

Table S8: The ANN models using 10 hidden neurons for various lysine peptides

	Spe	Sen	Tot	AUR
	10-mer			
rose	66.66667	71.71717	67.37288	0.748428
rose+janin	57.30706	78.78788	60.31073	0.726833
cornette+janin	76.51888	44.44444	72.0339	0.693089
eisenberg	66.17406	63.63636	65.81921	0.684646
kyte+janin	74.22003	54.54545	71.46893	0.677862
cornette+rose	57.47126	71.71717	59.46328	0.675076
engelmann	67.48768	63.63636	66.94915	0.672231
kyte+engelmann	76.19048	45.45455	71.89266	0.671825
cornette+eisenberg	69.95074	54.54545	67.79661	0.670996
eisenberg+rose	79.14614	43.43434	74.15254	0.670739
hopp+eisenberg	78.98194	39.39394	73.44633	0.670266
cornette	67.65189	58.58586	66.38418	0.670158
rose	69.62233	57.57576	67.93785	0.663275
cornette+engelmann	69.12972	50.50505	66.52542	0.661832
rose+engelmann	79.14614	47.47475	74.71751	0.660389
janin+engelmann	77.83251	48.48485	73.72881	0.659261
eisenberg+janin	77.83251	46.46465	73.44633	0.658888
eisenberg+engelmann	77.01149	44.44444	72.45763	0.658058
kyte+eisenberg	74.22003	45.45455	70.19774	0.649774
hopp+engelmann	71.26437	55.55556	69.0678	0.647128
kyte+cornette	72.9064	47.47475	69.35028	0.642758
janin	73.23481	51.51515	70.19774	0.635825
kyte+rose	72.7422	48.48485	69.35028	0.634597
hopp+rose	74.05583	38.38384	69.0678	0.618169
hopp	66.17406	48.48485	63.70056	0.611352
hopp+janin	76.68309	37.37374	71.18644	0.610506
kyte+hopp	71.59278	43.43434	67.65537	0.589367
hopp+cornette	66.00985	40.40404	62.42938	0.541573
	20-mer			
eisenberg+janin	79.62675	62.38532	77.12766	0.772411
hopp+janin	77.7605	65.13761	75.93085	0.770193
hopp+engelmann	76.04977	58.7156	73.53723	0.757073
cornette+eisenberg	75.27216	62.38532	73.40426	0.740943
rose+janin	79.47123	55.9633	76.06383	0.739652
kyte+engelmann	78.22706	56.88073	75.13298	0.739067
janin+engelmann	77.29393	54.12844	73.93617	0.728816
hopp+eisenberg	77.44946	55.9633	74.33511	0.727317
cornette+janin	76.98289	56.88073	74.06915	0.726055
kyte+janin	75.42768	58.7156	73.00532	0.717951
eisenberg+rose	77.7605	56.88073	74.73404	0.708962
cornette+engelmann	76.36081	44.95413	71.80851	0.702976
rose+engelmann	76.98289	54.12844	73.67021	0.699117
eisenberg	76.04977	53.21101	72.73936	0.697875
rose	72.31726	55.04587	69.81383	0.688737
cornette+rose	72.78383	54.12844	70.07979	0.68848
engelmann	79.62675	46.78899	74.86702	0.68614
kyte+hopp	70.60653	58.7156	68.88298	0.680469

hopp+cornette	73.25039	53.21101	70.34574	0.679627
kyte+eisenberg	73.71695	53.21101	70.74468	0.679013
kyte	70.91757	55.9633	68.75	0.676438
eisenberg+engelman	74.33904	50.45872	70.87766	0.676288
kyte+rose	69.82893	57.79817	68.08511	0.662198
kyte+cornette	69.36236	55.9633	67.42021	0.655214
cornette	72.47278	50.45872	69.28191	0.65199
hopp+rose	72.47278	55.04587	69.94681	0.647495
hopp	72.31726	45.87156	68.48404	0.64014
janin	78.38258	38.53211	72.60638	0.635824
30-mer				
eisenberg+engelman	73.27189	64.86486	72.04724	0.78424
hopp+eisenberg	76.95853	60.36036	74.54068	0.783106
janin+engelman	77.41935	61.26126	75.06562	0.775453
eisenberg+janin	77.72657	62.16216	75.45932	0.773522
kyte+janin	76.80492	61.26126	74.54068	0.769578
hopp+janin	77.11214	62.16216	74.93438	0.762652
cornette+engelman	74.34716	63.06306	72.70341	0.752508
kyte+engelman	77.72657	55.85586	74.54068	0.73968
rose+janin	75.11521	58.55856	72.70341	0.736483
cornette+janin	76.80492	59.45946	74.27822	0.73604
hopp+engelman	76.4977	58.55856	73.88451	0.735404
kyte+eisenberg	74.19355	60.36036	72.17848	0.734338
hopp+cornette	71.8894	65.76577	70.99738	0.732207
rose+engelman	74.9616	55.85586	72.17848	0.729654
cornette+eisenberg	73.57911	61.26126	71.78478	0.726581
engelman	75.11521	53.15315	71.91601	0.714535
eisenberg+rose	77.57296	58.55856	74.80315	0.708065
kyte+cornette	72.96467	61.26126	71.25984	0.701623
janin	77.41935	50.45045	73.49081	0.699236
eisenberg	74.65438	51.35135	71.25984	0.693472
rose	73.11828	53.15315	70.20997	0.692836
kyte+hopp	68.35637	54.95495	66.4042	0.674368
hopp	70.66052	57.65766	68.7664	0.670957
hopp+rose	72.65745	52.25225	69.68504	0.651015
cornette+rose	72.19662	46.84685	68.50394	0.630478
kyte	68.66359	46.84685	65.48556	0.623089
cornette	67.28111	46.84685	64.30446	0.609084
kyte+rose	72.81106	42.34234	68.3727	0.60817