Lecture 3 in class work

Using the 'Lecture3Data.fasta' file, identify the sequences in the file. Rename them by species and gene, e.g., Genus_species_gene – for our ApoE example, Homo_sapiens_ApoE.

Work in a group of at least two individuals. One of you convert the nucleotides to amino acids. The other use the nucleotides. Now \dots

- 1. Align the sequences (either amino acids or nucleotides) to each other using MAFFT https://mafft.cbrc.jp/alignment/software/.
- 2. What does your alignment tell you about your sequences? Click on the 'phylogeny' or 'tree' view. Identify paralogs and orthologs.
- 3. Examine the parameter options for the alignment. What do these mean? We'll discuss coming up!