

Table S15: Performance of DL-models on validation dataset developed using four types of Binary profile-based features of N, C, NC-terminal of gram-positive ABPs

Feature type	Terminal	ANN			CNN			RNN			LSTM		
		AUC	AUPRC	MCC	AUC	AUPRC	MCC	AUC	AUPRC	MCC	AUC	AUPRC	MCC
AAB	N	0.88	0.88	0.60	0.88	0.88	0.58	0.87	0.88	0.63	0.85	0.86	0.55
	C	0.83	0.84	0.48	0.81	0.81	0.46	0.83	0.83	0.50	0.80	0.79	0.47
	NC	0.89	0.89	0.62	0.89	0.90	0.61	0.88	0.89	0.64	0.85	0.86	0.55
DPB	N	0.87	0.89	0.55	0.89	0.89	0.64	0.87	0.88	0.62	0.88	0.87	0.60
	C	0.84	0.84	0.51	0.84	0.84	0.51	0.83	0.82	0.49	0.83	0.84	0.47
	NC	0.90	0.90	0.64	0.88	0.89	0.62	0.90	0.89	0.65	0.87	0.88	0.59
AIB	N	0.88	0.86	0.61	0.88	0.87	0.63	0.88	0.88	0.61	0.88	0.89	0.61
	C	0.82	0.81	0.49	0.82	0.80	0.48	0.84	0.83	0.55	0.80	0.80	0.46
	NC	0.90	0.88	0.68	0.89	0.88	0.66	0.90	0.89	0.64	0.89	0.89	0.62
PCB	N	0.89	0.90	0.65	0.90	0.89	0.65	0.89	0.90	0.65	0.87	0.87	0.60
	C	0.84	0.83	0.54	0.81	0.80	0.47	0.81	0.79	0.44	0.81	0.80	0.48
	NC	0.90	0.89	0.67	0.88	0.86	0.64	0.89	0.89	0.64	0.87	0.87	0.57

MCC: Matthews Correlation Coefficient, **AUC**: Area Under the Receiver Operating Characteristic curve, **AUPRC**: Area Under the Precision-Recall Curve, **AAB**: Amino acid-based binary profile, **DPB**: Dipeptide-based binary profile, **PCB**: Physico-chemical properties based binary profile, **AIB**: Amino-acid indices based binary profile, **ANN**: Artificial neural network, **CNN**: Convolution neural network, **RNN**: Recurrent neural network, **LSTM**: Long short-term memory