

S4 Table

	NiSP (β only)		NiSP (β & γ)			Model selection		Binomial		Δ AIC	GoF p
	β	L	β	γ	L	χ^2	p	p	L		
Human papillomavirus	1.032	-6580.9	1.178	0.142	-6573.1	7.794	0.005	0.031	-6868.8	589.3	0.986
Pathogens of <i>I. ricinus</i> ticks	1.021	-314.1	1.161	0.137	-313.7	0.360	0.549	0.020	-329.3	30.5	0.476
Anther smut (<i>M. violaceum</i>)	1.009	-611.4	1.009	0.000	-611.4	0.000	1.000	0.009	-690.8	158.8	0.000
Barley yellow dwarf viruses	1.051	-1180.8	1.051	0.000	-1180.8	0.000	1.000	0.048	-1261.9	162.2	0.000
<i>Borrelia afzelii</i> on bank voles	1.044	-652.1	1.044	0.000	-652.1	0.000	1.000	0.040	-799.0	293.8	0.000
Malaria (<i>Plasmodium vivax</i>)	1.021	-3169.2	1.162	0.138	-3164.6	4.588	0.032	0.021	-3467.3	603.5	0.000
Respiratory viruses	1.037	-22619.0	4.7×10^9	4.6×10^9	-21731.9	887.057	0.000	0.036	-21731.9	-2.0	0.000