

Test set – Aggregated – 3 variables

	no.OTUs	OTU latent space		Combined latent space		Linear Regression		MLP (Dense)		Default (mean training)	
		Pearson	Bray-Curtis	Pearson	Bray-Curtis	Pearson	Bray-Curtis	Pearson	Bray-Curtis	Pearson	Bray-Curtis
Phylum	16	0.9576	0.1591	0.9451	0.1833	0.9263	0.2040	0.9404	0.2010	0.9368	0.2269
Class	45	0.8777	0.2514	0.8646	0.2610	0.8278	0.2983	0.8198	0.3161	0.8010	0.3503
Order	83	0.8264	0.3007	0.7983	0.3057	0.7682	0.3596	0.7933	0.3407	0.6498	0.4088
Family	144	0.8229	0.3239	0.7965	0.3229	0.7663	0.3771	0.7758	0.3718	0.6432	0.4311
Genus	222	0.8133	0.3414	0.7901	0.3408	0.7562	0.3957	0.7748	0.3773	0.6339	0.4506
Species	717	0.7348	0.4181	0.7220	0.4072	0.6641	0.4638	0.6927	0.4527	0.5852	0.5140