

Table S7: The ANN models using 5 hidden neurons for 10-mer, 20-mer and 30-mer lysine peptides

	Spe	Sen	Tot	AUR
10-mer				
rose	66.66667	71.71717	67.37288	0.748428
janin+engelman	66.50246	73.73737	67.51412	0.747516
cornette+rose	73.89163	60.60606	72.0339	0.725498
eisenberg+engelman	67.15928	70.70707	67.65537	0.722073
hopp+cornette	73.23481	63.63636	71.89266	0.721119
kyte+hopp	67.32348	68.68687	67.51412	0.719245
cornette	66.83087	67.67677	66.94915	0.718789
kyte+cornette	72.08539	59.59596	70.33898	0.716782
kyte+engelman	66.66667	67.67677	66.80791	0.71023
cornette+janin	71.10016	63.63636	70.0565	0.706333
cornette+eisenberg	66.50246	60.60606	65.67797	0.700428
hopp+janin	66.17406	65.65657	66.10169	0.694291
janin	69.62233	58.58586	68.0791	0.688279
kyte+eisenberg	66.50246	65.65657	66.38418	0.687341
engelman	66.66667	67.67677	66.80791	0.684762
kyte+janin	72.41379	61.61616	70.90395	0.683634
cornette+engelman	70.60755	57.57576	68.78531	0.68283
eisenberg+janin	66.17406	62.62626	65.67797	0.680607
kyte	66.66667	67.67677	66.80791	0.677522
hopp+rose	73.89163	57.57576	71.61017	0.671004
hopp+engelman	71.75698	57.57576	69.77401	0.671004
hopp+eisenberg	71.92118	57.57576	69.91525	0.666965
rose+engelman	68.47291	60.60606	67.37288	0.664527
eisenberg	66.83087	54.54545	65.11299	0.663374
hopp	66.66667	64.64646	66.38418	0.658481
eisenberg+rose	72.41379	57.57576	70.33898	0.656466
kyte+rose	75.20525	51.51515	71.89266	0.631479
rose+janin	71.75698	45.45455	68.0791	0.622415
20-mer				
janin+engelman	82.42613	55.04587	78.45745	0.755568
eisenberg+janin	81.80404	58.7156	78.45745	0.749954
hopp+engelman	52.09953	85.3211	56.91489	0.748755
cornette	67.18507	70.6422	67.68617	0.731462
janin	65.31882	66.97248	65.55851	0.711637
hopp	72.6283	60.55046	70.87766	0.711266
kyte+hopp	80.09331	49.54128	75.66489	0.709425
kyte	73.56143	63.30275	72.07447	0.708848
hopp+rose	80.7154	52.29358	76.59574	0.70832
cornette+engelman	82.27061	49.54128	77.5266	0.70665
kyte+janin	79.78227	53.21101	75.93085	0.703411
kyte+engelman	80.24883	47.70642	75.53191	0.701942
kyte+cornette	78.84914	52.29358	75	0.697212
rose+engelman	54.27683	76.14679	57.44681	0.695814
rose+janin	76.51633	49.54128	72.60638	0.693438

hopp+janin	82.27061	40.36697	76.19681	0.691726
hopp+eisenberg	50.54432	76.14679	54.25532	0.691569
cornette+eisenberg	70.91757	54.12844	68.48404	0.685127
kyte+eisenberg	76.67185	51.37615	73.00532	0.68201
hopp+cornette	77.60498	44.0367	72.73936	0.680112
eisenberg	66.71851	58.7156	65.55851	0.67352
engelman	71.07309	54.12844	68.61702	0.670574
kyte+rose	76.98289	50.45872	73.1383	0.663789
cornette+rose	75.27216	53.21101	72.07447	0.663625
eisenberg+rose	74.8056	52.29358	71.54255	0.662726
rose	67.34059	57.79817	65.95745	0.662377
cornette+janin	78.07154	44.0367	73.1383	0.657747
eisenberg+engelman	74.65008	48.62385	70.87766	0.647895
30-mer				
kyte+janin	81.72043	58.55856	78.34646	0.77245
hopp+engelman	82.02765	56.75676	78.34646	0.770589
kyte+engelman	82.94931	54.05405	78.74016	0.757449
cornette+engelman	80.18433	56.75676	76.77165	0.756189
eisenberg+engelman	79.41628	60.36036	76.64042	0.739853
kyte+hopp	81.41321	54.95495	77.55906	0.733535
hopp+eisenberg	78.03379	54.95495	74.67192	0.733314
kyte+cornette	82.7957	52.25225	78.34646	0.732456
janin+engelman	76.80492	57.65766	74.01575	0.729405
eisenberg	78.03379	53.15315	74.40945	0.723226
engelman	77.26575	58.55856	74.54068	0.721177
eisenberg+janin	80.79877	54.95495	77.03412	0.71841
rose+janin	81.72043	53.15315	77.55906	0.708951
hopp+janin	80.18433	53.15315	76.24672	0.704225
rose+engelman	74.19355	56.75676	71.65354	0.701021
cornette+janin	80.03072	45.94595	75.06562	0.694877
hopp+rose	80.33794	49.54955	75.85302	0.686518
janin	75.57604	53.15315	72.30971	0.68611
hopp+cornette	79.10906	48.64865	74.67192	0.685141
cornette+rose	77.72657	54.05405	74.27822	0.682727
eisenberg+rose	78.80184	45.04505	73.88451	0.6789
kyte+eisenberg	80.03072	44.14414	74.80315	0.672347
kyte	74.50077	46.84685	70.47244	0.671849
cornette+eisenberg	80.33794	45.04505	75.19685	0.665926
hopp	79.10906	47.74775	74.54068	0.661533
cornette	72.96467	48.64865	69.42257	0.660294
kyte+rose	78.64823	45.04505	73.75328	0.658668
rose	57.60369	68.46847	59.18635	0.636602