

Table S.2. Sampling variables and viral richness for the nine species-habitat at organ level.

The number of rodent individuals per sample, the number of viral genera/subfamily detected, the sequencing platform and organ types are given below.

P.guy.PF: *Proechimys guyannensis* from Pristine forest, **P.guy.DF:** *Proechimys guyannensis* from Disturbed forest, **P.cuv.PF:** *Proechimys cuvieri* from Pristine forest, **P.cuv.DF:** *Proechimys cuvieri* from Disturbed forest, **H.meg.PF:** *Hylaeamys megacephalus* from Pristine forest, **H.meg.DF:** *Hylaeamys megacephalus* from Disturbed forest, **Z.bre.SV:** *Zygodontomys brevicauda* from savannah, **Z.bre.DF:** *Zygodontomys brevicauda* from Disturbed forest, **Z.bre.PU:** *Zygodontomys brevicauda* from Peri-Urban areas.

Organ	# individual rodents	#viral genera	Sequencing Platform	Organ Type
k_Pguy_PF	5	8	HiSeq2500	kidney
r_Pguy_PF	8	4	HiSeq2500	spleen
s_Pguy_PF	12	13	HiSeq2500	serum
k_Pguy_DF	24	8	HiSeq2500	kidney
r_Pguy_DF	27	7	HiSeq2500	spleen
s_Pguy_DF	27	9	HiSeq2500	serum
k_Pcuv_PF	9	8	HiSeq2500	kidney
r_Pcuv_PF	24	3	HiSeq2500	spleen
s_Pcuv_PF	31	10	HiSeq2500	serum
k_Pcuv_DF	18	5	HiSeq2500	kidney
r_Pcuv_DF	18	11	HiSeq2500	spleen
s_Pcuv_DF	15	6	HiSeq2500	serum
k_Hmeg_PF	2	5	HiSeq2500	kidney
r_Hmeg_PF	4	7	HiSeq2500	spleen
s_Hmeg_PF	3	6	HiSeq2500	serum
k_Hmeg_DF	4	12	MiSeq	kidney
r_Hmeg_DF	4	10	MiSeq	spleen
s_Hmeg_DF	4	6	HiSeq2500	serum

k_Zbre_SV	6	9	MiSeq	kidney
r_Zbre_SV	6	6	MiSeq	spleen
s_Zbre_SV	8	4	HiSeq2500	serum
k_Zbre_DF	7	10	MiSeq	kidney
r_Zbre_DF	7	7	MiSeq	spleen
s_Zbre_DF	10	2	HiSeq2500	serum
k_Zbre_PU	20	5	HiSeq2500	kidney
r_Zbre_PU	20	6	HiSeq2500	spleen
s_Zbre_PU	19	8	HiSeq2500	serum