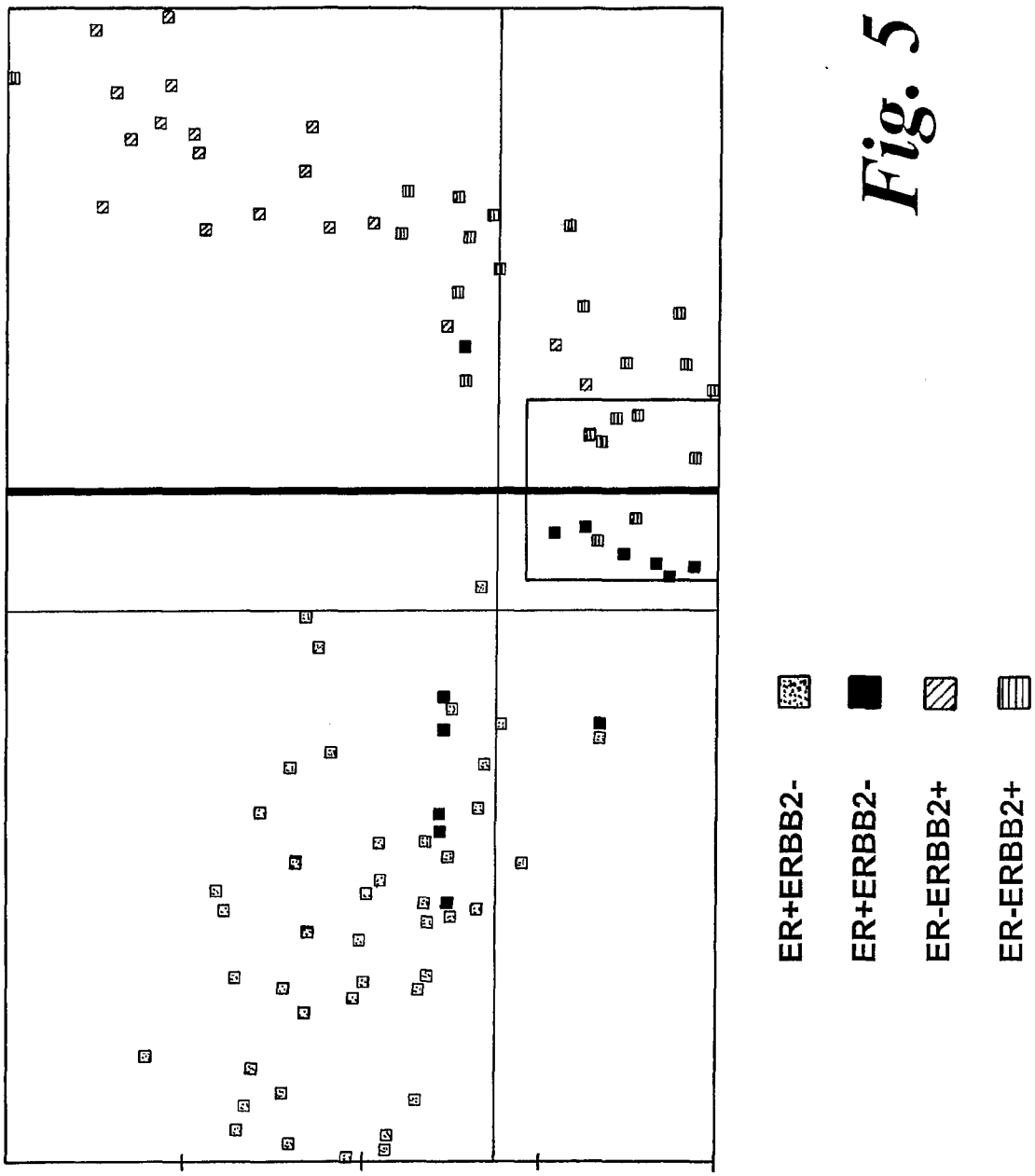



*Fig. 5*

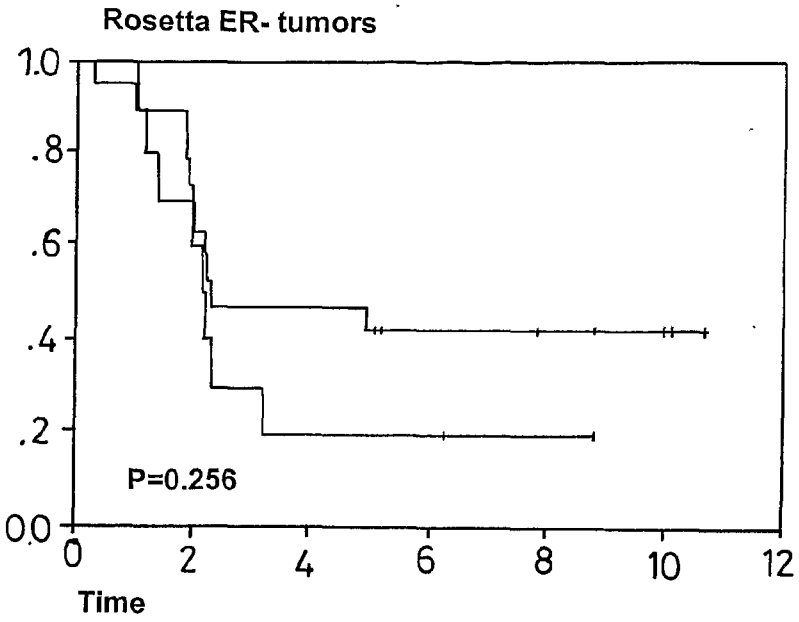

Rosetta ER- tumors
1.0
.8
.6
.4
.2
0.0
P=0.256
0
2
4
6
8
10
12
Time

*Fig. 6(a)*

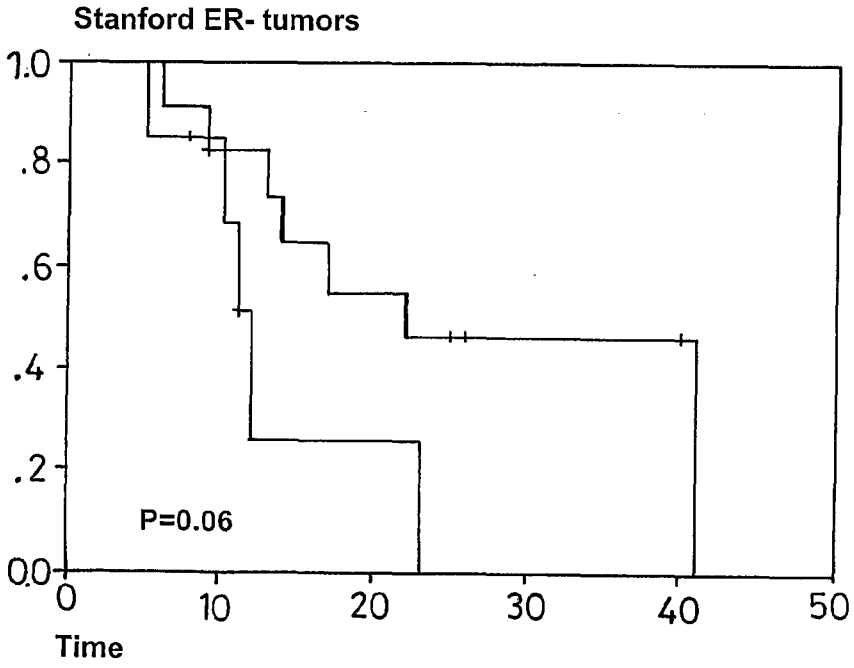

Stanford ER- tumors
1.0
.8
.6
.4
.2
0.0
P=0.06
0
10
20
30
40
50
Time

*Fig. 6(b)*

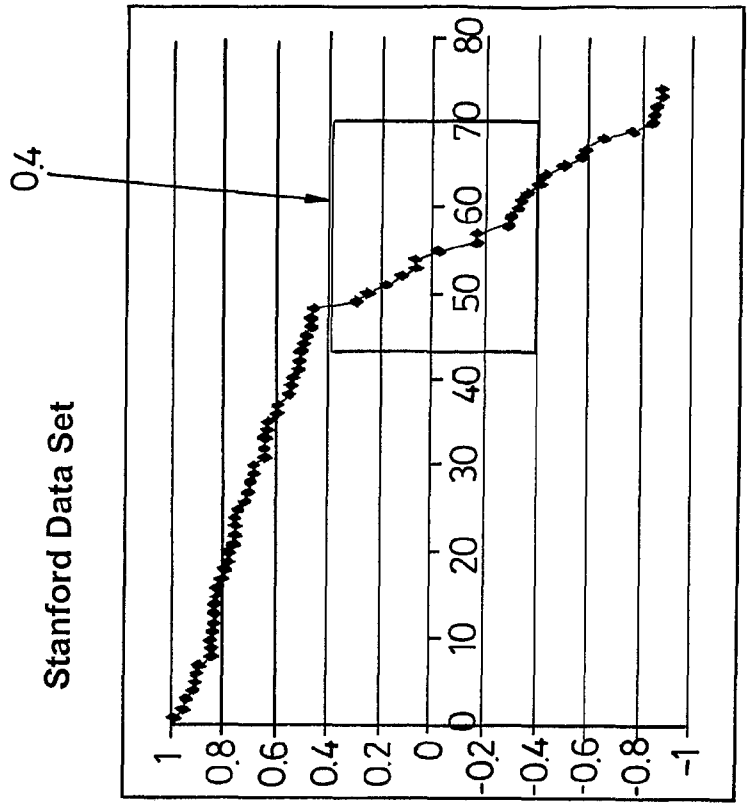

Stanford Data Set
0.4
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
10
20
30
40
50
60
70
80

Fig. 7(b)

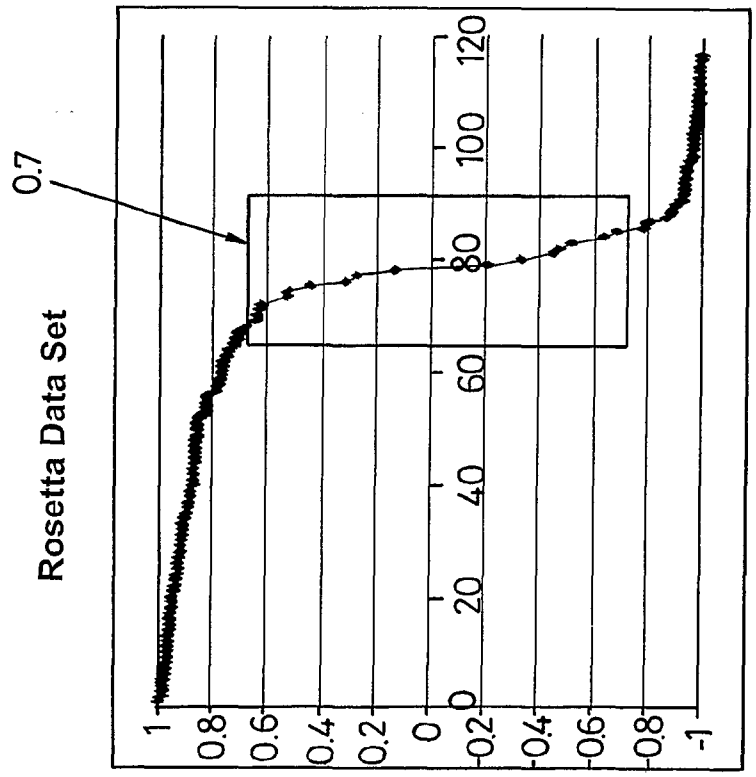

Rosetta Data Set
0.7
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
20
40
60
80
100
120

Fig. 7(a)