

Table S1. Intrinsic disorder in viral genomes classified by the hosts they interact with.

Host	N ^a	S ^b (Kbp)		D ^c (%)		Correlation ^d		R ² _B	R ² _{BS}	p ^e
		μ	σ	μ	σ	ρ	p			
Plants	638	6.65	3.50	12.91	7.05	-0.73	2.20 x 10⁻¹⁶	0.27	0.61	<2 x 10⁻¹⁶
Vertebrates	590	22.85	42.11	13.65	8.76	-0.35	2.20 x 10⁻¹⁶	0.21	0.21	0.30
Vertebrates/Invertebrates	108	61.47	85.63	15.34	6.93	-0.77	2.20 x 10⁻¹⁶	0.53	0.74	2.09 x 10⁻¹⁵
Invertebrates	90	109.09	86.58	8.58	4.25	0.55	2.97 x 10⁻⁸	0.17	0.40	1.75 x 10⁻⁷
Bacteria	108	37.41	17.85	11.89	3.39	0.44	2.34 x 10⁻⁶	0.19	0.41	7.26 x 10⁻⁹
Bacteria, Archaea	346	65.88	49.05	12.36	3.95	0.19	3.22 x 10⁻⁴	0.59	0.60	0.04
Plants, Fungi	71	6.54	2.86	11.90	4.80	0.31	8.81 x 10 ⁻³	0.32	0.33	0.17
Fungi	19	6.23	4.40	6.33	5.59	0.57	0.01	0.65	0.66	0.32
Archaea	26	29.35	15.11	6.32	2.00	-0.37	0.06	-0.02	-0.05	0.57
Fungi, Protozoa	29	5.67	1.72	8.64	4.31	0.23	0.23	0.39	0.36	0.89
Vertebrates/Invertebrates,	39	23.52	5.87	6.23	1.49	0.16	0.34	0.10	0.09	0.44
Plants										
Bacteria, Mycoplasmas	26	7.29	1.08	10.43	4.19	-0.09	0.65	0.60	0.58	1.00
Vertebrates,	27	12.42	1.21	7.32	1.34	-0.08	0.69	-0.01	0.03	0.17
Invertebrates, Plants										
Vertebrates, Plants	25	13.98	2.70	2.90	1.22	0.06	0.77	-0.02	0.40	7.01 x 10⁻⁴
Bacteria, Spiroplasmas	15	5.12	0.65	13.51	4.76	0.05	0.87	0.75	0.87	6.90 x 10 ⁻³

^aNumber of genomes in the family.

^bGenome size; μ and σ represent the mean and standard deviation respectively.

^cPercent protein disorder as defined in Materials & Methods.

^dCorrelation between disorder and genome size; ρ and p represent coefficient of correlation and probability respectively.

^eProbability that genome size is a significant predictor of disorder, from an analysis of variance model including the composition of the four bases as covariates. Significant probabilities after Bonferroni correction are marked in bold.