Figure 1: Comparison of performance between different SVM kernels for the identification of NN269 acceptor splice site. MM1 remains as the core pre-processing method while SVM with polynomial, linear and RBF kernel are used. All the kernels perform almost equally well.



Figure 2: Comparison of performance between different SVM kernels for the identification of NN269 donor splice site. MM1 remains as the core pre-processing method while SVM with polynomial, linear and RBF kernel are used. All the kernels perform almost equally well.



Table 1: NN269 Acceptor: the sensitivity and specificity values of MM1-SVM method and other methods. Sensitivity (TP/TP+FN), is the percentage of correct prediction of true sites and Specificity (TN/TN+FP) is the percentage of correct prediction of false sites.

	MM1-SVM	Loi-	GeneSplicer	NNSplice
SN	1-SP	Rajapakse 1-SP	1-SP	1-SP
65	0.21	0.9	0.7	1.1
70	0.28	1.1	0.9	1.3
75	0.41	1.2	1.7	1.6
80	0.55	1.5	2.6	2.3
85	0.75	2.8	3.4	3.6
90	1.1	4	5.5	4.8
95	2.0	5.9	7.9	10.4

Table 2: NN269 Donor: the sensitivity and specificity values of MM1-SVM method and other methods. Sensitivity (TP/TP+FN), is the percentage of correct prediction of true sites and Specificity (TN/TN+FP) is the percentage of correct prediction of false sites.

	MM1-SVM	Loi-	GeneSplicer	NNSplice
		Rajapakse		
SN	1-SP	1-SP	1-SP	1-SP
65	0.20	0.7	0.9	1.4
70	0.30	0.9	1.1	1.7
75	0.33	1	1.4	2.1
80	0.35	1.4	2.2	2.7
85	0.40	2.3	2.7	3.2
90	0.60	3	3.3	4.6
95	0.90	4.3	4.8	7.1

Dataset	Splice site	Training time (s)
NN269	Acceptor	327
	Donor	109
DGSplicer	Acceptor	28891
	Donor	11921

Table 3: Training time in seconds required for the SVM for NN269 and DGSplicer acceptor and donor splice site dataset.