About me

Name: Geovani de Oliveira Ribeiro

City: Belem, Brazil

Education:

- *Doctoral student in Biotechnology*
- Federal University of Pará

Research interest:

- Molecular evolutionary
- Genomic of bacteria and viruses
- Bioinformatic applied to metagenomics/viromic
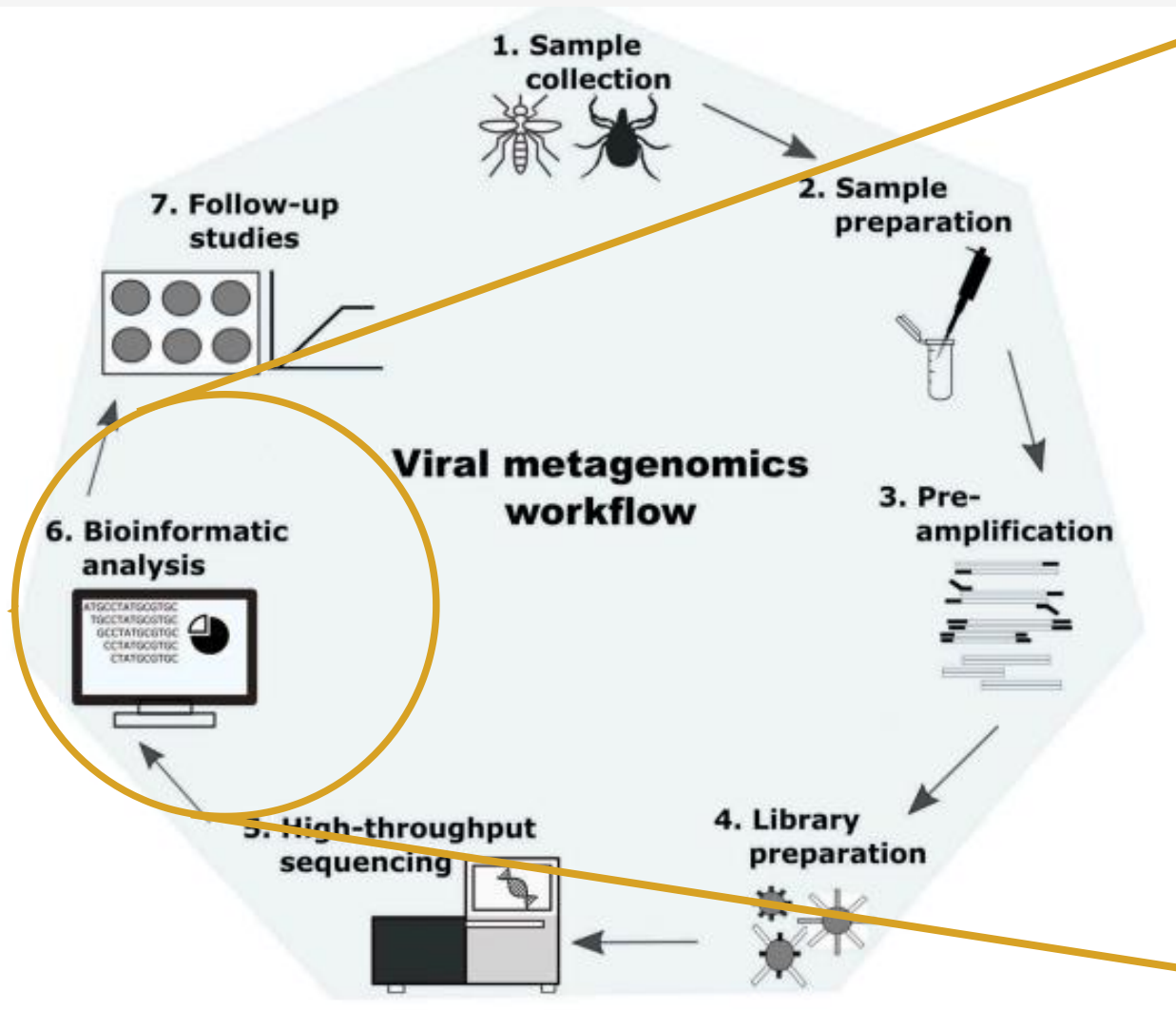
About My Work (Phd Thesis)

- Virome characterization of metagenomics samples (wild mosquitoes and human serum)

- Search for novel virus in metagenomics samples

- Genomic and evolutionary characterization of insect-virus and arbovirus (arthropod-borne virus)

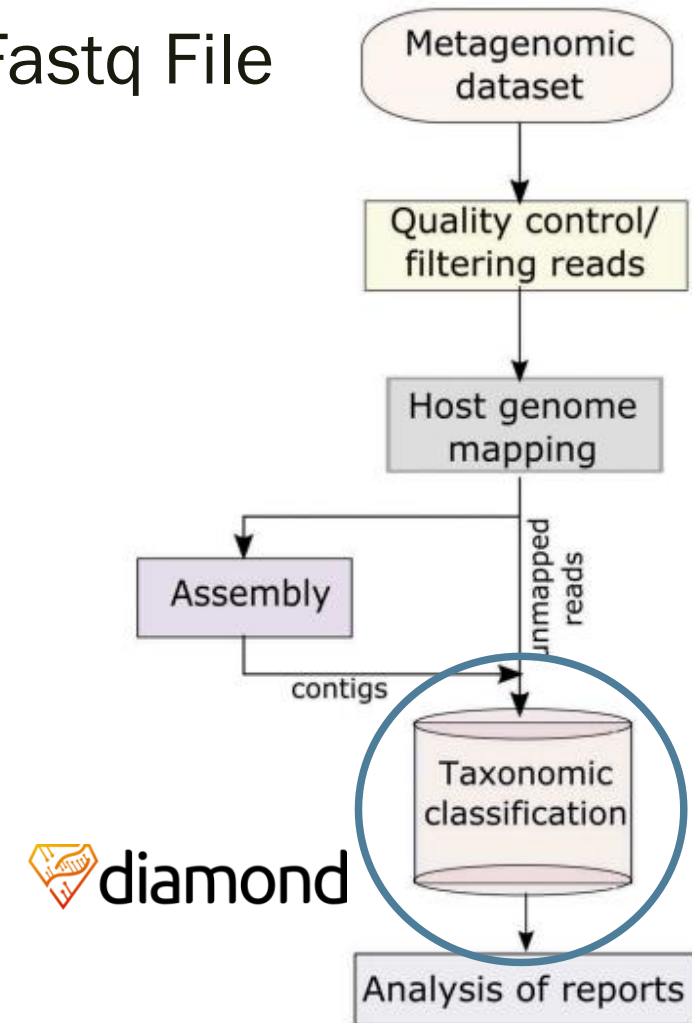- Ecological dynamics of Mosquito-Associated RNA Viruses
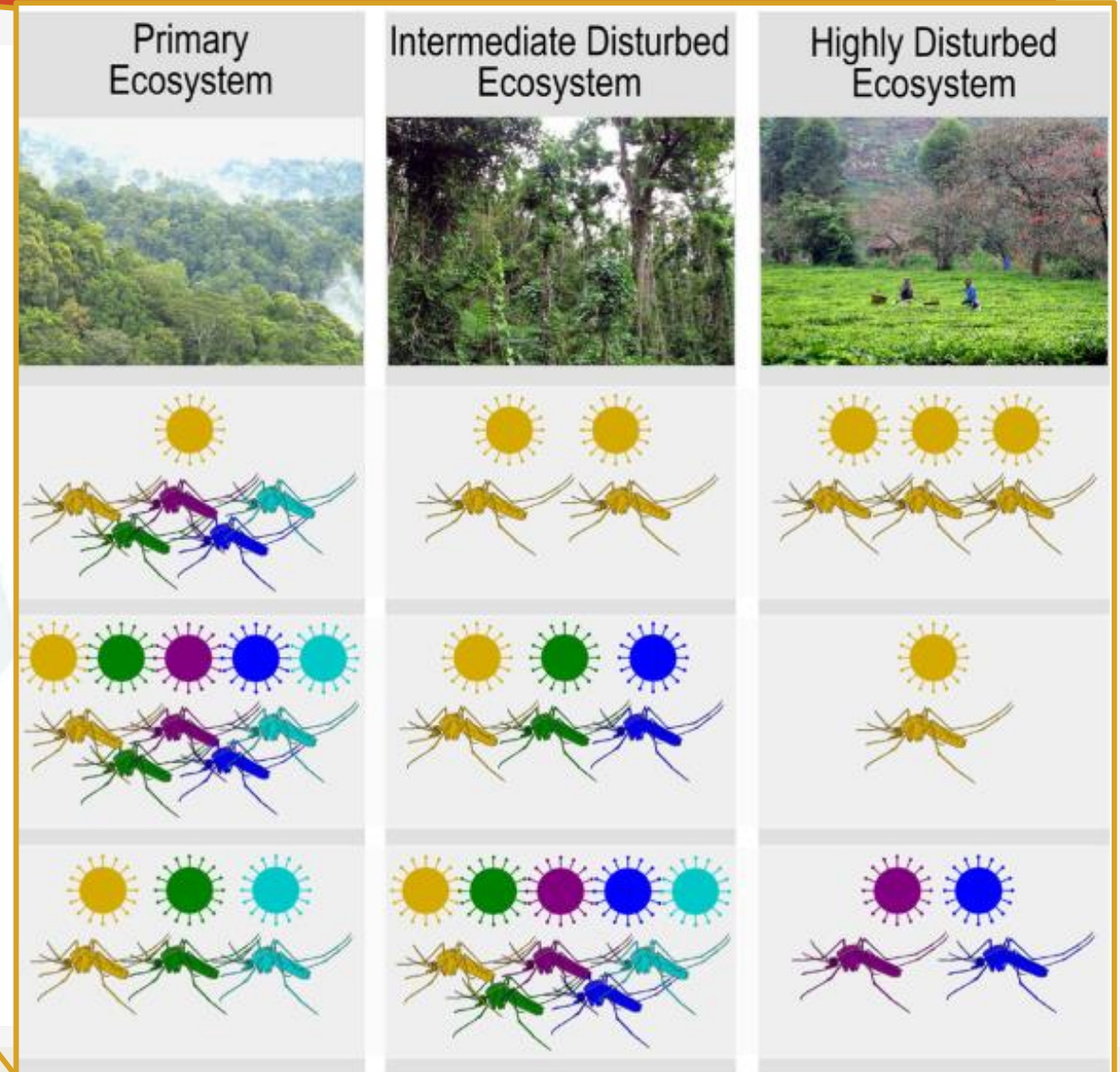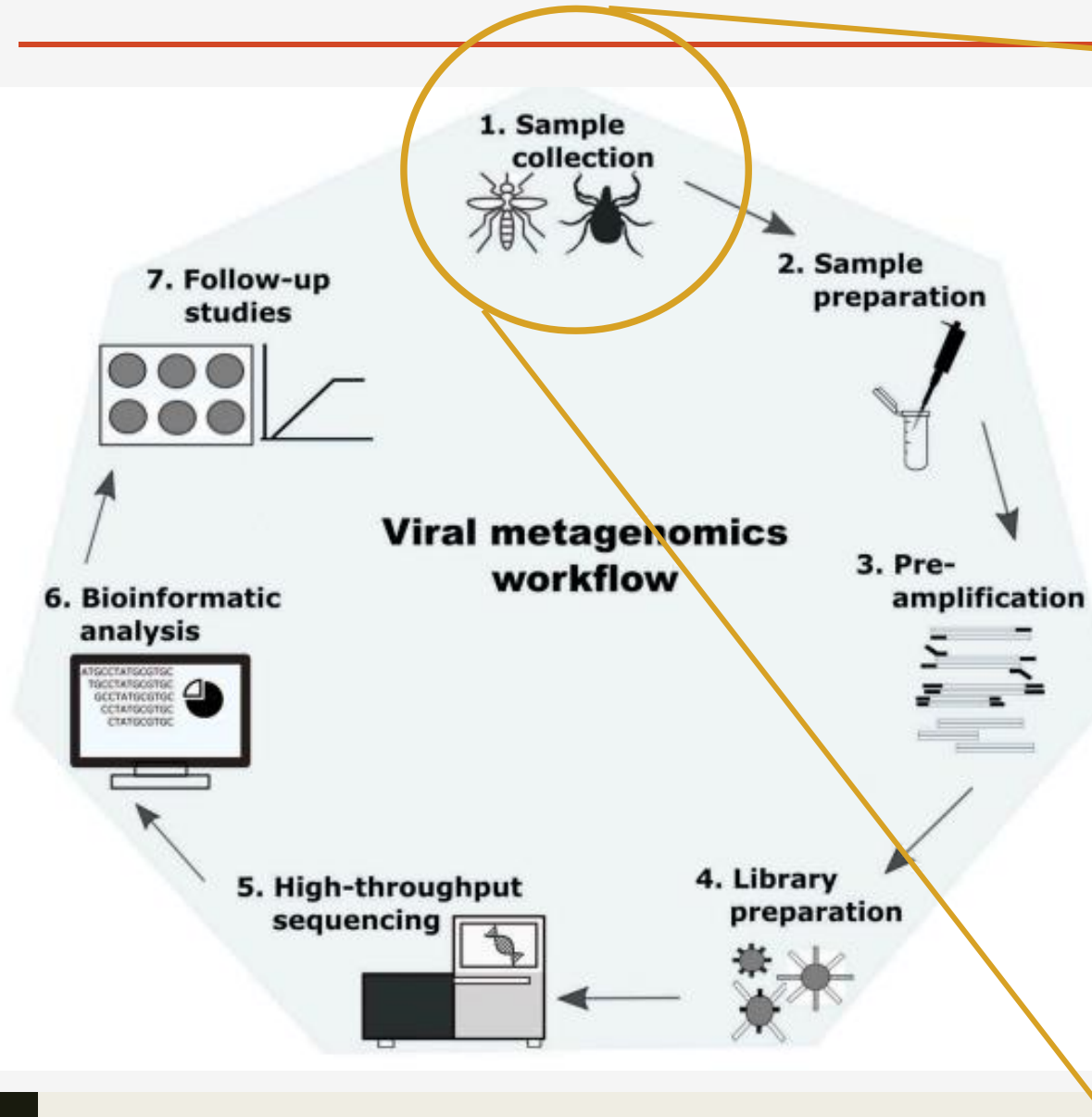
Background

Fastq File

Tipo de dado
Exemplo de output do Diamond

	0	1	2	3	4 5	6	7	8	9	...	14	15	16	17	18	19	20	21	22	23
0	@DRR049387.1	PKP60081.1	29.0	138	96 2	7	143	8	144	...	63.1	PKP60081.1 hypothetical protein CVT88_04030 [C...	2013673	Archaea	Euryarchaeota	UNKNOWN	Candidatus Altiarchaeales	UNKNOWN	UNKNOWN	Candidatus Altiarchaeales archaeon HGW-Altiarc...
1	@DRR049387.2	PJI86295.1	36.6	71	39 3	22	90	175	241	...	31.8	PJI86295.1 4-diphosphocytidyl-2-C-methyl-D-ery...	420999	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Yoonia	Yoonia maricola
2	@DRR049387.3	WP_100368596.1	36.6	71	39 3	22	90	165	231	...	31.8	WP_100368596.1 4-(cytidine 5'-diphospho)-2-C-m...	420999	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Yoonia	Yoonia maricola
3	@DRR049387.3	WP_106860599.1	30.7	274	188 1	1	274	1	272	...	99.6	WP_106860599.1 hypothetical protein [Candidatu...	2043165	Bacteria	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	Candidatus Sulfopaludibacter	Candidatus Sulfopaludibacter sp. SbA4
4	@DRR049387.342	SPE37964.1	36.3	190	120 1	86	275	1	189	...	69.1	SPE37964.1 hypothetical protein SBA6_80035 [Ca...	2043166	Bacteria	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	Candidatus Sulfopaludibacter	Candidatus Sulfopaludibacter sp. SbA6

5 rows × 24 columns

Adding Header To Pandas Dataframe

```
df.columns=["Query", "Subject", "Identity", "length",…]
```

Add Column To Dataframe Pandas

```
df['Host'] = "Culex"

df['Site'] = "BeiraMar"
```

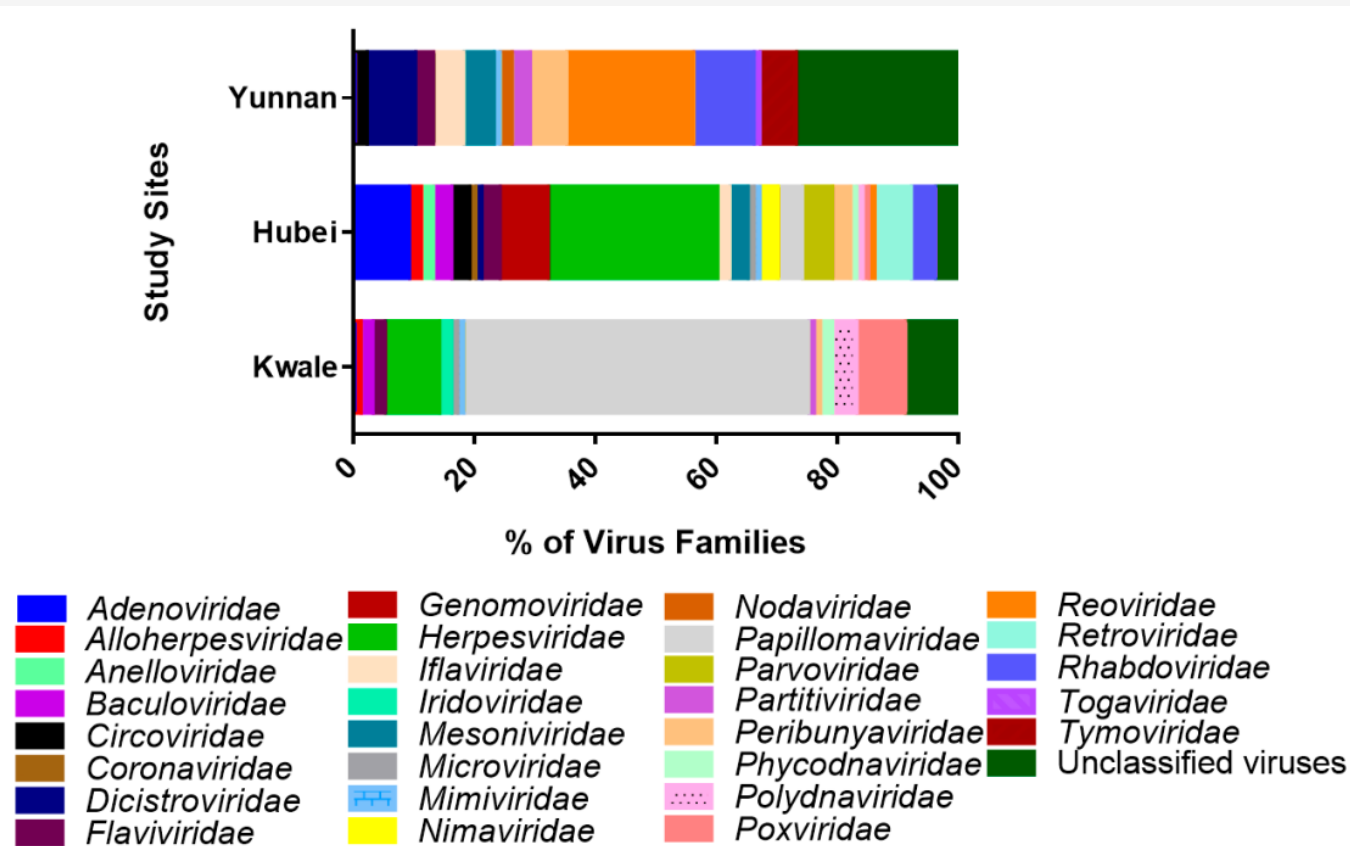## Análises: Diversidade taxonômica do viroma de mosquito em diferentes regiões (cidades)


Figure 3. Stacked bar graph of all virus families (color coded) identified in the viromes of the *Culex* mosquito in Kwale county, Kenya and provinces of Hubei and Yunnan, China, 2014–2017. Only virus families with reads more than 30 were included in the figure.

[1]Atony et al. 2018; Batovska et al. 2017

Análises: Diversidade taxonômica do viroma de mosquito em diferentes habitats
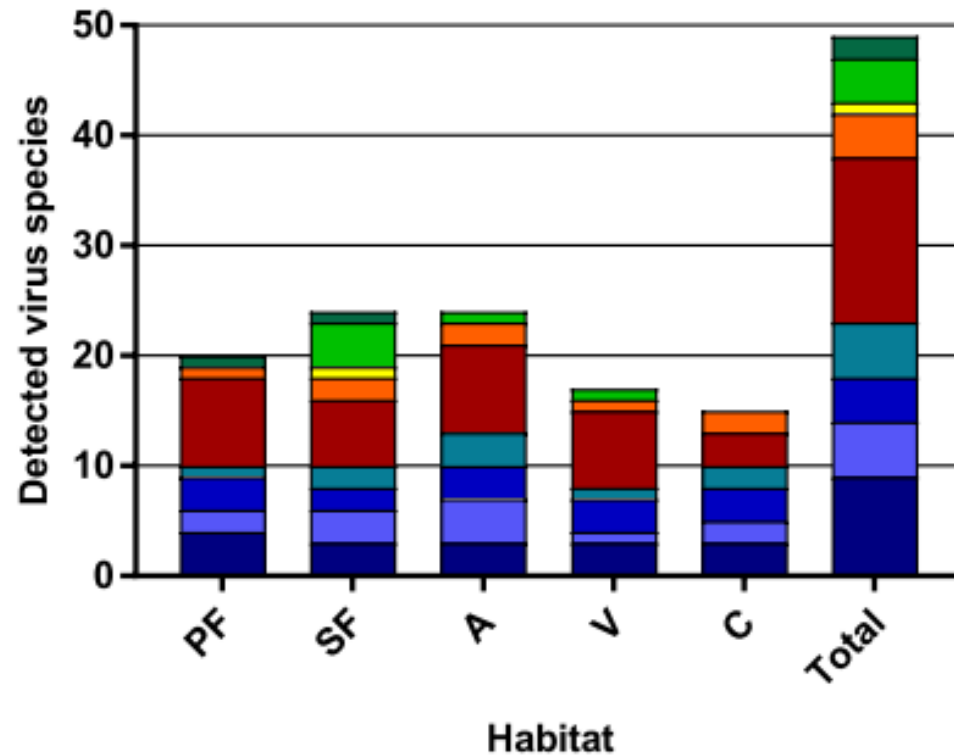
Análises: Diversidade taxonômica do viroma de mosquito em diferentes espécies

Alpha diversity of eukaryotic virus on species level