Peptide Composition	(Whole Peptide S	equence)											
ALternate Dataset													
	Accuracy	MCC	AUC	Sensitivity	Specificity		Alternate	Balanced1	Balanced2	Independent1	Independent2	Main	
ELM	0.880455408	0.291959646	0.5742516296	0.9890829694	0.1594202899	ELM	0.880455408	0.8993288591	0.9461444308	0.84375	0.9090909091	0.9461444308	
MLP	0.8690702087	0.291959646	0.5742516296	0.9890829694	0.1594202899	MLP	0.8690702087	0.8187919463	0.6979865772	0.375	0.7878787879	0.9424724602	
SVM	0.834323344	0.305541	0.5234499	0.98434355	0.234553	SVM	0.834323344	0.8590604027	0.8120805369	0.75	0.9090909091	0.9424724602	
ABC	0.8523423232	0.31345334	0.6104422	0.9752343434	0.184543322	ABC	0.8523423232	0.8657718121	0.8389261745	0.625	0.9090909091	0.9326805386	
RFC	0.8956356736	0.4387562143	0.6506866654	0.9825327511	0.3188405797	RFC	0.8956356736	0.9127516779	0.8523489933	0.75	0.8484848485	0.9571603427	
QDA	0.8690702087	0.4387562143	0.5	0.9825327511	0.3188405797	QDA	0.8690702087	0.8791946309	0.7919463087	0.71875	0.7575757576	0.9155446756	
Balanced 1													
	Accuracy	MCC	AUC	Sensitivity	Specificity								
ELM	0.8993288591	0.7987024819	0.8994232156	0.8947368421	0.904109589		Accur	acy with Ar	nino Acid C	omposition	as Feature		
MLP	0.8187919463	0.6382480173	0.8191240087	0.8026315789	0.8356164384			,					
SVM	0.8590604027	0.7183616632	0.8585976929	0.8815789474	0.8356164384			1		_	•	Alternate	
ABC	0.8657718121	0.7315536081	0.8654470079	0.8815789474	0.8493150685				. 1			Balanced1	
RFC	0.9127516779	0.8255541673	0.912851478	0.9078947368	0.9178082192		0.7	75				Balanced2	
QDA	0.8791946309	0.7582912761	0.8791456381	0.8815789474	0.8767123288		0.7					Independent1	
	2.2.2.2.3000											Independent2	
							Tacy o	.5					
Balanced 2							Accuracy					Main	
Jana. 1000 E	Accuracy	MCC	AUC	Sensitivity	Specificity		⋖						
ELM .	0.9461444308	0.5955183983	0.7337828412		0.4782608696		0.2	25 —					
MLP	0.6979865772	0.4161040171	0.6944844989	0.8684210526	0.5205479452								
SVM	0.8120805369	0.6310861702		0.8947368421	0.7260273973								
ABC	0.8389261745	0.6794140293	0.8380497477	0.8815789474	0.7945205479			0					
RFC	0.8523489933	0.7052787296	0.8517483778	0.8815789474	0.8219178082			ELM	MLP SVM	ABC RF	C QDA		
QDA	0.7919463087	0.5943101137	0.7898341745	0.8947368421	0.6849315068				Machine Le	arning Models			
QDA	0.7919403067	0.5945101137	0.7696341743	0.0947300421	0.0049313000								
Independent 1													
	Accuracy			Sensitivity	Specificity								
ELM	0.84375	0.6952687918		0.8									
MLP	0.375	0	0.5	0	1								
SVM	0.75	0.5530100413		0.65									
ABC	0.625	0.3829708431	0.6833333333	0.45									
RFC	0.75	0.5530100413	0.7833333333	0.65	0.9166666667								
QDA	0.71875	0.50929286	0.7583333333	0.6	0.9166666667								
Independent 2													
	Accuracy	MCC	AUC	Sensitivity	Specificity								
ELM	0.9090909091	0.8086924734	0.8980769231	0.95	0.8461538462								
MLP	0.7878787879	0.5627742568	0.7846153846	0.8	0.7692307692								
SVM	0.9090909091	0.8137411551	0.9115384615	0.9	0.9230769231								
ABC	0.9090909091	0.8137411551	0.9115384615	0.9	0.9230769231								
RFC	0.8484848485	0.6882577059	0.8480769231	0.85	0.8461538462								
QDA	0.7575757576	0.4823819106	0.7326923077	0.85	0.6153846154								

	Accuracy	MCC	AUC	Sensitivity	Specificity					
ELM	0.9461444308	0.5955183983	0.7337828412	0.9893048128	0.4782608696					
MLP	0.9424724602	0.5835527461	0.7515112764	0.9812834225	0.5217391304					
SVM	0.9424724602	0.5567600696	0.7054657832	0.9906417112	0.4202898551					
ABC	0.9326805386	0.5273269791	0.7395857553	0.9719251337	0.5072463768					
RFC	0.9571603427	0.6853885457	0.7595326668	0.9973262032	0.5217391304					
QDA	0.9155446756	0	0.5	1	0					