Test set (373 samples)
Pearson Correlation

	All variab	3 variables	2 var (T and rain)	2 var (age and T)	2 var (age and rain)
Default (mean training)	58.52	58.52	58.52	58.52	58.52
Linear Regression	66.29	66.41	58.81	66.22	66.28
MLP (Dense)	72.19	69.27	63.23	68.14	71.55
OTU latent space	**73.40**	**73.48**	60.87	**73.23**	**73.61**
Combined latent space	72.29	72.20	**66.76**	71.89	70.48

Bray-Curtis

	All variab	3 variables	2 var (T and rain)	2 var (age and T)	2 var (age and rain)
Default (mean training)	51.40	51.40	51.40	51.40	51.40
Linear Regression	46.59	46.38	50.89	46.64	47.28
MLP (Dense)	41.69	45.27	50.47	45.91	42.11
OTU latent space	42.22	41.81	46.86	42.04	42.00
Combined latent space	**40.65**	**40.72**	**45.57**	**40.94**	**41.39**

Not to show in paper table1

1 var (age)	1 var (rain)	1 var (T)	1 var (inbreds)	1 var (line)
58.52	58.52	58.52	58.52	58.52
66.05	51.98	58.45	**60.26**	**59.91**
70.77	64.97	59.06	58.31	58.18
73.30	**66.73**	**60.64**	57.96	57.98
69.44	59.09	58.39	55.30	55.27

1 var (age)	1 var (rain)	1 var (T)	1 var (inbreds)	1 var (line)
51.40	51.40	51.40	51.40	51.40
47.70	55.99	51.21	52.67	52.13
72.85	46.73	53.07	51.55	51.55
41.92	**46.05**	50.58	51.47	51.49
41.89	48.60	**48.89**	**50.05**	**50.06**