

Sensitivity, specificity, %undetermined, and quality (sensitivity + specificity - %undetermined) for each of the best distance-dependent 6-nearest neighbor classifiers using any of the 22 putative biomarkers.

Metric	1-ad	2-ad	3-ad	1-rd	2-rd	3-rd	2-cr	3-cr	2-sd	3-sd
Sens	64.3	68.3	71.8	61.9	78.1	78.6	77.1	73.5	71.8	75.8
Spec	68.3	69.0	69.0	65.0	74.2	85.2	69.4	79.4	74.3	79.4
%Undet	1.2	1.2	3.6	2.4	25.0	34.5	15.5	19.0	11.9	20.2
Quality	131.4	136.2	137.3	124.5	127.3	129.2	131.1	133.9	134.2	134.9

Sensitivity, specificity, %undetermined, and quality (sensitivity + specificity - %undetermined) for each of the best distance-dependent 6-nearest neighbor classifiers using any of the 22 putative biomarkers with the caveat that %Undetermined cannot exceed 5.0%.

Metric	1-ad	2-ad	3-ad	1-rd	2-rd	3-rd	2-cr	3-cr	2-sd	3-sd
Sens	64.3	68.3	71.8	61.9	None	None	50.0	None	50.0	None
Spec	68.3	69.0	69.0	65.0	None	None	66.7	None	66.7	None
%Undet	1.2	1.2	3.6	2.4	None	None	3.6	None	3.6	None
Quality	131.4	136.2	137.3	124.5	None	None	113.1	None	113.1	None

Fingerprint Analysis

Sensitivity, specificity and quality (sensitivity + specificity) for the best and 200th best decision tree constructed from any of the 300 peak intensities. The evolutionary programming search used a population size of 200 and ran for 400 generations. A decision node became a terminal node when it contained 1% (no samples) or 4% (1 sample) of a given State.

Metric	1%		1%		4%		4%	
	1 st	200 th						
Sensitivity	88.1	88.1	92.9	90.5	88.1	88.1	88.1	90.5
Specificity	95.2	95.2	95.2	95.2	97.6	97.6	95.2	90.5
Quality	183.3	183.3	187.1	185.7	185.7	185.7	183.3	181.0

Sensitivity, specificity and quality (sensitivity + specificity) for the best and 200th best medoid classifier algorithm in each of the two runs using 5-, 6-, and 7-peak intensities from the set of 300. The evolutionary programming search used a population size of 400 and ran for 800 generations with the requirement that there are at most 28 Case-cells and 28 Control-cells.

Metric	5-Features		5-Features		6-Features		6-Features		7-Features		7-Features	
	1 st	200 th										
Sens	100.0	100.0	95.2	88.1	100.0	100.0	95.2	90.5	100.0	100.0	97.6	92.9
Spec	92.9	88.1	100.0	100.0	97.6	90.5	100.0	100.0	97.6	92.9	100.0	100.0
Quality	192.9	188.1	195.2	188.1	197.6	190.5	195.2	190.5	197.6	192.9	197.6	192.9

(Last updated 4/21/07)