

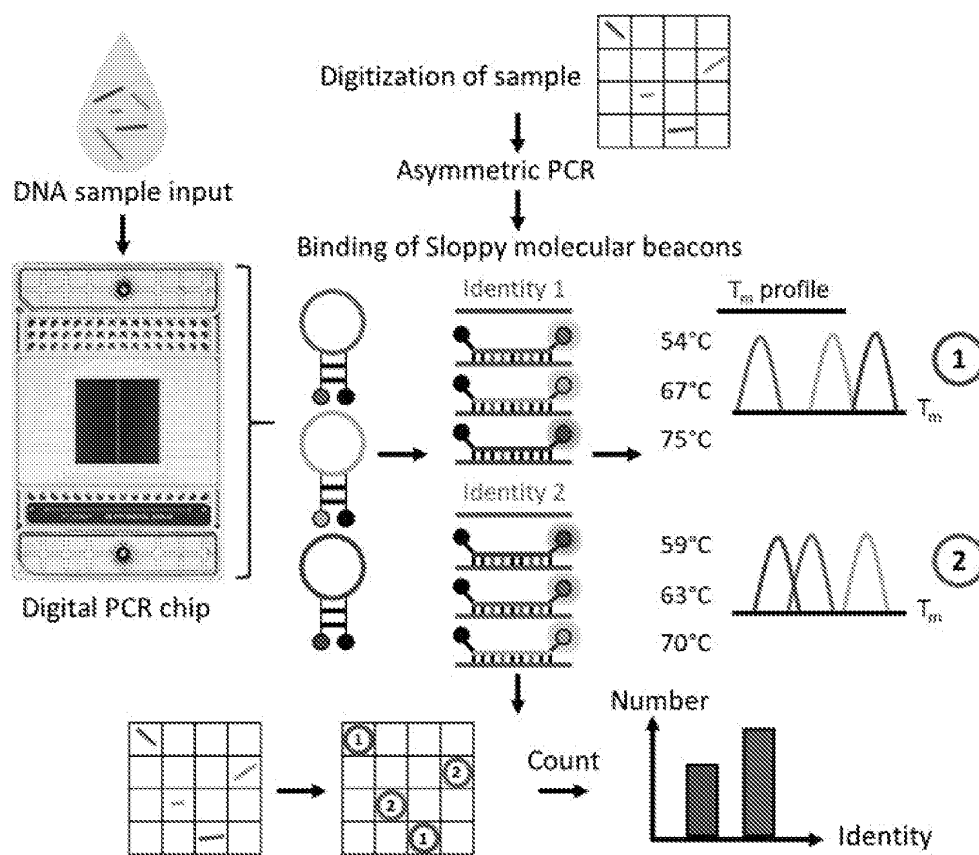
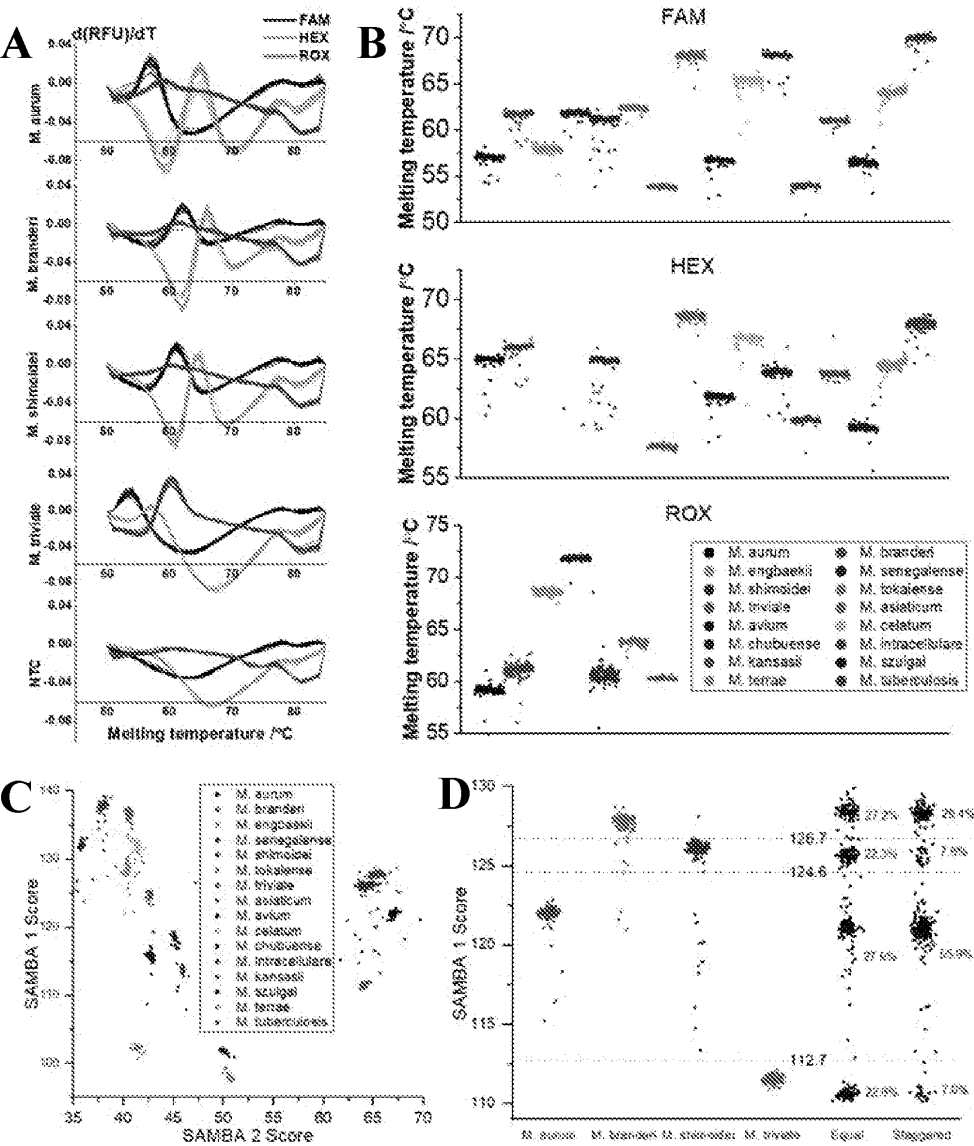


Fig. 1



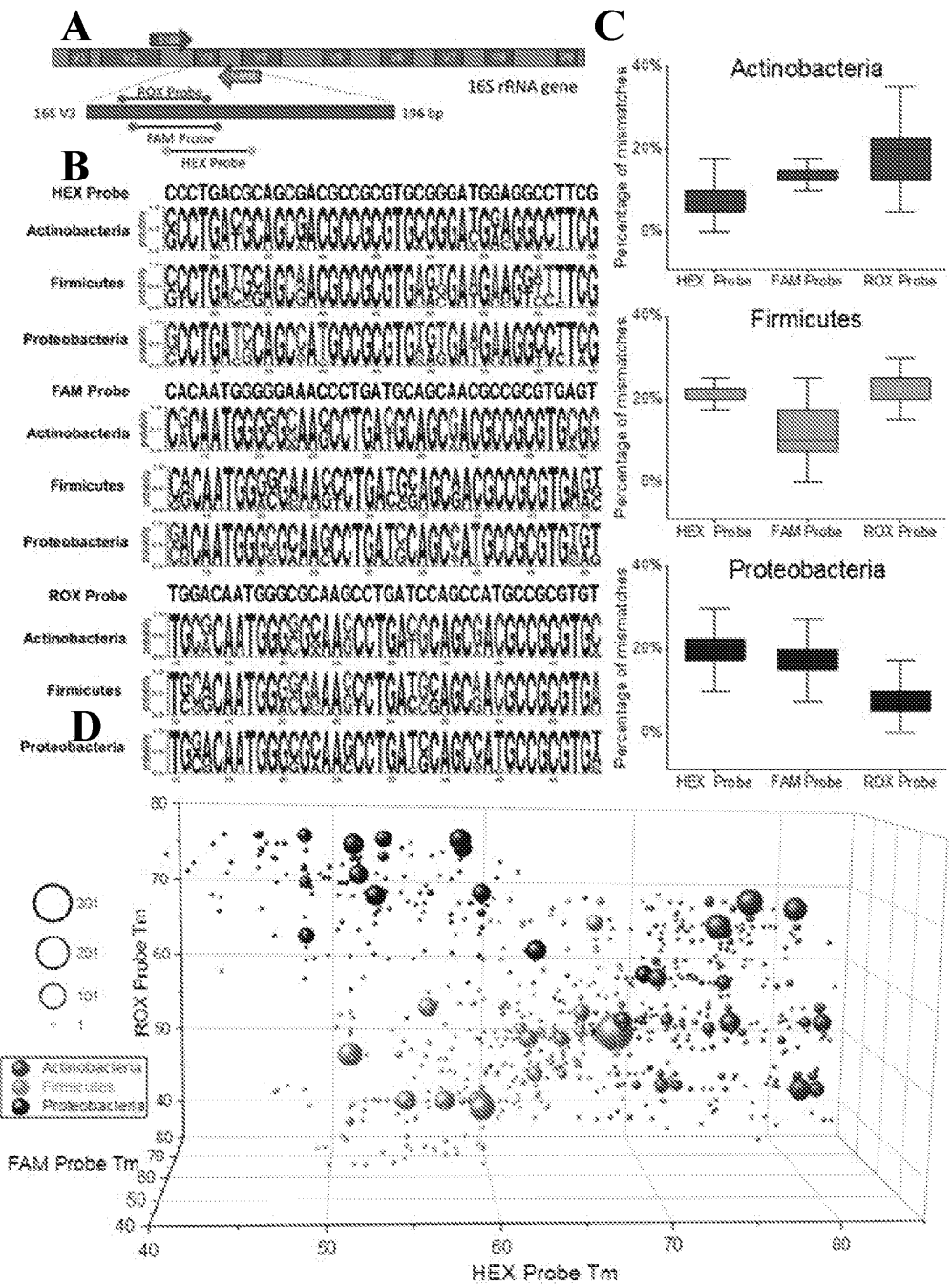


Fig. 3

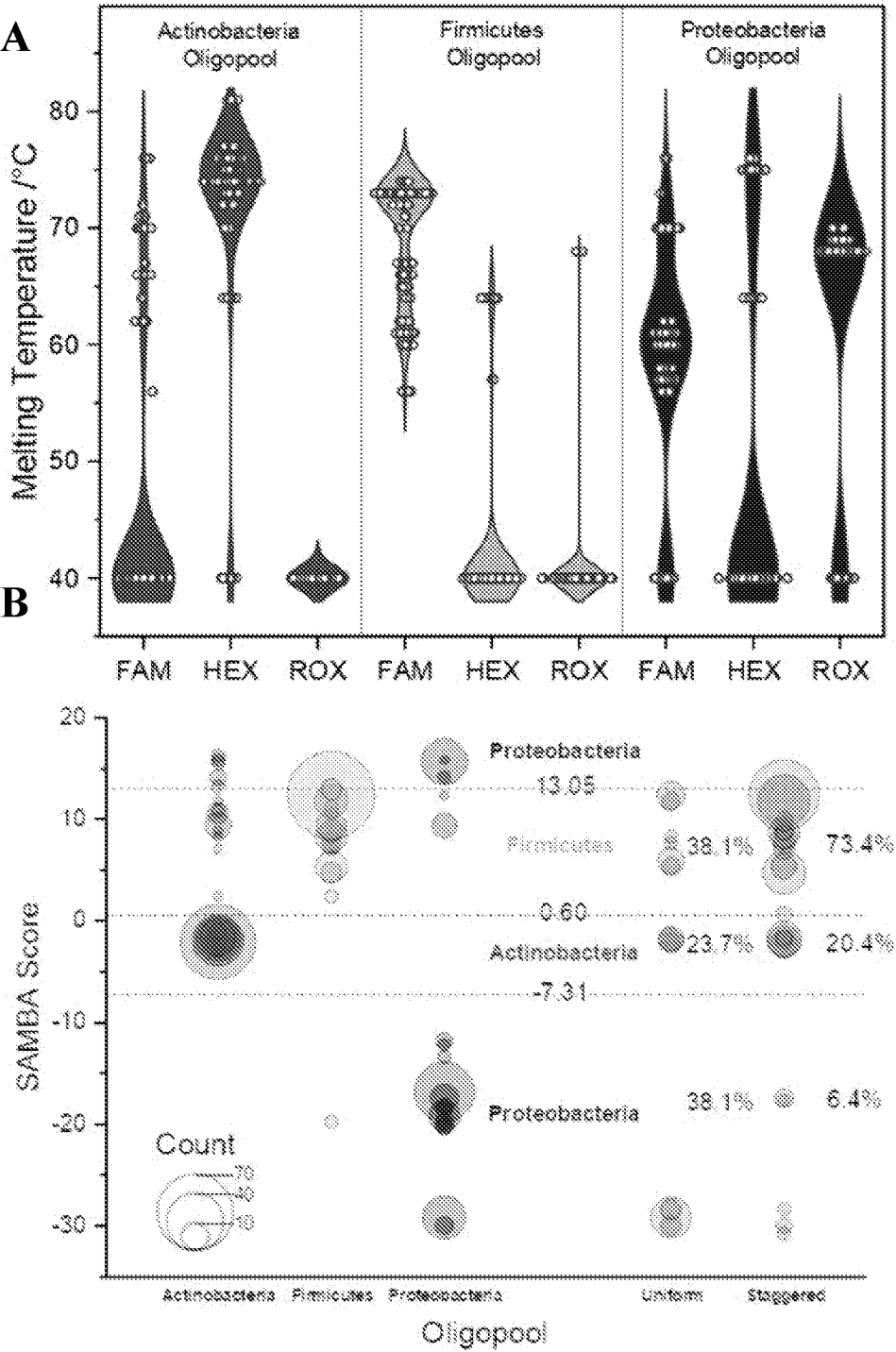
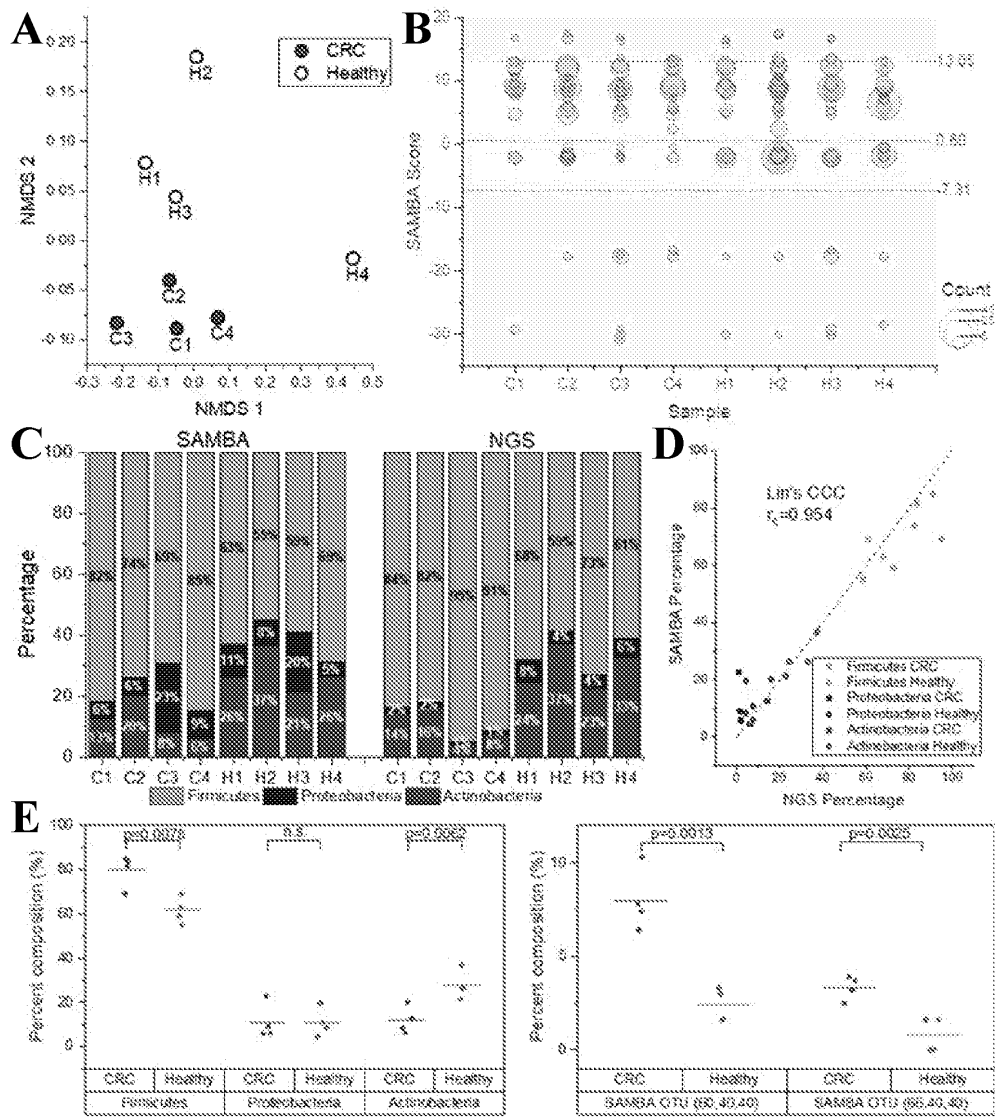


Fig. 4



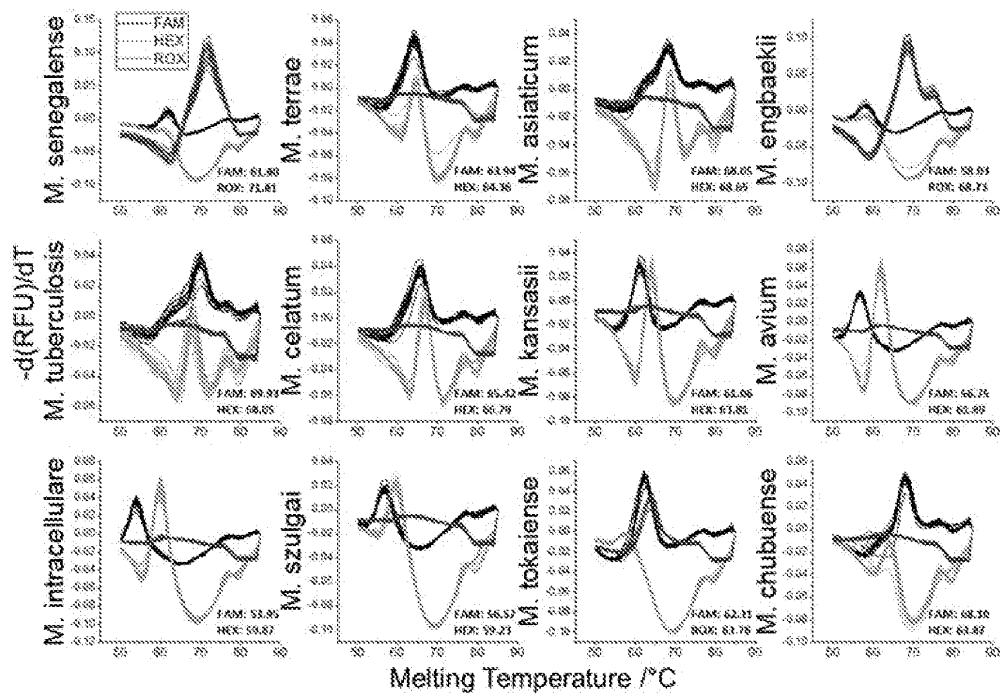


Fig. 6

Class counts for Panel ID													
Class:	M. asiaticum	M. aurum	M. branderi	M. celatum	M. chubense	M. chubensis	M. engbaekii	M. intracellulare	M. kanazui	M. kansasii	M. kansasii	M. kansasii	M. senegalense
Count:	105	105	105	105	105	105	105	105	105	105	105	105	105
Total count: 1580													
Threshold to used for zero probabilities: 1.0E-4													
Gaussian distribution for FAM per class value													
Count:	M. asiaticum	M. aurum	M. branderi	M. celatum	M. chubense	M. chubensis	M. engbaekii	M. intracellulare	M. kanazui	M. kansasii	M. kansasii	M. kansasii	M. senegalense
Mean:	67.8819	56.55718	61.68615	65.2817	67.88118	57.98106	51.81133	61.30595	61.81155	56.4347	62.30326	53.85765	69.87849
Std. Deviation:	0.42613	0.5781	0.47452	0.69355	0.56708	0.22403	0.13399	0.2682	0.17393	0.42939	0.2581	0.2573	0.48495
Rate:	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Gaussian distribution for IFX per class value													
Count:	M. asiaticum	M. aurum	M. branderi	M. celatum	M. chubense	M. chubensis	M. engbaekii	M. intracellulare	M. kanazui	M. kansasii	M. kansasii	M. kansasii	M. senegalense
Mean:	58.55603	54.48688	61.75643	65.02817	66.08386	63.83378	40	59.41125	63.76559	40.38144	40	57.8997	64.63477
Std. Deviation:	0.60378	0.17772	0.41578	0.55668	0.38515	0.61486	0.0041	0.34466	0.35688	2.76861	0.4327	0.4651	0.5647
Rate:	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
Gaussian distribution for KOX per class value													
Count:	M. asiaticum	M. aurum	M. branderi	M. celatum	M. chubense	M. chubensis	M. engbaekii	M. intracellulare	M. kanazui	M. kansasii	M. kansasii	M. kansasii	M. senegalense
Mean:	40	38.67305	40	41.68216	40	40	68.67896	40	40	71.82469	40	40	63.70648
Std. Deviation:	0.0001	2.50257	0.0091	3.03675	0.0001	0.0001	0.14513	0.0001	0.0001	0.11517	0.0001	0.22309	0.0001
Rate:	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%

Fig. 7A

Panel ID Prediction (panel ID):	M. senegalensis	M. terreus	M. asiaticum	M. exiguum	M. tuberum	M. celatum	M. kansasii	N. avium	M. intracellulare	N. subsp.	M. tuberculosis	M. chelonae	M. abscessus	M. branderi	N. asteroides	M. triovale
M. goodii	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
M. terrae	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M. asiaticum	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0
M. exiguum	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0
M. tuberum	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0
M. celatum	0	0	0	0	0	43	1	0	0	0	0	0	0	0	0	0
M. kansasii	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0
M. intracellulare	0	0	0	0	0	0	0	44	0	1	0	0	0	0	0	0
M. abscessus	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0
M. triovale	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0
M. chelonae	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0
M. abscessus	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0
M. branderi	0	0	0	0	0	0	0	0	0	0	0	0	44	1	0	0
M. asteroides	0	0	0	0	0	0	1	0	0	0	0	0	0	2	71	0
M. triovale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45

Correct classified: 708

Accuracy: 98.333 %

Cohen's kappa (κ): 0.992

Wrong classified: 12

Error: 1.667 %

Fig. 7B

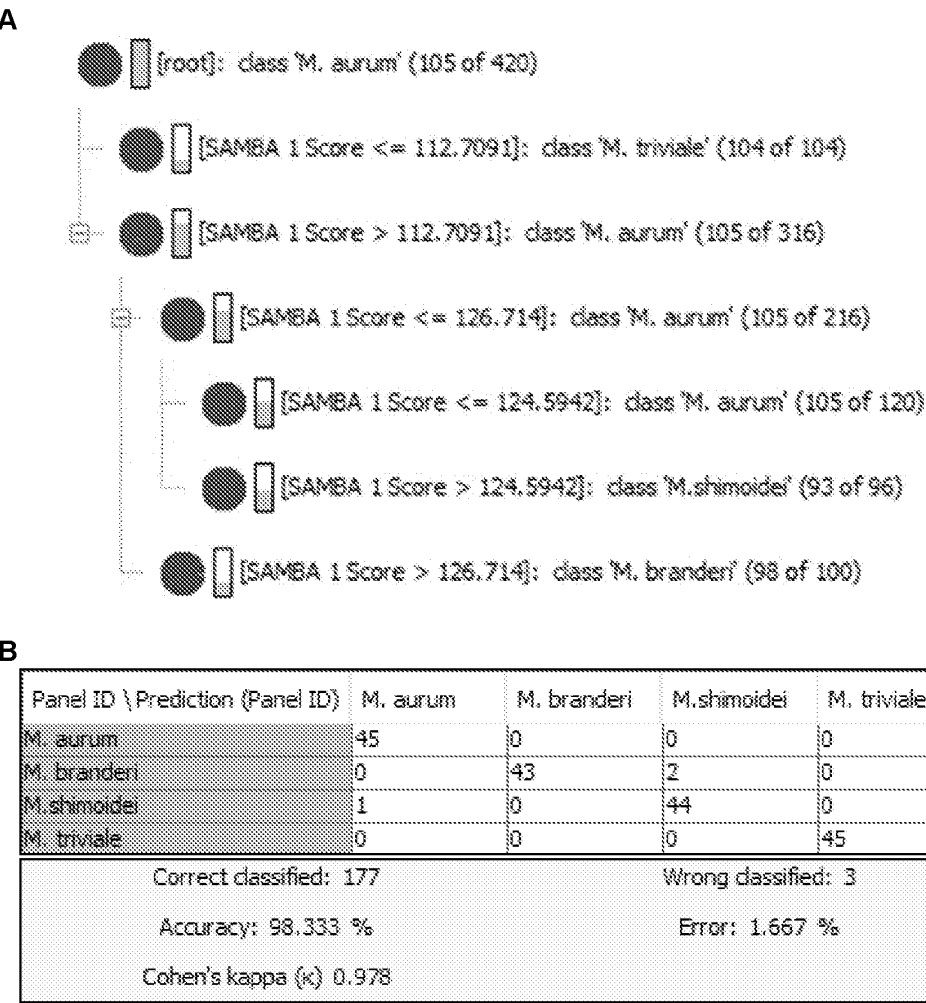


Fig. 8

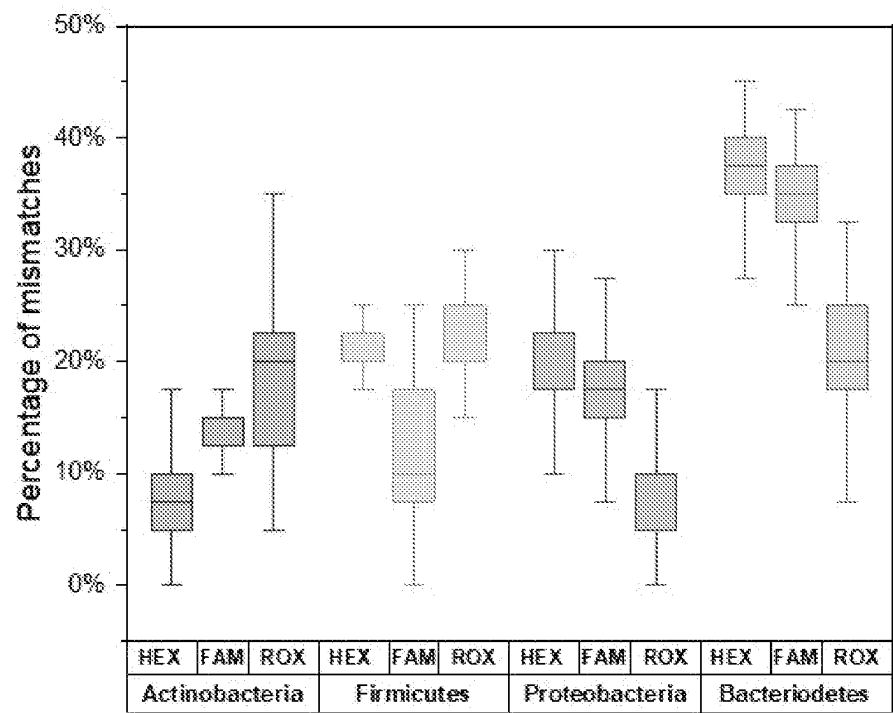


Fig. 9

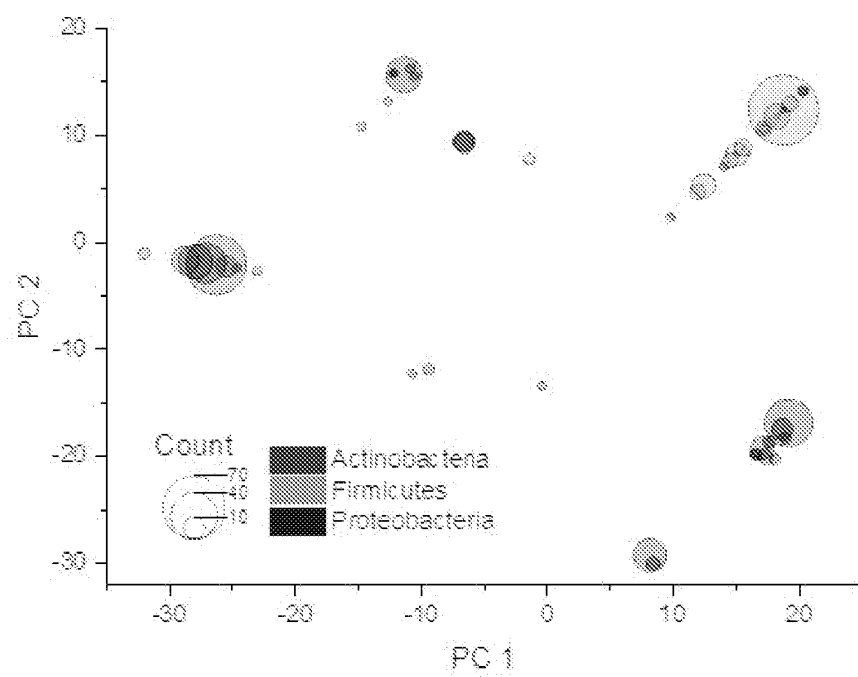
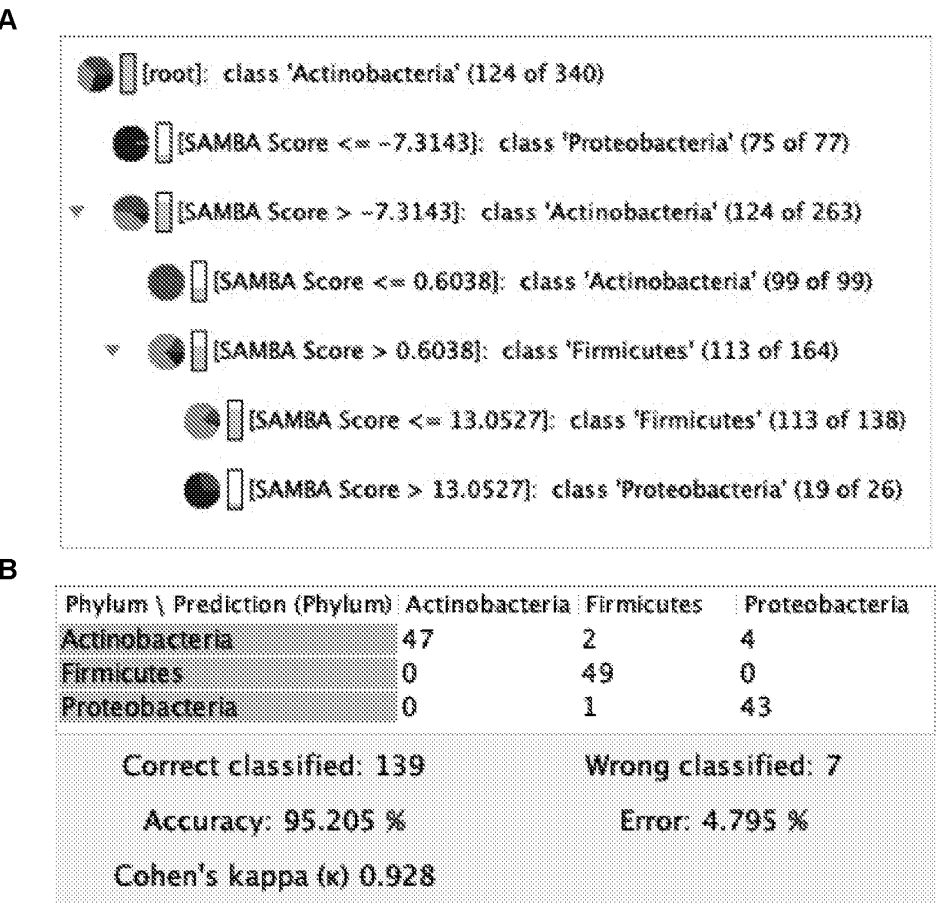


Fig. 10



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Fig. 11