Subgroup 1 : ['(ENAC5)', '(NCP)', '(DAC7)', '(ENAC10)', '(CKSNAP9)']

Models ->	XGBoost	AdaBoost	Ran. Forest	Log.Regression	SVC
Accuracy (Test)	0.807241379	0.7644827586	0.7306896552	0.7693103448	0.775517241
Accuracy (Train)	0.916982759	0.8162931034	1.0	0.81198275862 1	0.9122413793
Sensitivity (Test)	0.793254599	0.7623470484	0.7488458722	0.76886254610	0.762885835
Sensitivity (Train)	0.912737172	0.8149407789	1.0	0.81016308951	0.904277279
Specificity(Test)	0.821210048	0.7676864413	0.7163137898	0.76974237089	0.788254389
Specificity(Train)	0.921182256	0.8175062465	1.0	0.81379376319	0.920171641
MCC (Test)	0.614728416	0.5298018135	0.4661381885	0.53891184462 6	0.551169632
MCC (Train)	0.834004971	0.6326051141	1.0	0.62397898436	0.824589208

Subgroup 2 : ['(ENAC10)', '(DAC7)', '(CKSNAP9)', '(CKSNAP5)', '(kmer5)']

Models ->	XGBoost	AdaBoost	Ran. Forest	Log.Regression	SVC
Accuracy (Test)	0.683448276	0.6720689655	0.6593103448	0.74172413793	0.716551724
Accuracy (Train)	0.876896552	0.7444827586	1.0	0.78767241379	0.800517241
Sensitivity (Test)	0.702253353	0.6716482148	0.6683754304	0.74712838023	.7099845969
Sensitivity (Train)	0.896215717	0.7532911559	1.0	0.79407429365	0.797310511
Specificity(Test)	0.664240415	0.6724300374	0.6505102870	0.73749651011	0.722485684
Specificity(Train)	0.857582696	0.7356766009	1.0	0.78119293058 6	0.803328132
MCC (Test)	0.367229654	0.3441343388	0.3190218279	0.48461211498 4	0.432507417
MCC (Train)	0.754415651	.48904283371	1.0	0.57537043403	0.601045389

Subgroup 3 : ['(EIIP)', '(NCP)', '(CKSNAP1)', '(kmer1)', '(CKSNAP9)']

Models ->	XGBoost	AdaBoost	Ran. Forest	Log.Regression	SVC
Accuracy (Test)	0.796551724	0.7548275862	0.7424137931	0.76689655172	0.766896551
Accuracy (Train)	0.900172414	0.7975862069	1.0	0.81396551724	0.900948275
Sensitivity (Test)	0.787262368	0.7618881251	0.7694228829	0.7633730697	0.759999218
Sensitivity (Train)	0.892201675	0.7995689841	1.0	0.8109170647	0.891694642
Specificity(Test)	0.806246108	0.7471653684	0.7162860249	0.77268989903	.774281407
Specificity(Train)	0.908089742	0.7954432297	1.0	0.81685620652	0.910164230
MCC (Test)	0.593757103	.50910380700	0.4866174530	0.53533787139	0.534626593
MCC (Train)	0.800429649	0.5950805872	1.0	0.62786012661	0.802030509

Subgroup 4 : ['(CKSNAP1)', '(ENAC5)', '(CKSNAP9)', '(CKSNAP5)', '(ENAC5)']

Models ->	XGBoost	AdaBoost	Ran. Forest	Log.Regression	SVC
Accuracy (Test)	0.755517241	0.732068966	0.7120689655	0.76206896552	0.755517241
Accuracy (Train)	0.885258621	0.781034483	1.0	0.80310344828	0.879224137
Sensitivity (Test)	0.737825321	0.7271652405	0.7230220327	0.76155397190	0.751813394
Sensitivity (Train)	0.882731401	0.7751403182	1.0	0.79977163177	0.881177168
Specificity(Test)	0.773324632	0.7368238787	0.7030292516	0.76302822191	0.75868658
Specificity(Train)	0.887759217	0.7868809636	1.0	0.80632484864	0.877164808
MCC (Test)	0.511593309	0.4638651303	0.4260471169	0.52463096995	0.510693247
MCC (Train)	0.770527429	0.5620820146	1.0	0.60618741630	0.75842777

For Subgroup 5 : ['(kmer2)', '(kmer1)', '(CKSNAP9)', '(ENAC5)', '(TAC7)']

Models ->	XGBoost	AdaBoost	Ran. Forest	Log.Regression	SVC
Accuracy (Test)	0.755517241	0.7213793103	0.6979310345	0.75620689655	0.736206896
Accuracy (Train)	0.889655172	0.7796551724	1.0	0.795517241379	0.880862068
Sensitivity (Test)	0.746318529	0.7157777554	0.7139145886	0.75331004677	0.729100343
Sensitivity (Train)	0.885004253	0.7723454522	1.0	0.78920888859	0.877413229
Specificity(Test)	0.764965276	0.7270930663	0.6830995099	0.76033327487	0.744009111
Specificity(Train)	0.894313975	0.7868711625	1.0	0.80163707452	0.884292194
MCC (Test)	0.511348427	0.4429478100	0.3974342091	0.51354163034	0.47299254
MCC (Train)	0.779348731	0.5593478729	1.0	0.59100408340	0.761771729

Independent Test:

Models ->	XGBoost	AdaBoost	Ran. Forest	Log.Regression	SVC
Accuracy	0.802884615	0.7692307692	0.7548076923	0.759615384	0.754807692
Sensitivity	0.769230769	0.740384615	0.7403846153	0.7307692307	0.71153846
Specificity	0.836538461	0.798076923	0.7692307692	0.7884615384	0.79807692
MCC	0.607146076	0.53935988	0.5098275426	0.520097036	0.511534401