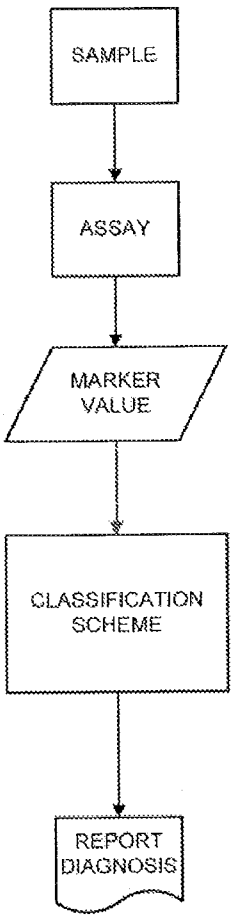

Figure 1A

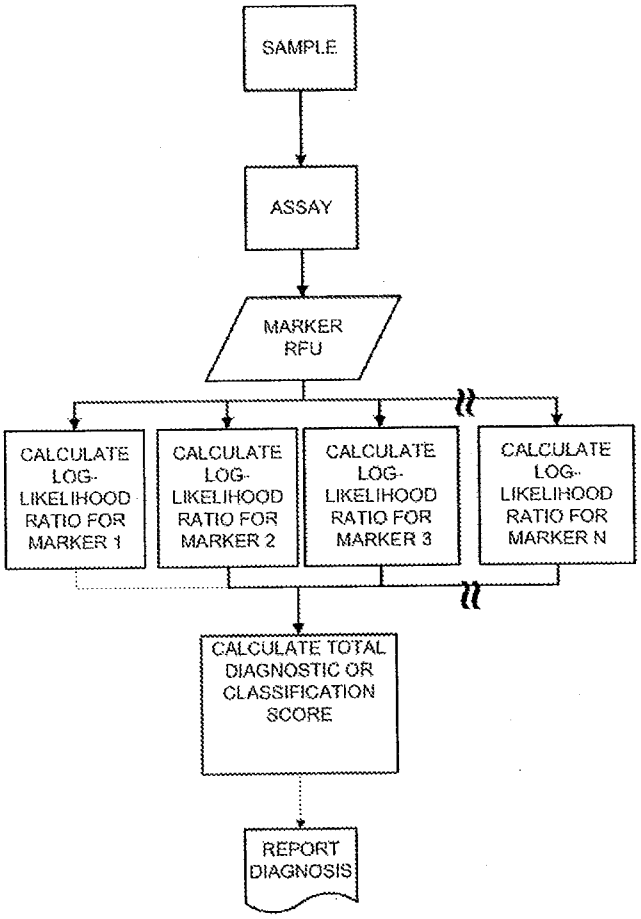

Figure 1B

Figure 1

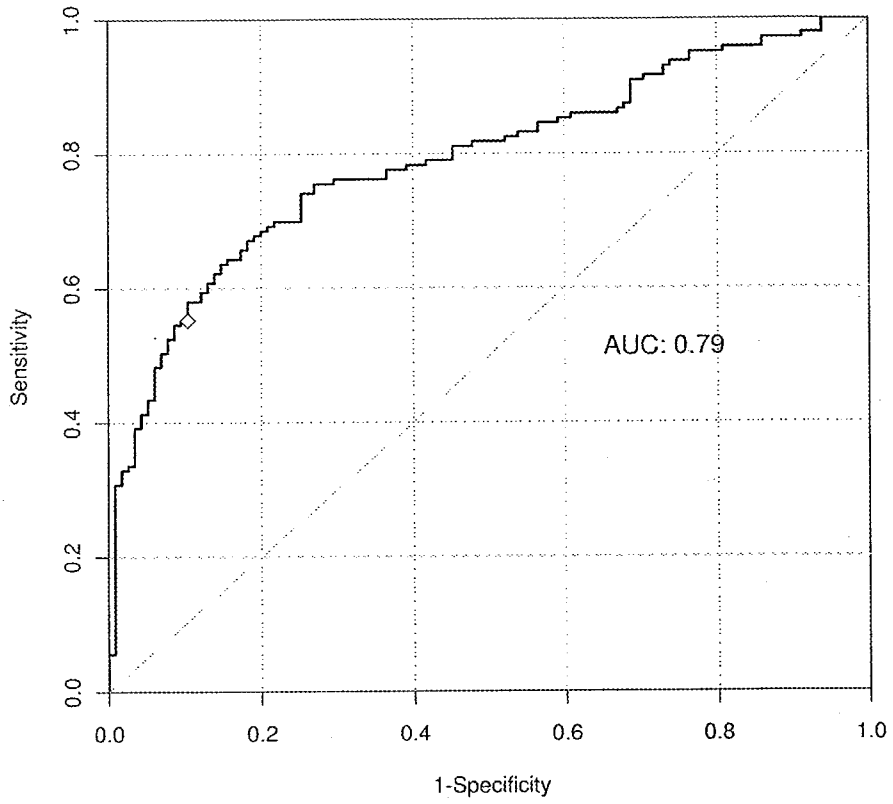

Figure 2

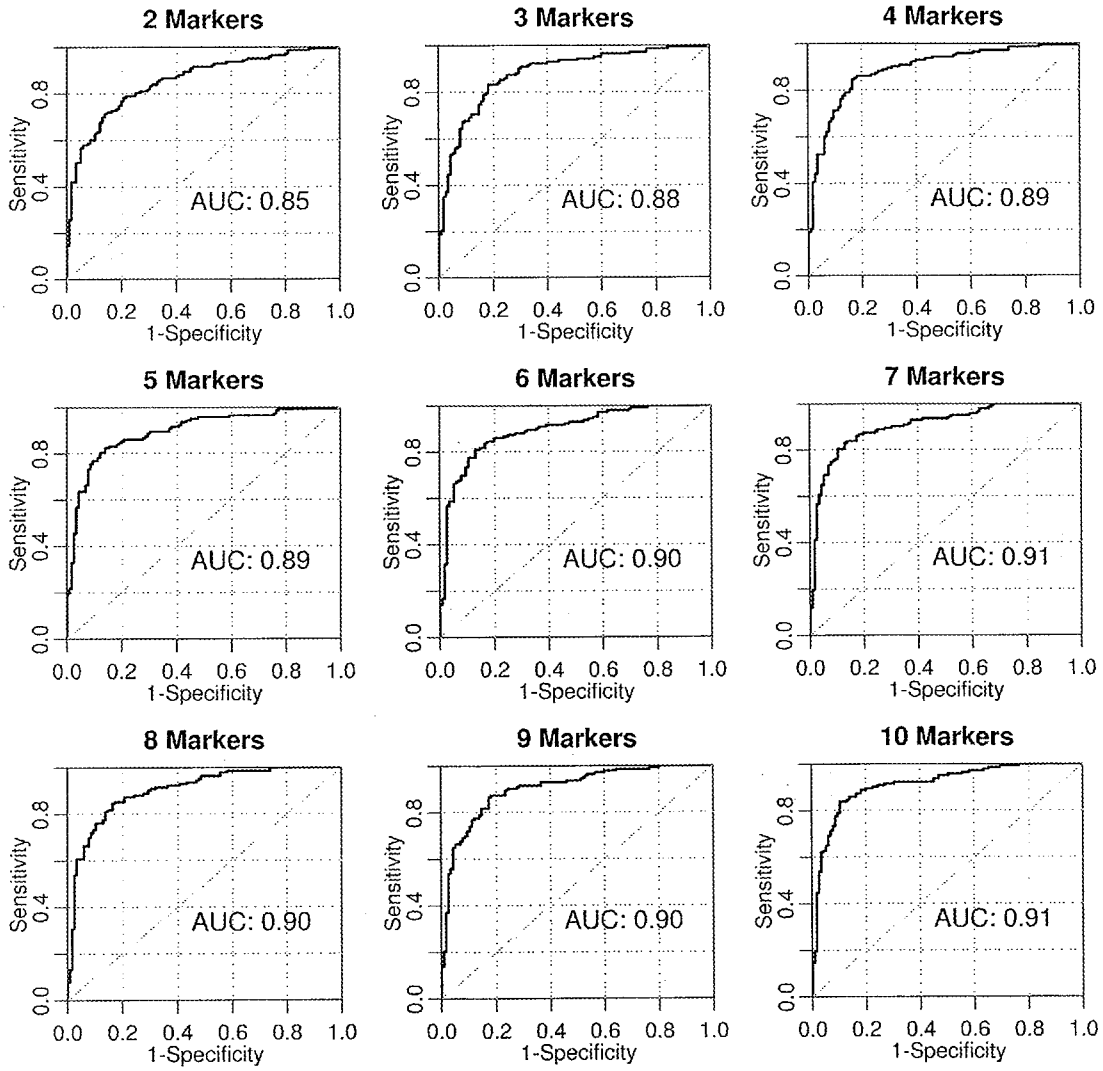
2 Markers
AUC: 0.85
3 Markers
AUC: 0.88
4 Markers
AUC: 0.89
5 Markers
AUC: 0.89
6 Markers
AUC: 0.90
7 Markers
AUC: 0.91
8 Markers
AUC: 0.90
9 Markers
AUC: 0.90
10 Markers
AUC: 0.91
Sensitivity
1-Specificity
0.0
0.2
0.4
0.6
0.8
1.0

Figure 3

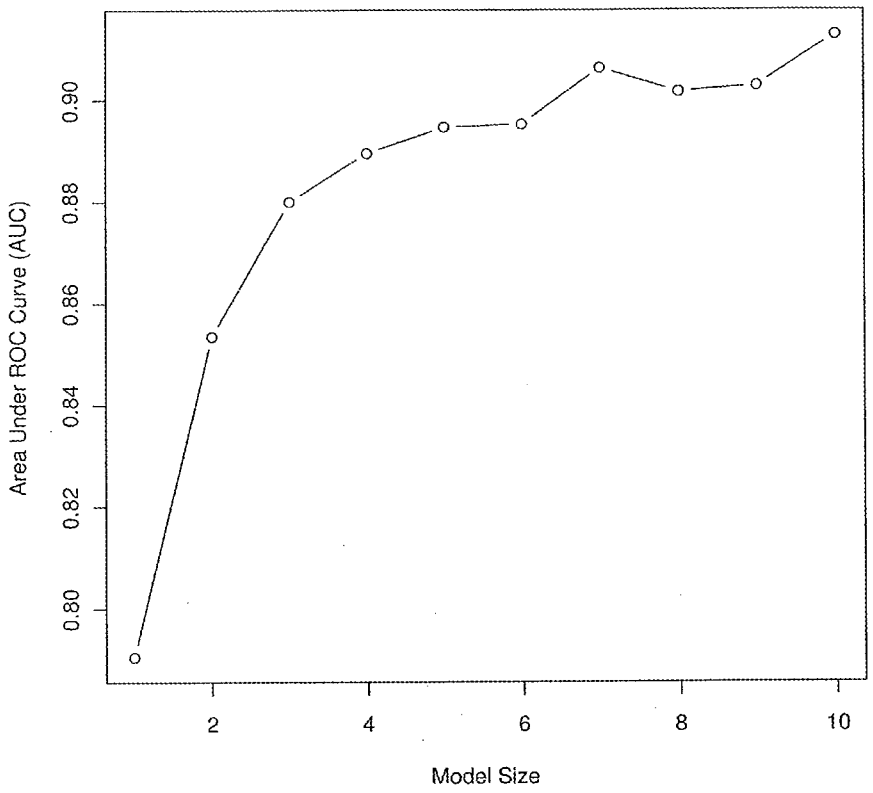
Area Under ROC Curve (AUC)
0.80
0.82
0.84
0.86
0.88
0.90
2
4
6
8
10
Model Size

Figure 4

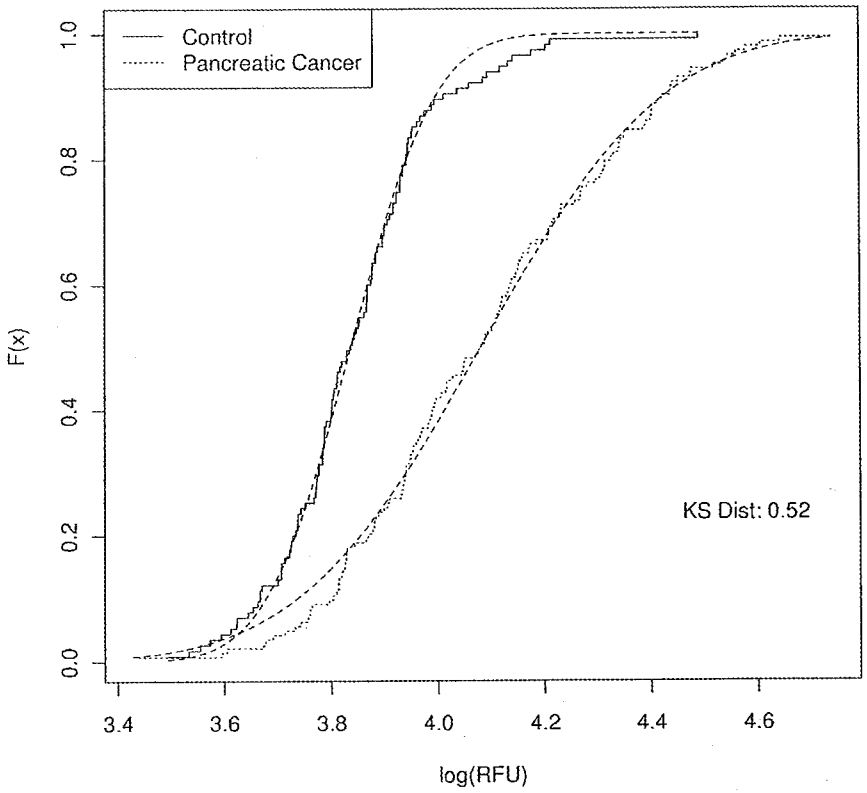
Control
Pancreatic Cancer
KS Dist: 0.52
F(x)
0.0
0.2
0.4
0.6
0.8
1.0
3.4
3.6
3.8
4.0
4.2
4.4
4.6
log(RFU)

Figure 5

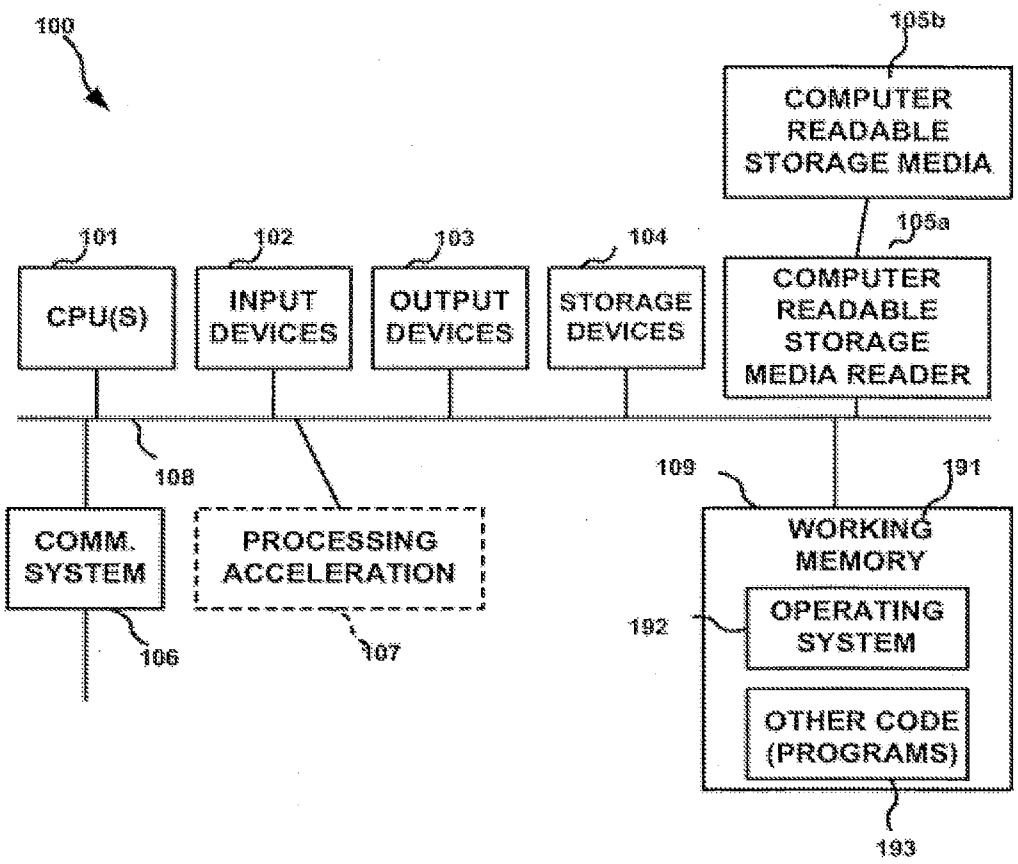
100
105b
COMPUTER READABLE STORAGE MEDIA
105a
101
102
103
104
CPU(S)
INPUT DEVICES
OUTPUT DEVICES
STORAGE DEVICES
COMPUTER READABLE STORAGE MEDIA READER
108
109
191
COMM. SYSTEM
PROCESSING ACCELERATION
WORKING MEMORY
192
OPERATING SYSTEM
OTHER CODE (PROGRAMS)
106
107
193

Figure 6

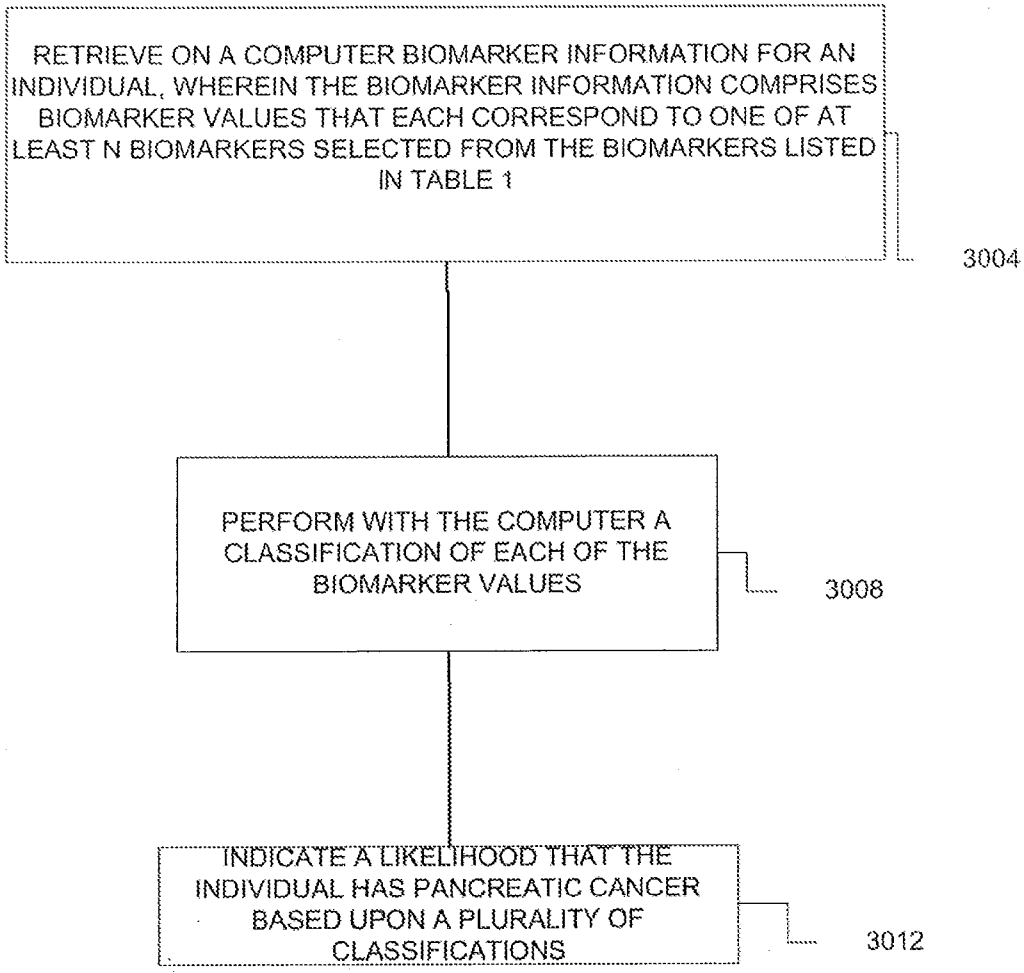
RETRIEVE ON A COMPUTER BIOMARKER INFORMATION FOR AN INDIVIDUAL, WHEREIN THE BIOMARKER INFORMATION COMPRISES BIOMARKER VALUES THAT EACH CORRESPOND TO ONE OF AT LEAST N BIOMARKERS SELECTED FROM THE BIOMARKERS LISTED IN TABLE 1
3004
PERFORM WITH THE COMPUTER A CLASSIFICATION OF EACH OF THE BIOMARKER VALUES
3008
INDICATE A LIKELIHOOD THAT THE INDIVIDUAL HAS PANCREATIC CANCER BASED UPON A PLURALITY OF CLASSIFICATIONS
3012
3000

Figure 7

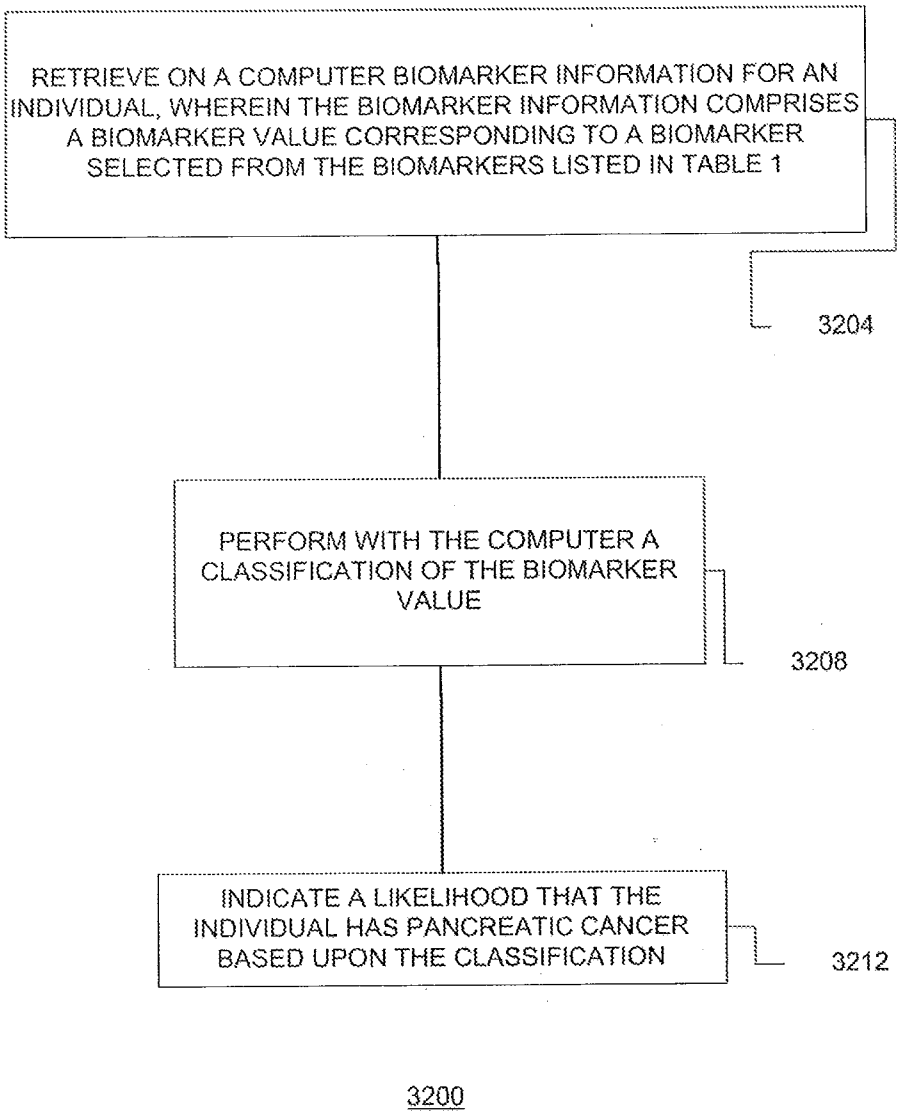
RETRIEVE ON A COMPUTER BIOMARKER INFORMATION FOR AN INDIVIDUAL, WHEREIN THE BIOMARKER INFORMATION COMPRISES A BIOMARKER VALUE CORRESPONDING TO A BIOMARKER SELECTED FROM THE BIOMARKERS LISTED IN TABLE 1
3204
PERFORM WITH THE COMPUTER A CLASSIFICATION OF THE BIOMARKER VALUE
3208
INDICATE A LIKELIHOOD THAT THE INDIVIDUAL HAS PANCREATIC CANCER BASED UPON THE CLASSIFICATION
3212
3200

Figure 8

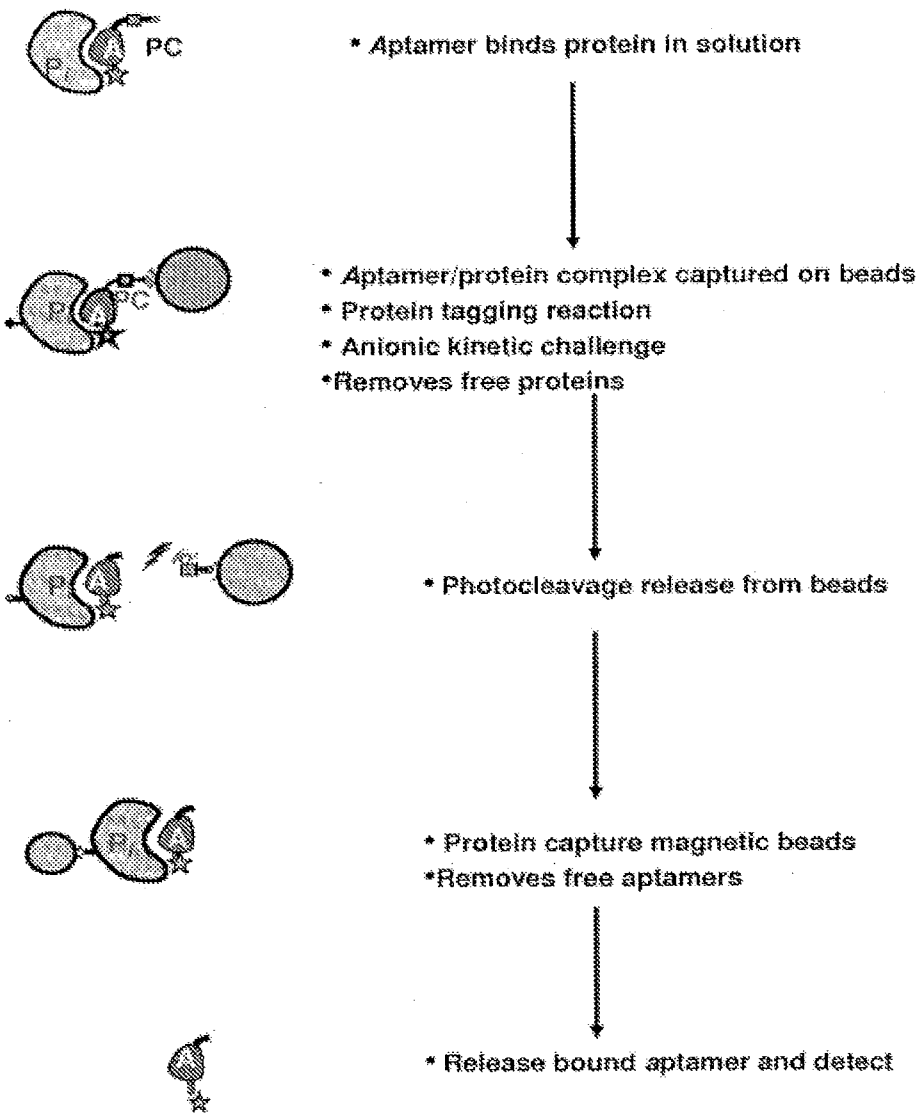
PC
* Aptamer binds protein in solution
* Aptamer/protein complex captured on beads
* Protein tagging reaction
* Anionic kinetic challenge
*Removes free proteins
* Photocleavage release from beads
* Protein capture magnetic beads
*Removes free aptamers
* Release bound aptamer and detect

Figure 9

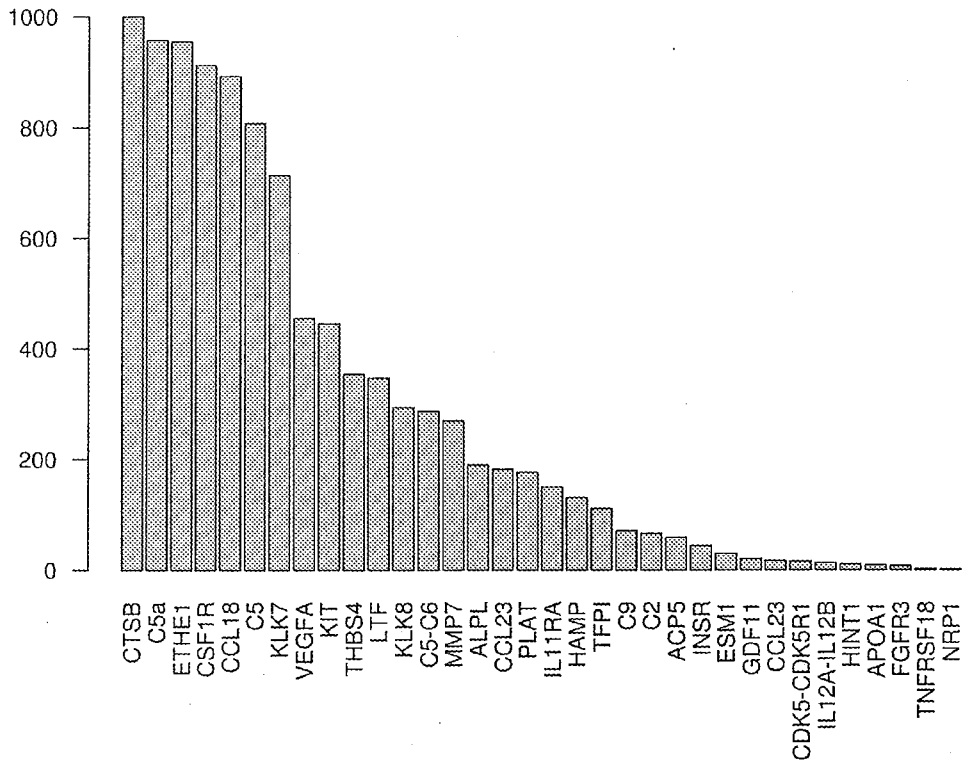
1000
800
600
400
200
0
CTSB
C5a
ETHE1
CSF1R
CCL18
C5
KLK7
VEGFA
KIT
THBS4
LTF
KLK8
C5-C6
MMP7
ALPL
CCL23
PLAT
IL11RA
HAMP
TFPI
C9
C2
ACP5
INSR
ESM1
GDF11
CCL23
CDK5-CDK5R1
IL12A-IL12B
HINT1
APOA1
FGFR3
TNFRSF18
NRP1

Figure 10

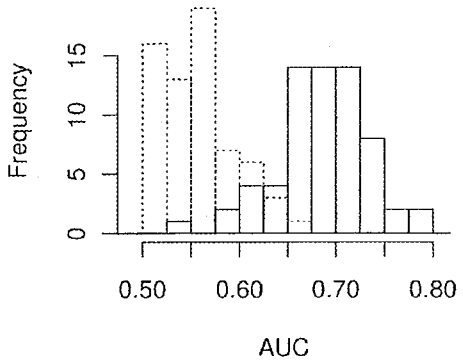

Figure 11A

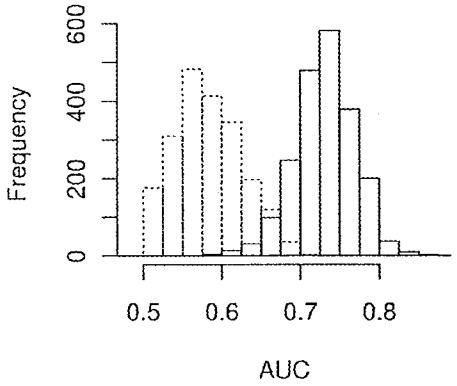

Figure 11B

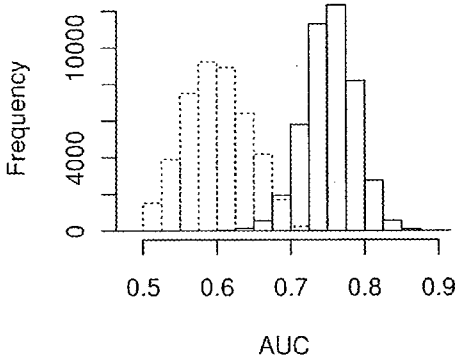

Figure 11C

Figure 11

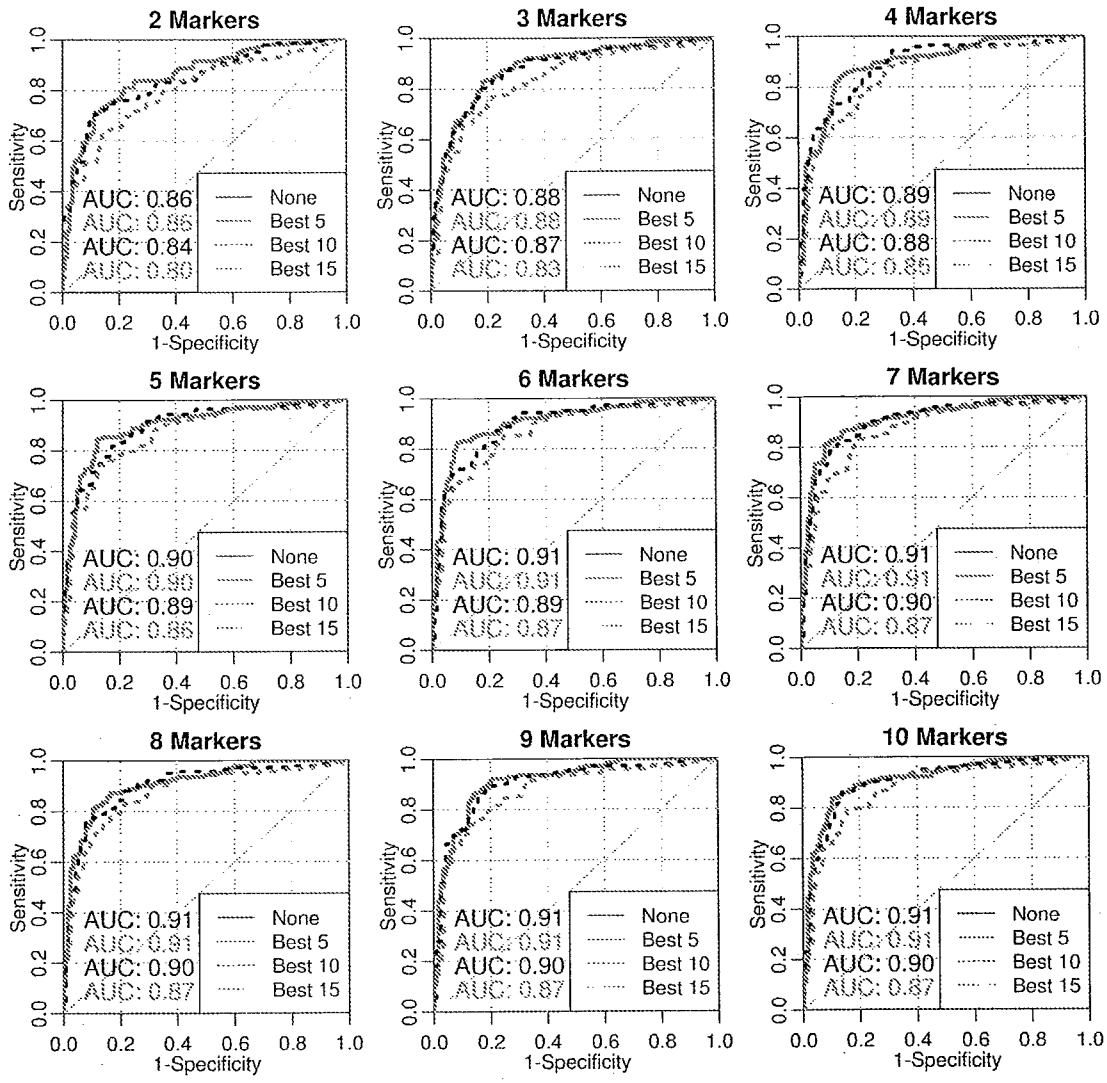
2 Markers
AUC: 0.86
AUC: 0.86
AUC: 0.84
AUC: 0.80
3 Markers
AUC: 0.88
AUC: 0.88
AUC: 0.87
AUC: 0.83
4 Markers
AUC: 0.89
AUC: 0.89
AUC: 0.88
AUC: 0.85
5 Markers
AUC: 0.90
AUC: 0.90
AUC: 0.89
AUC: 0.86
6 Markers
AUC: 0.91
AUC: 0.91
AUC: 0.89
AUC: 0.87
7 Markers
AUC: 0.91
AUC: 0.91
AUC: 0.90
AUC: 0.87
8 Markers
AUC: 0.91
AUC: 0.91
AUC: 0.90
AUC: 0.87
9 Markers
AUC: 0.91
AUC: 0.91
AUC: 0.90
AUC: 0.87
10 Markers
AUC: 0.91
AUC: 0.91
AUC: 0.90
AUC: 0.87
None
Best 5
Best 10
Best 15
Sensitivity
1-Specificity
0.0
0.2
0.4
0.6
0.8
1.0

Figure 12

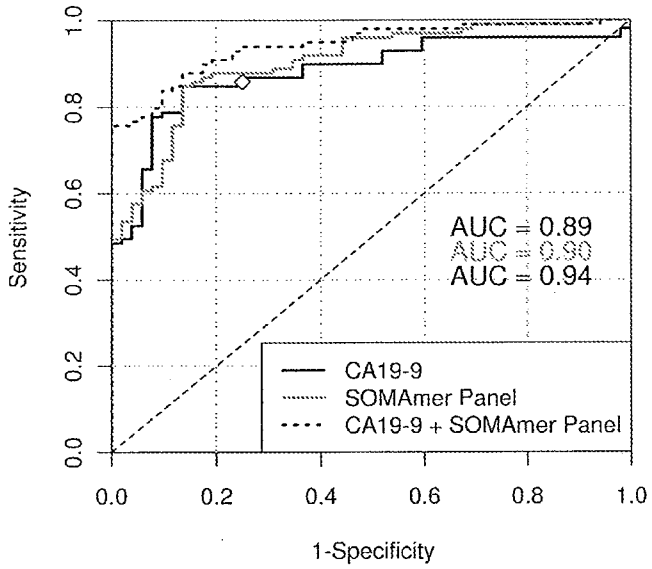

Figure 13

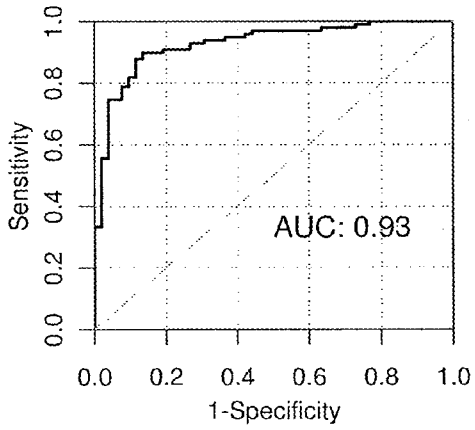

Figure 14A

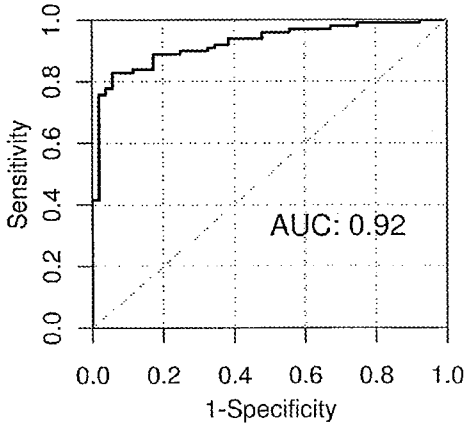

Figure 14B

Figure 14

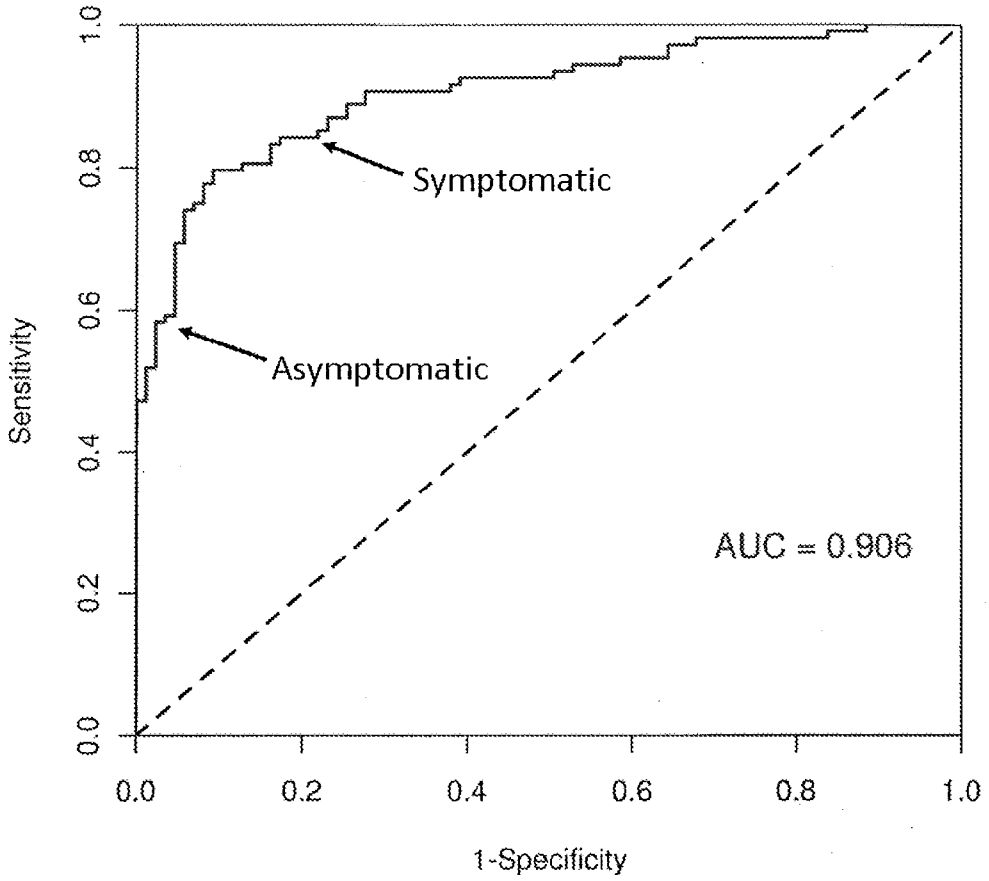
Sensitivity
1-Specificity
0.0
0.2
0.4
0.6
0.8
1.0
Symptomatic
Asymptomatic
AUC = 0.906

Figure 15

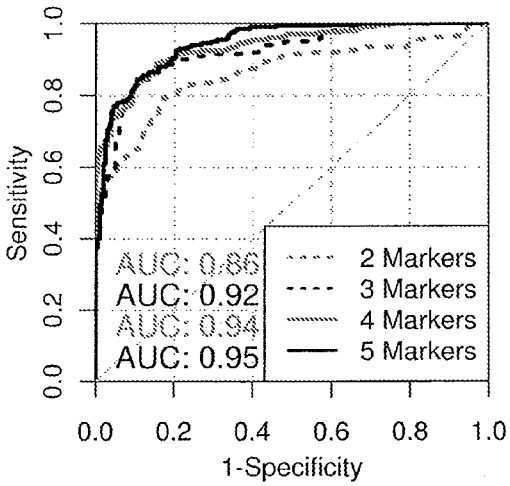

Figure 16A

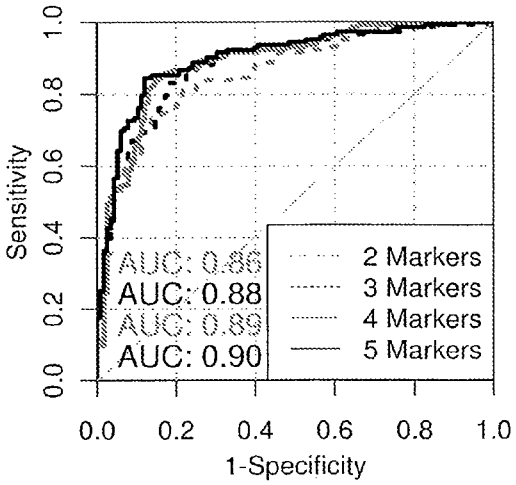

Figure 16B

Figure 16

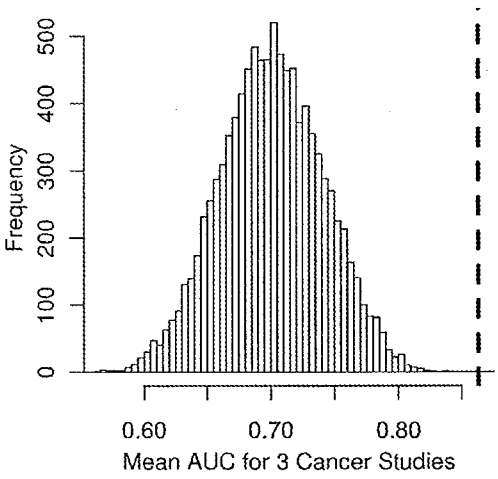

Figure 17A

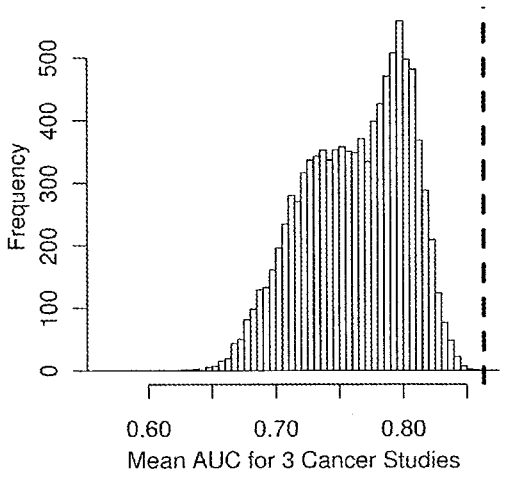

Figure 17B

Figure 17

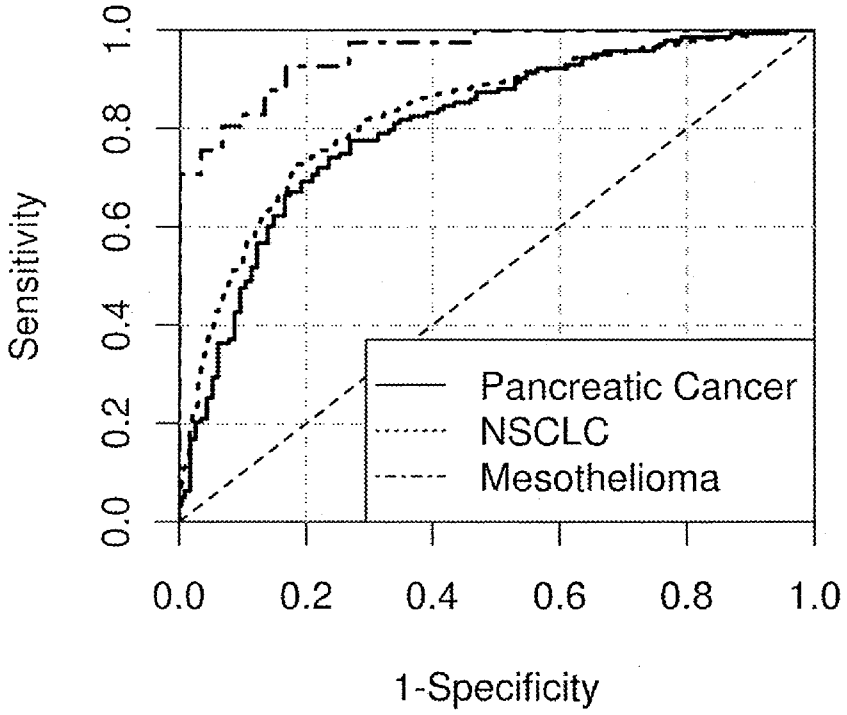
Sensitivity
0.0
0.2
0.4
0.6
0.8
1.0
1-Specificity
Pancreatic Cancer
NSCLC
Mesothelioma

Figure 18