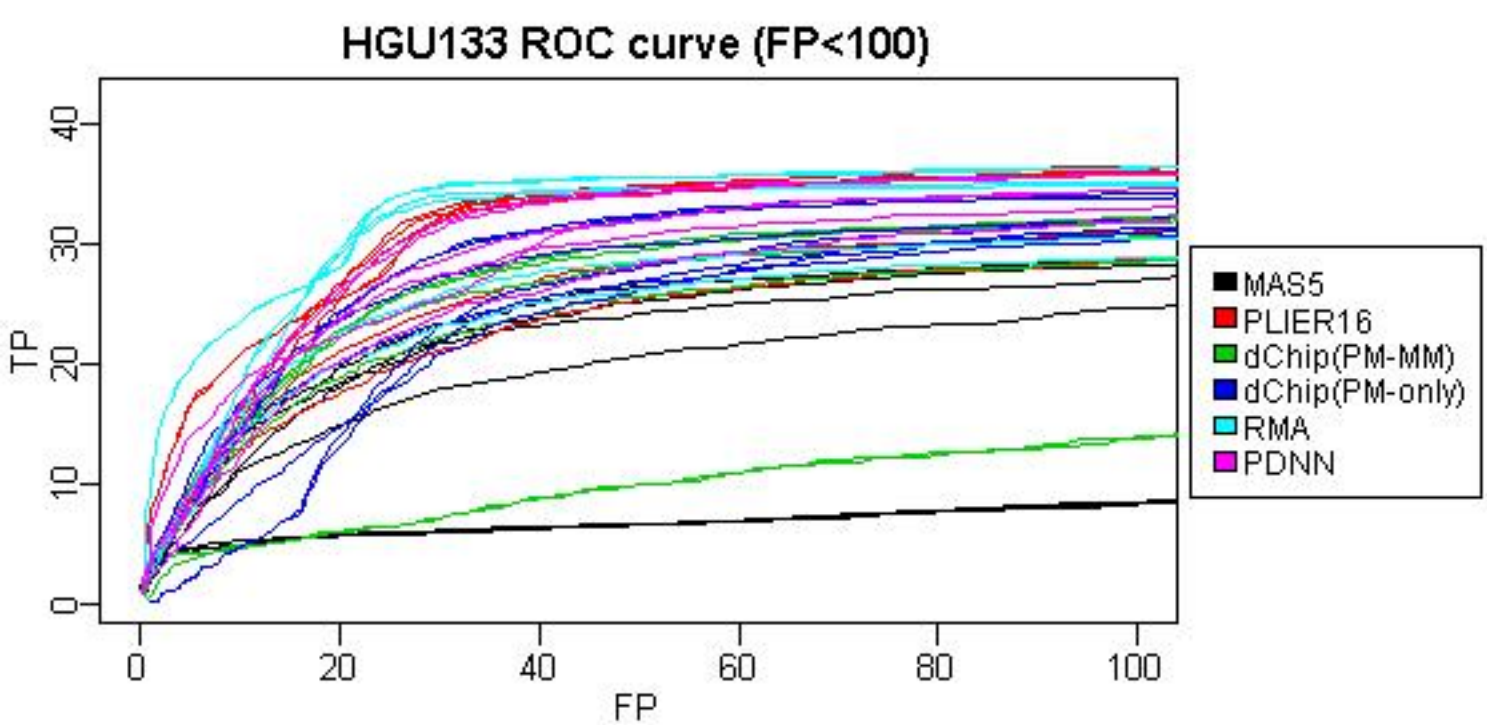

HGU133 ROC curve (FP<100)
TP
FP
0
10
20
30
40
0
20
40
60
80
100
MAS5
PLIER16
dChip(PM-MM)
dChip(PM-only)
RMA
PDNN

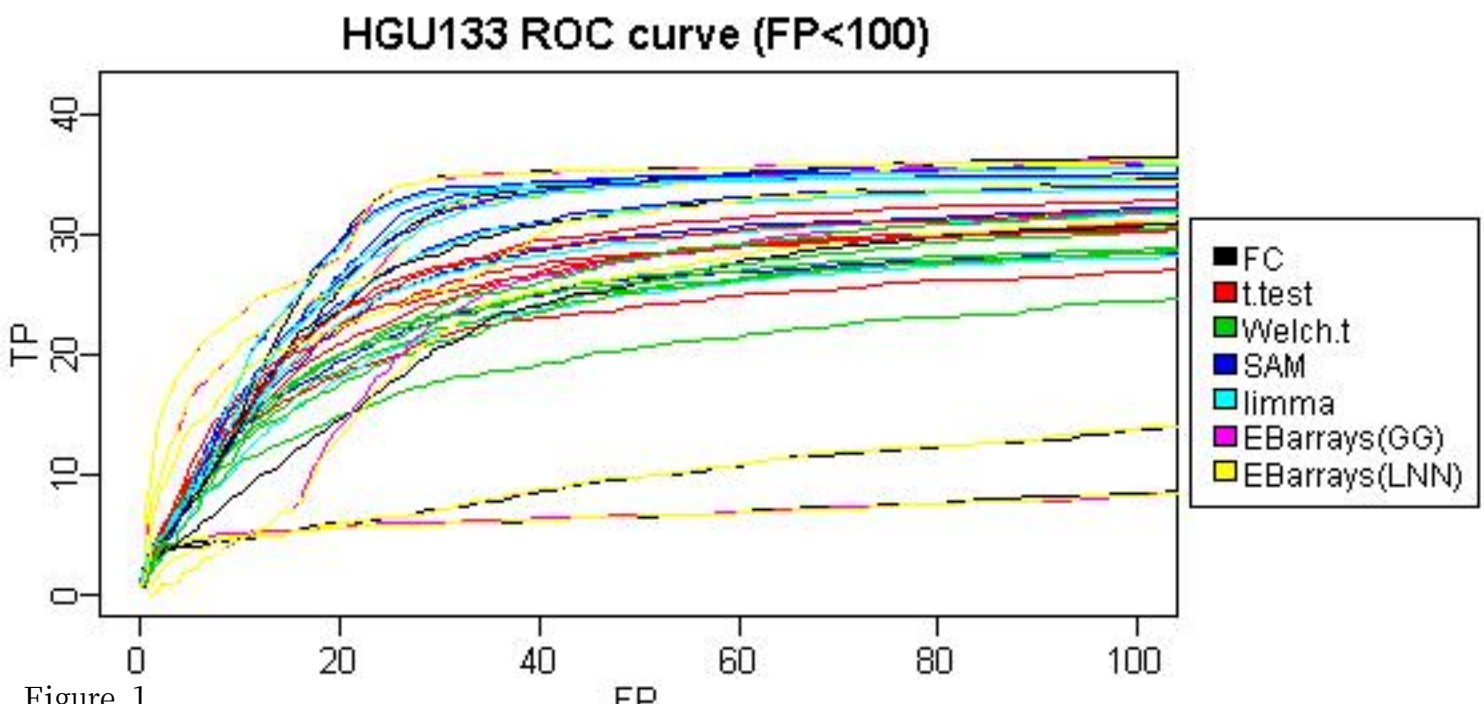
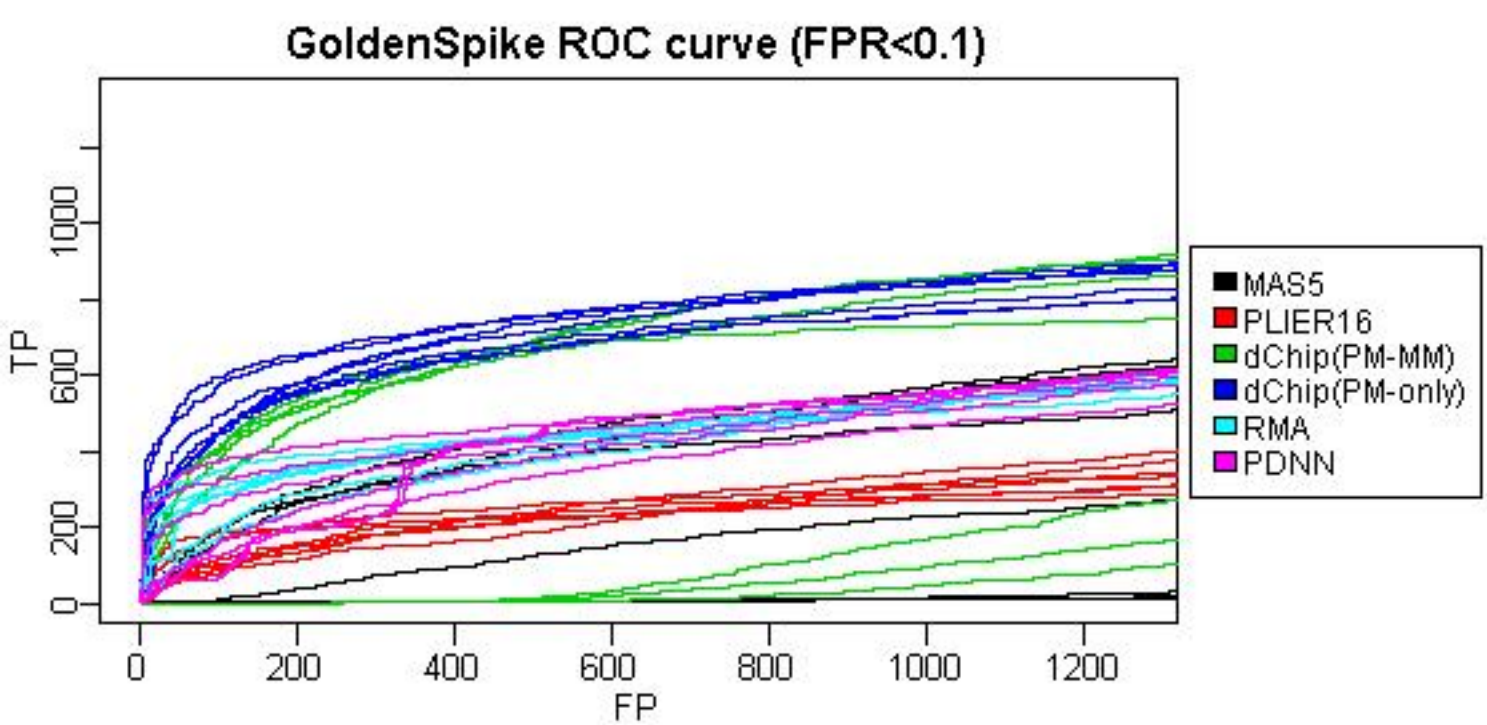

HGU133 ROC curve (FP<100)
TP
FP
0
10
20
30
40
0
20
40
60
80
100
FC
t.test
Welch.t
SAM
limma
EBarrays(GG)
EBarrays(LNN)

Figure 1


GoldenSpike ROC curve (FPR<0.1)
TP
FP
0
200
400
600
800
1000
1200
MAS5
PLIER16
dChip(PM-MM)
dChip(PM-only)
RMA
PDNN

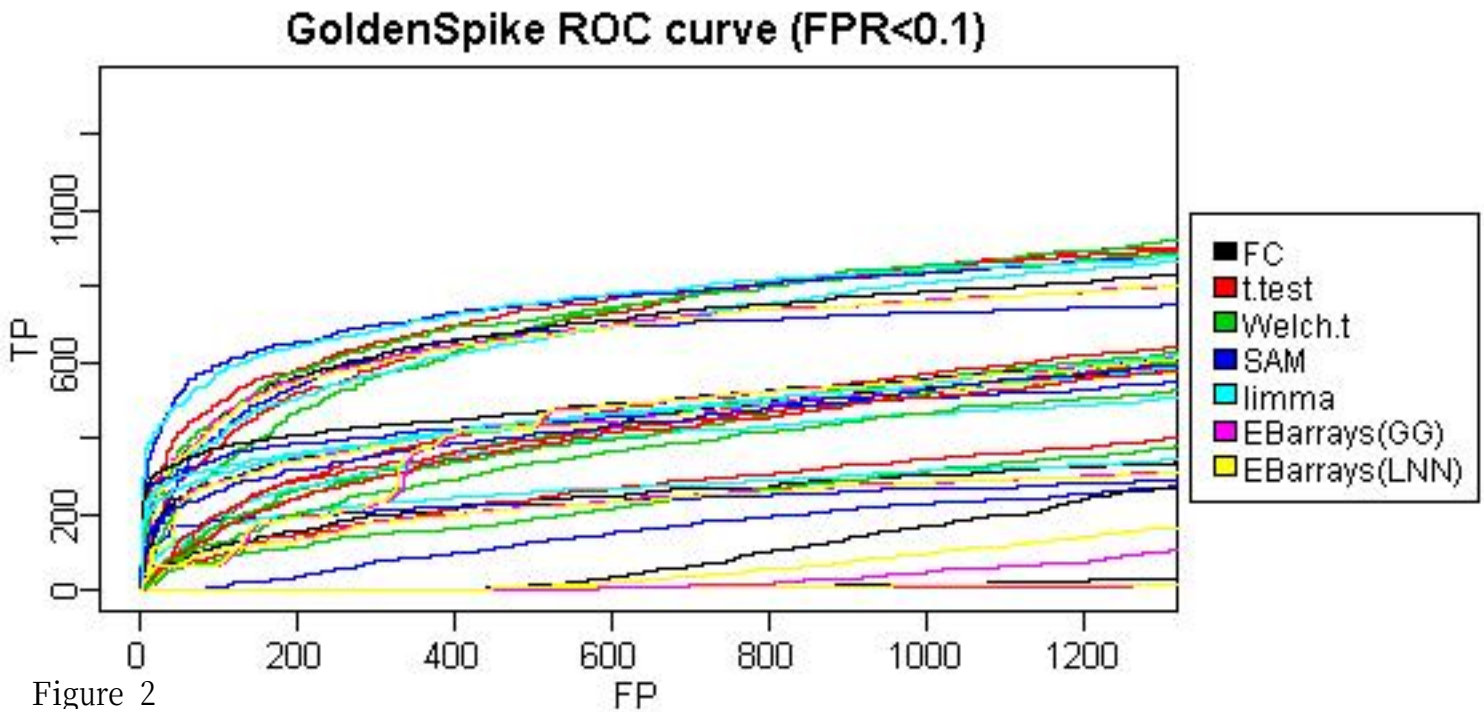
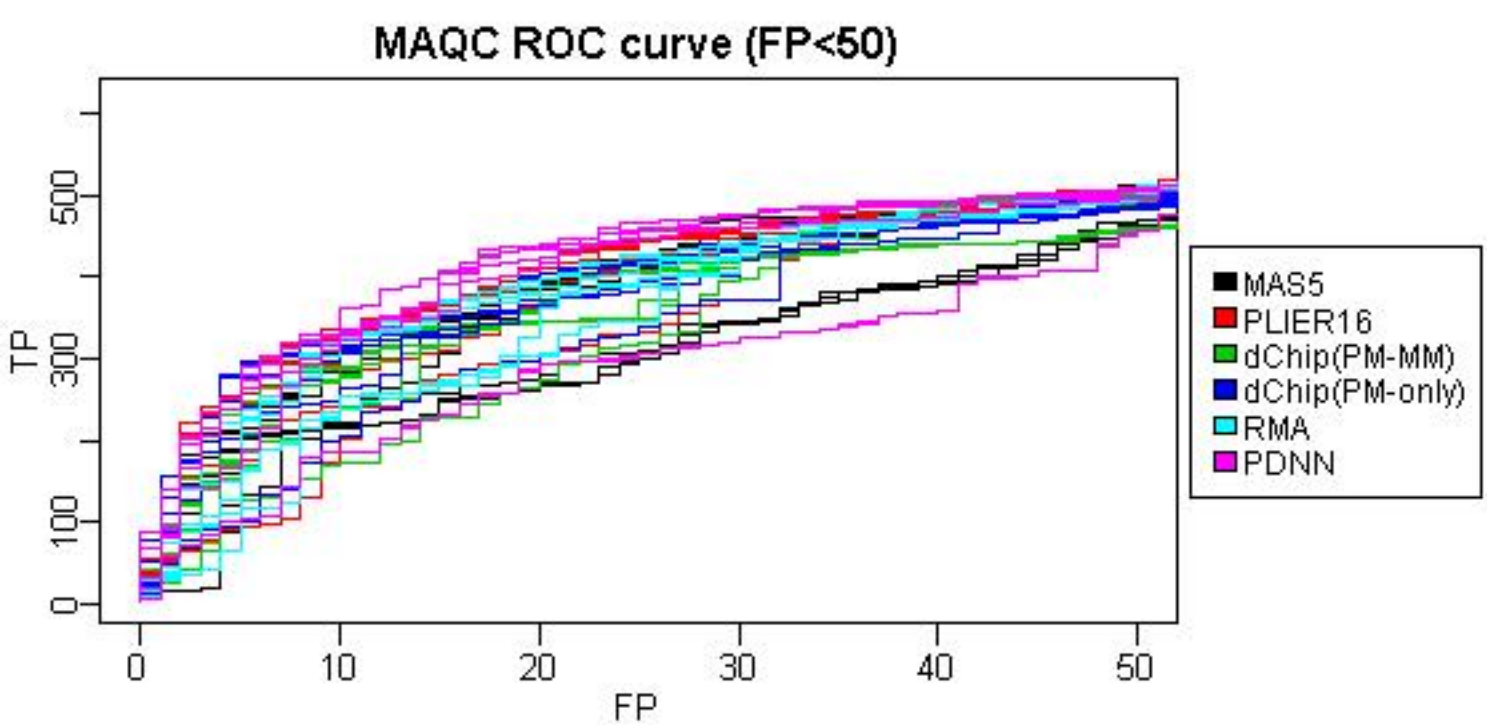

GoldenSpike ROC curve (FPR<0.1)
TP
FP
0
200
400
600
800
1000
1200
FC
t.test
Welch.t
SAM
limma
EBarrays(GG)
EBarrays(LNN)

Figure 2


MAQC ROC curve (FP<50)
TP
FP
0
100
300
500
0
10
20
30
40
50
MAS5
PLIER16
dChip(PM-MM)
dChip(PM-only)
RMA
PDNN

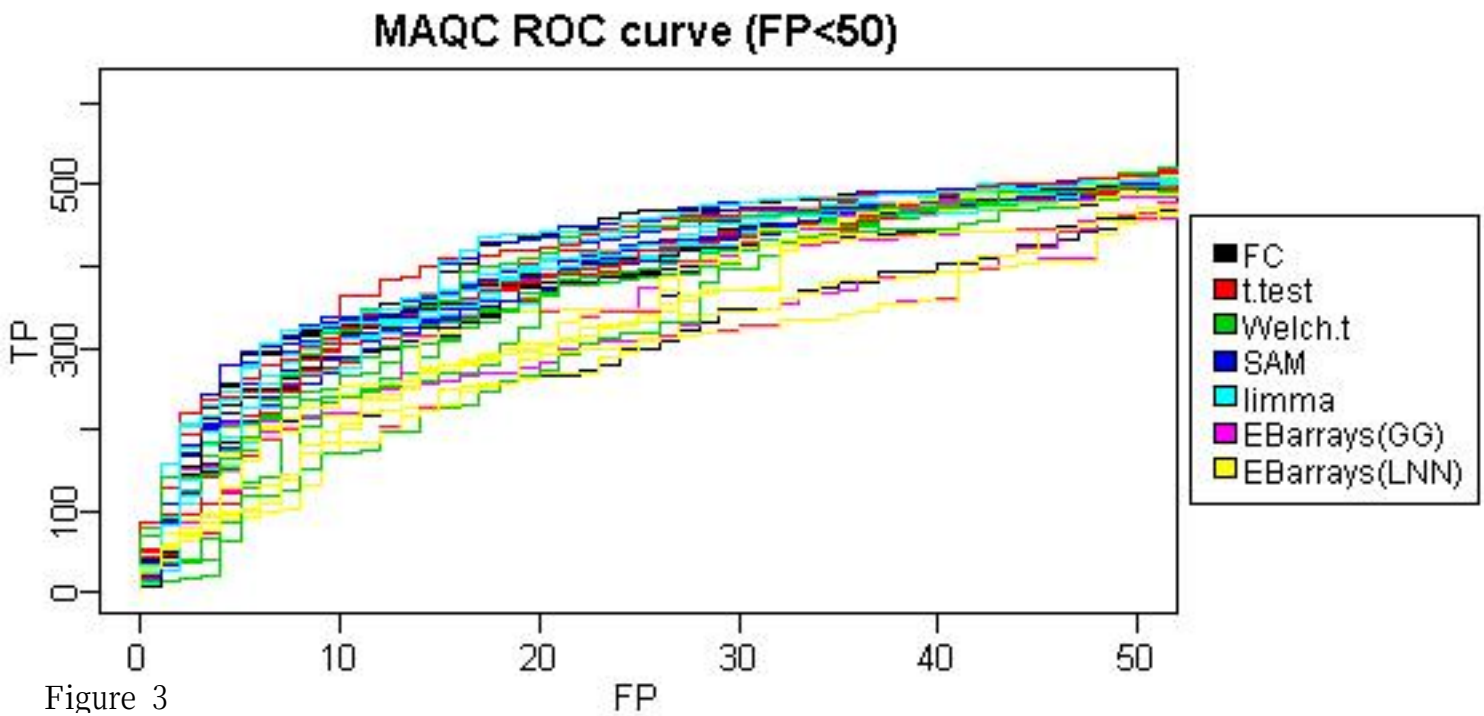

MAQC ROC curve (FP<50)
TP
FP
0
100
300
500
0
10
20
30
40
50
FC
t.test
Welch.t
SAM
limma
EBarrays(GG)
EBarrays(LNN)

Figure 3

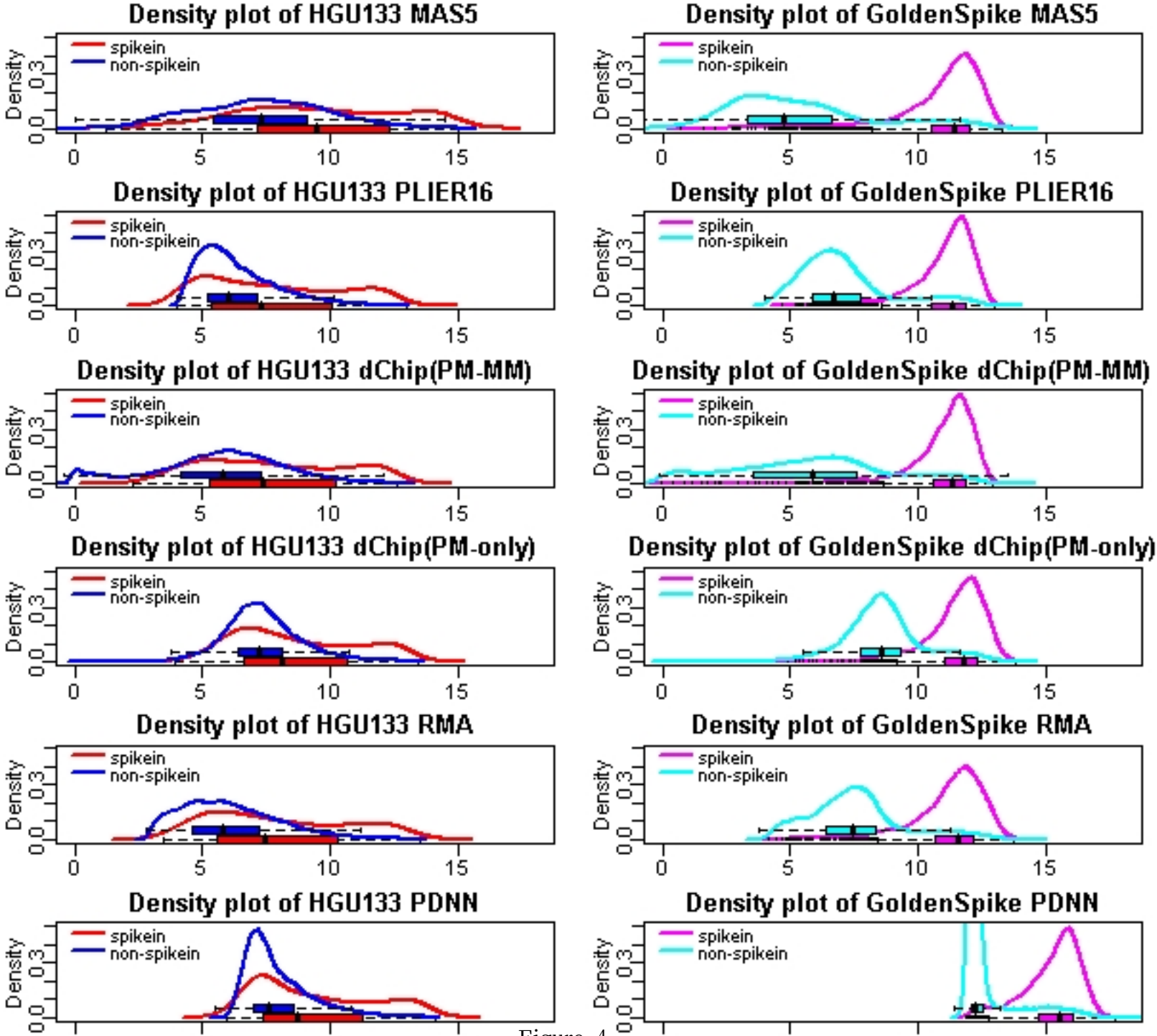

Density plot of HGU133 MAS5
Density plot of GoldenSpike MAS5
Density plot of HGU133 PLIER16
Density plot of GoldenSpike PLIER16
Density plot of HGU133 dChip(PM-MM)
Density plot of GoldenSpike dChip(PM-MM)
Density plot of HGU133 dChip(PM-only)
Density plot of GoldenSpike dChip(PM-only)
Density plot of HGU133 RMA
Density plot of GoldenSpike RMA
Density plot of HGU133 PDNN
Density plot of GoldenSpike PDNN
spikein
non-spikein
Density
0.0
0.3
0
5
10
15

Figure 4

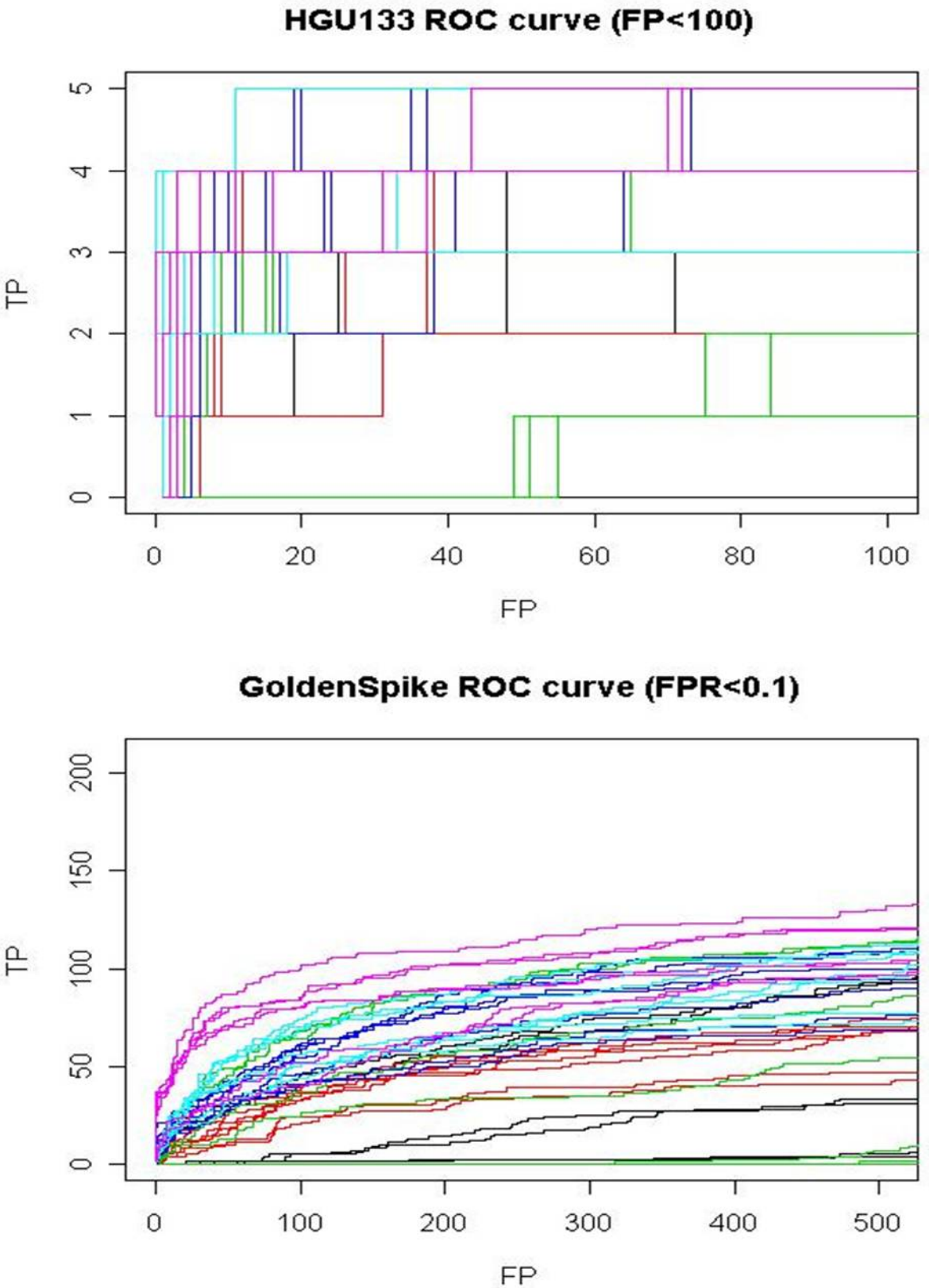

HGU133 ROC curve (FP<100)
TP
FP
0
1
2
3
4
5
0
20
40
60
80
100
GoldenSpike ROC curve (FPR<0.1)
TP
FP
0
50
100
150
200
0
100
200
300
400
500
MAS5
PLIER16
dChip(PM-MM)
dChip(PM-only)
RMA
PDNN

Figure 5

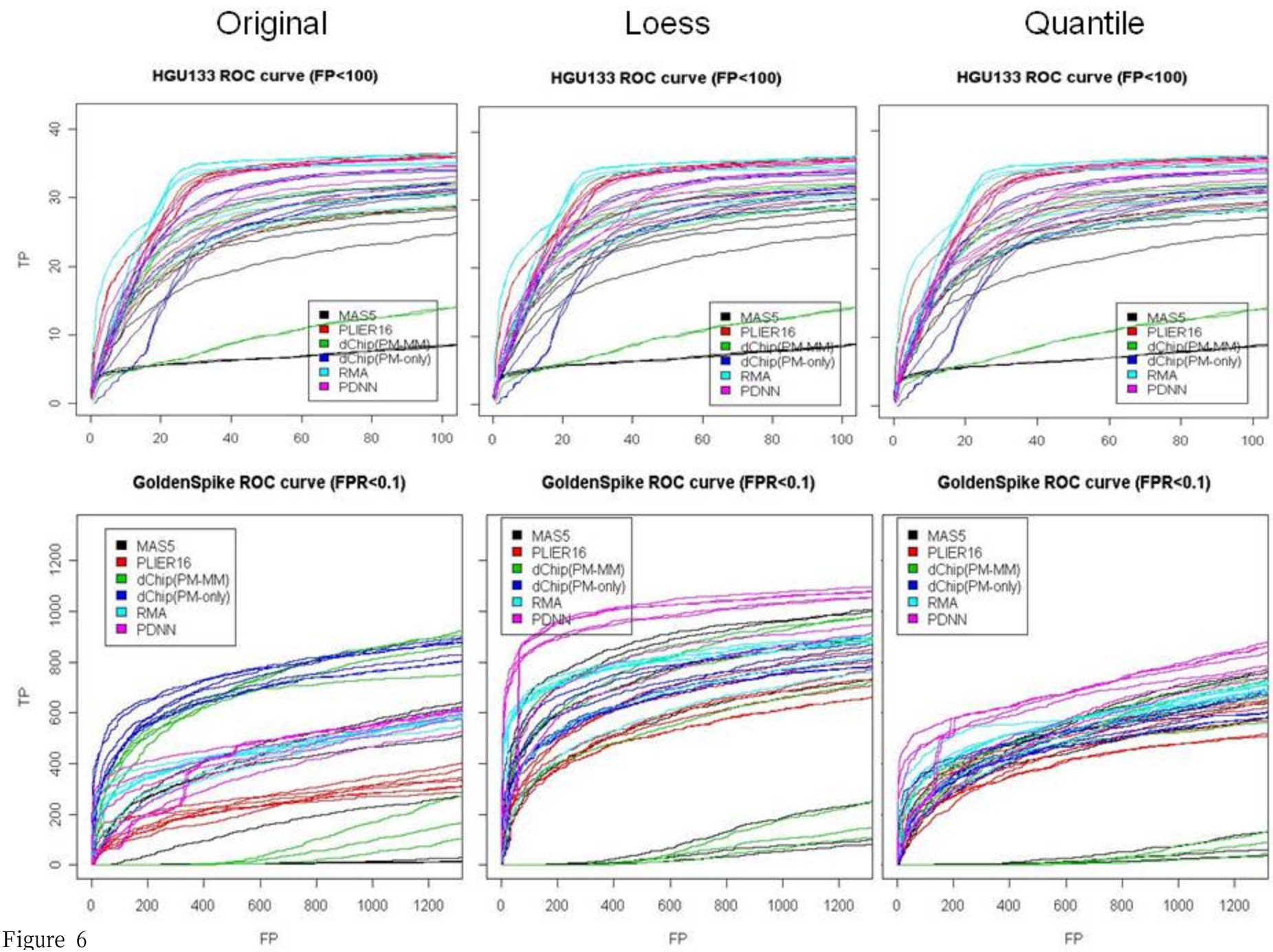
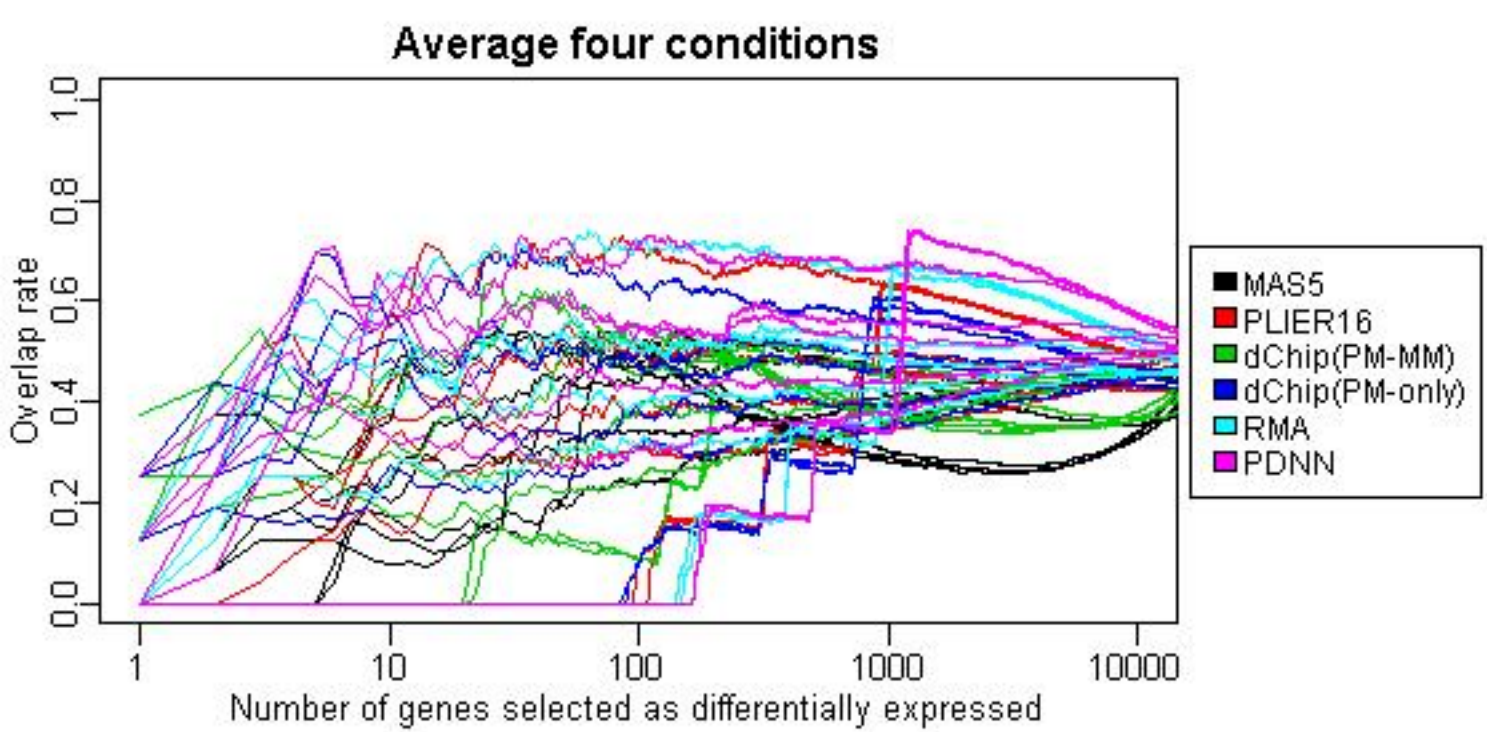

Original
Loess
Quantile
HGU133 ROC curve (FP<100)
HGU133 ROC curve (FP<100)
HGU133 ROC curve (FP<100)
TP
FP
MAS5
PLIER16
dChip(PM-MM)
dChip(PM-only)
RMA
PDNN
GoldenSpike ROC curve (FPR<0.1)
GoldenSpike ROC curve (FPR<0.1)
GoldenSpike ROC curve (FPR<0.1)

Figure 6


Average four conditions
Overlap rate
0.0
0.2
0.4
0.6
0.8
1.0
1
10
100
1000
10000
Number of genes selected as differentially expressed
MAS5
PLIER16
dChip(PM-MM)
dChip(PM-only)
RMA
PDNN

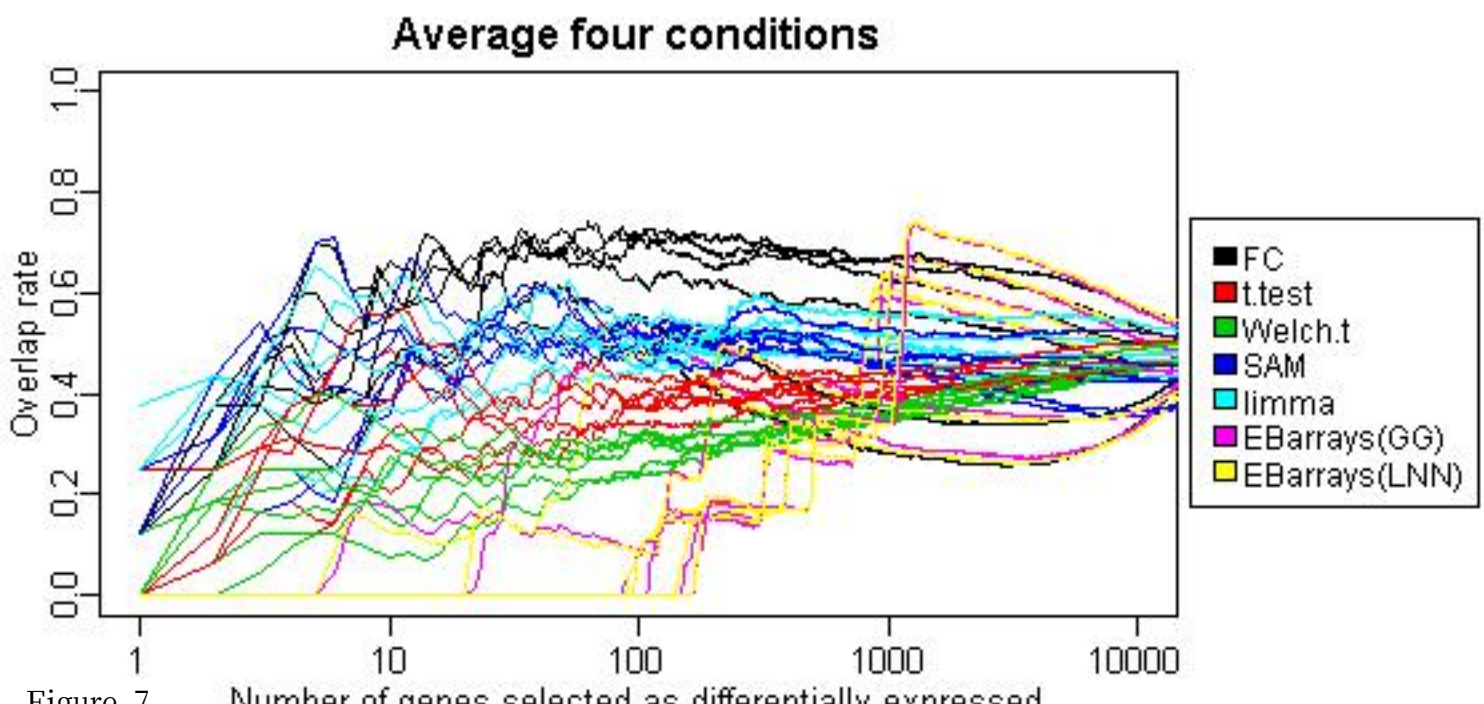

Average four conditions
Overlap rate
0.0
0.2
0.4
0.6
0.8
1.0
1
10
100
1000
10000
Number of genes selected as differentially expressed
FC
t.test
Welch.t
SAM
limma
EBarrays(GG)
EBarrays(LNN)

Figure 7