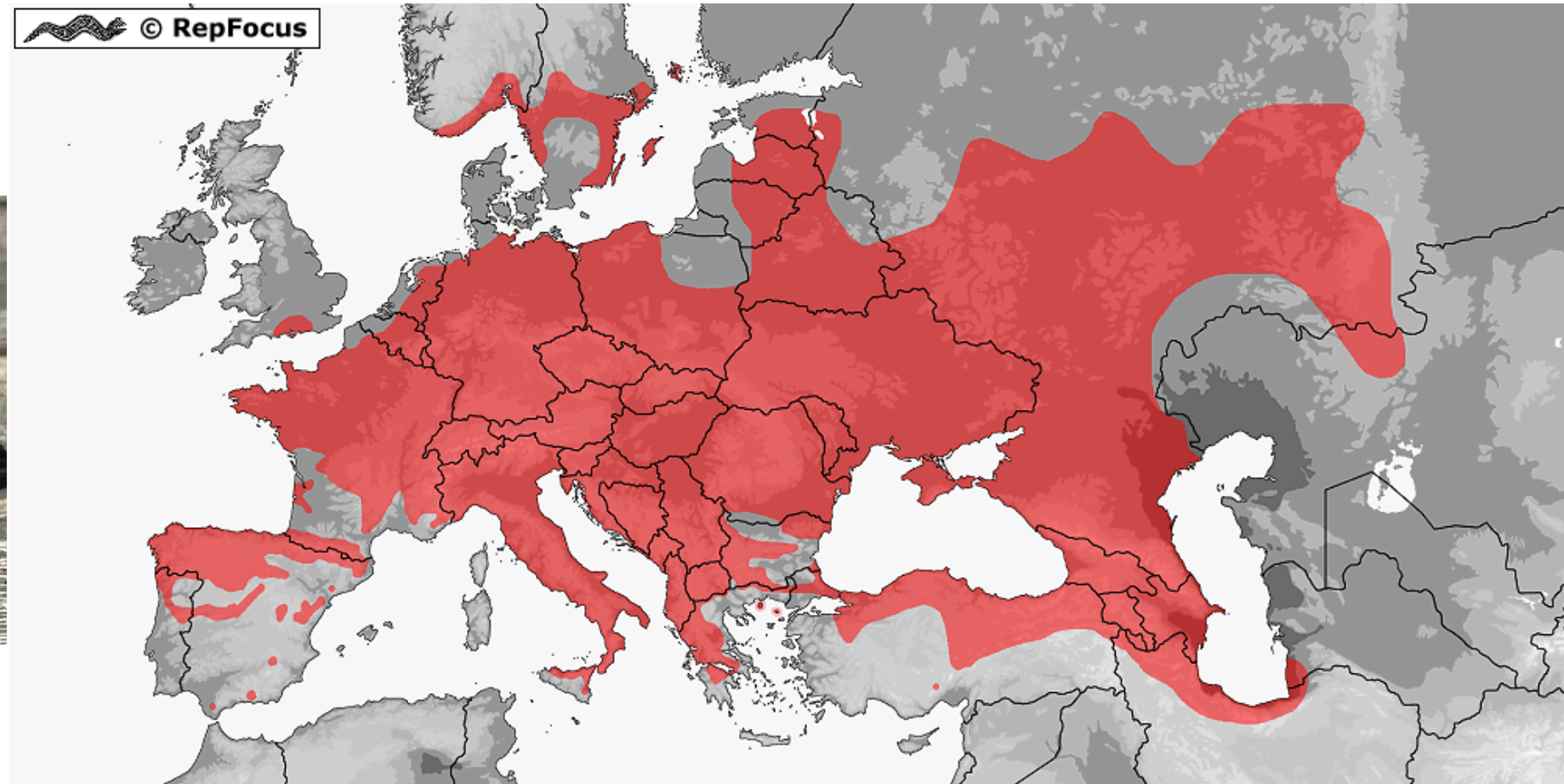


Dietary adaptations along the northern limit of
distribution: What does smooth snake
(*Coronella austriaca*) eat in Norway?

Smooth snake (*Coronella austriaca*)



https://repfocus.dk/maps1/TAX/Serpentes/Colubridae/Coronella_austriaca_map.html





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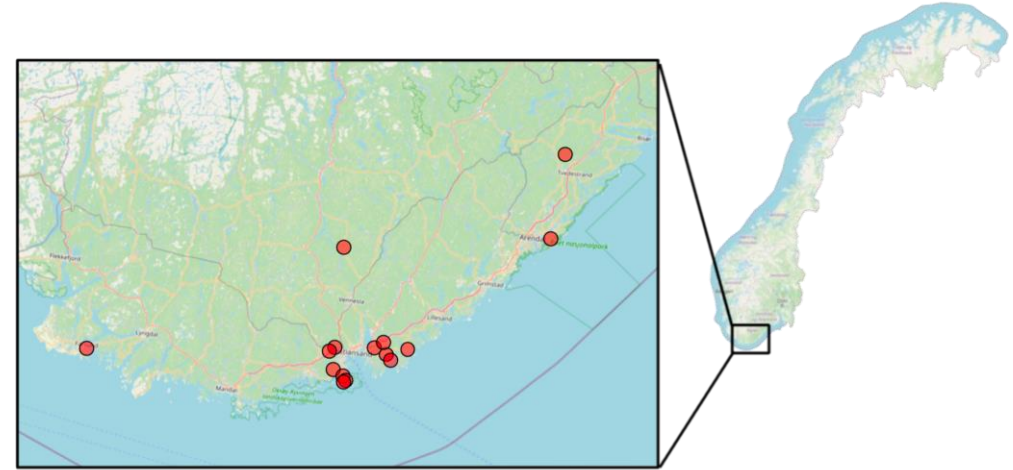


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Metabarcoding



DNA extraction



Amplification of *COI* gene
with fwhF2+fwhR2n primers



Illumina NovaSeq



Demultiplexing, trimming
and filtering in Qiime2



Quality control with
dada2 pipeline

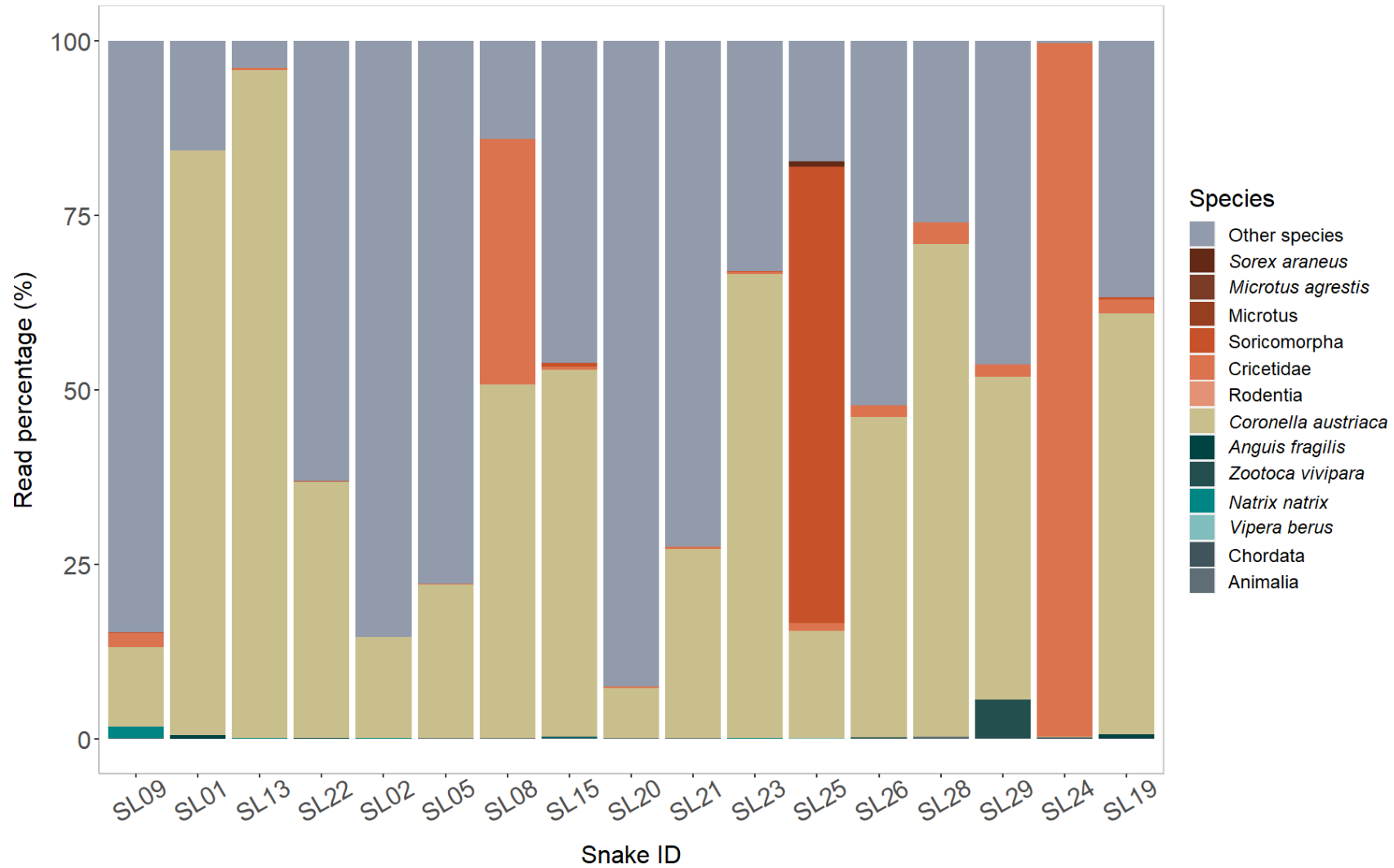


Assign taxonomy with
vsearch algorithm

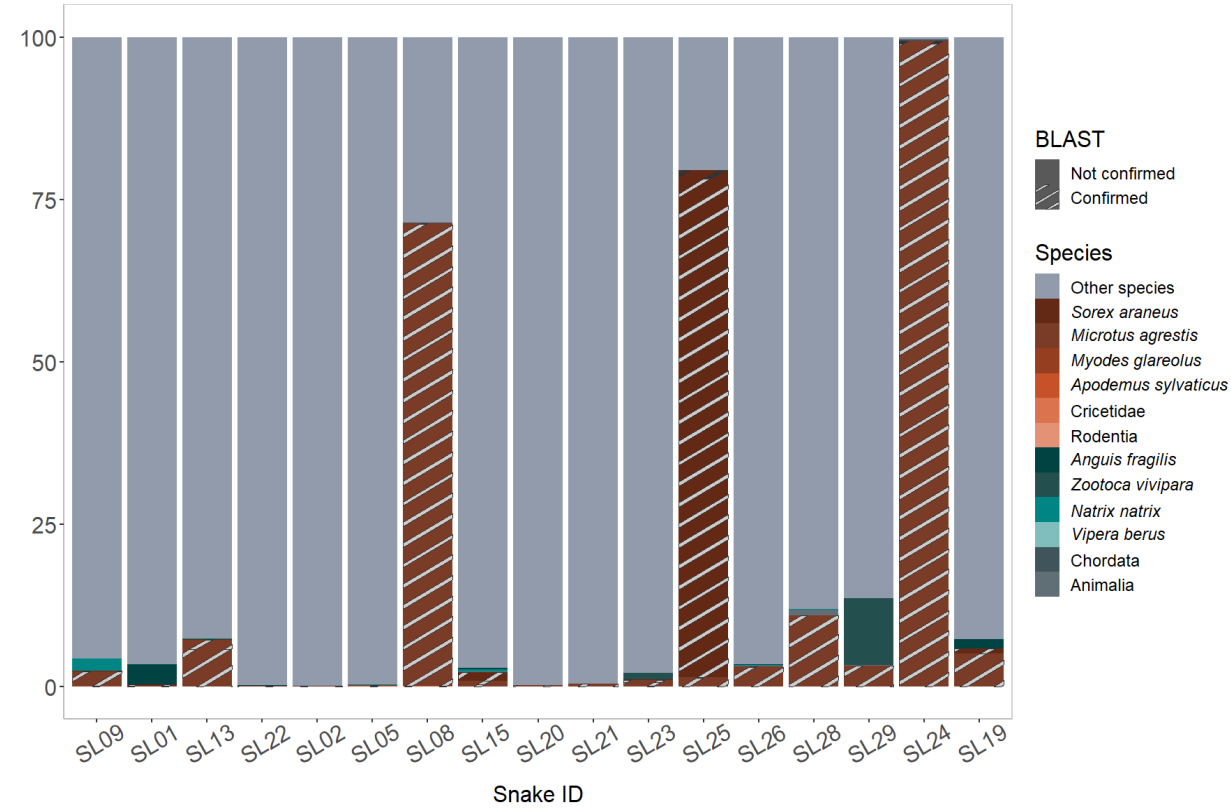
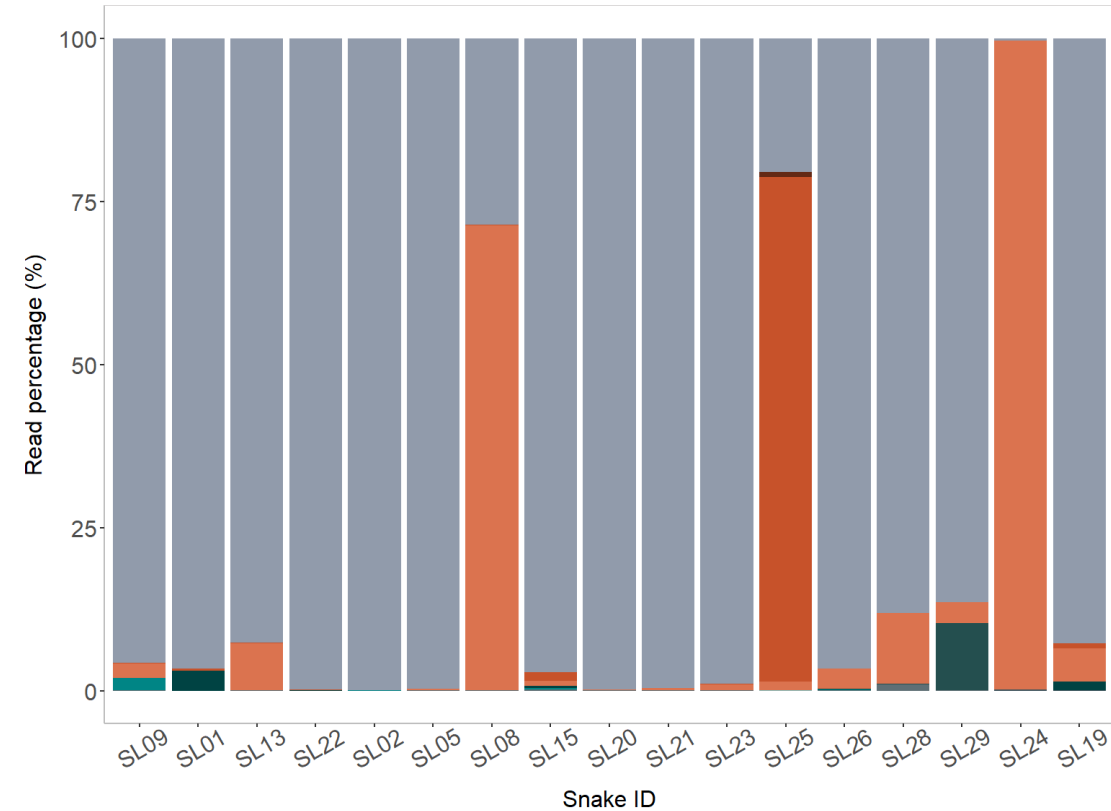


Confirmed further with BLAST

Detected prey



Detected prey – without host



Conclusion



Metabarcoding for dietary studies



Limitations of the method

Differentiate between cannibalism and contamination

Unrelevant sequences from decaying matter



Extend to other countries



Apply to invasive species

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