

Problem #03: Characterize a deep "RNA virus"

database (https://blast.ncbi.nlm.nih.gov/Blast.cgi).

In PALMdb (<a href="https://github.com/rcedgar/palmdb">https://github.com/rcedgar/palmdb</a>) there is a collection of RNA-virus RdRp palmprint molecular barcodes (file: `otu\_centroids.fa`). Choose one palmprint barcode sequence which has less than 50% amino acid BLAST identity against the GenBank nr

With any/all tools at your disposal (hint: try <a href="https://serratus.io/palmid">https://serratus.io/palmid</a>), assemble as close to a complete genome as possible for this given RNA virus and annotate the genome.

- What are the ecological reservoirs for this virus and those related to it?
- What are the hosts for this virus and those related to it?
- What can you infer about the biology of this virus from it's genome organization and phylogenetics?

RNAmerit id003 Status: **OPEN**