
SUPPLEMENTARY MATERIAL

Splice2Deep: An Ensemble of Deep Convolutional Neural Networks for Improved Splice Site Prediction in Genomic DNA

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Supplementary Table S1. Sensitivity (Sn) and Specificity (Sp) comparison of Splice2Deep and the state-of-the-art tools for the prediction of SS on the five selected organisms. N/A indicates that the tool is not available for that specific organism.

Splice site	Model	<i>Homo sapiens</i>		<i>Arabidopsis thaliana</i>		<i>Oryza sativa japonica</i>		<i>Drosophila melanogaster</i>		<i>Caenorhabditis elegans</i>	
		Sp.	Sn.	Sp.	Sn.	Sp.	Sn.	Sp.	Sn.	Sp.	Sn.
AcSS	Genesplicer	97.3	69.28	97.67	77.85	97.5	70.92	93.4	83.93	N/A	N/A
	SplicePredictor	91.86	84.16	96.83	87.44	98.2	80.65	94.92	82.47	N/A	N/A
	DeepSS	92.93	90.18	N/A	N/A	N/A	N/A	N/A	N/A	90.49	90.86
	Splicerover	97.39	90.77	93.12	94.02	N/A	N/A	N/A	N/A	N/A	N/A
	Splice2Deep	97.8	95.61	94.86	95.53	93.62	94.16	95.04	94.09	97.78	98.38
DoSS	Genesplicer	98.6	60.36	97.58	84.12	97.71	74.62	93.7	86.66	N/A	N/A
	SplicePredictor	97.24	79.15	96.04	88.94	97.86	77.14	96.12	81.46	N/A	N/A
	DeepSS	93.63	91.18	N/A	N/A	N/A	N/A	N/A	N/A	91.94	91.68
	Splicerover	96.44	90.01	94.12	95.02	N/A	N/A	N/A	N/A	N/A	N/A
	Splice2Deep	98.83	95.93	95.67	95.5	94.41	94.25	93.71	90.46	97.74	97.63