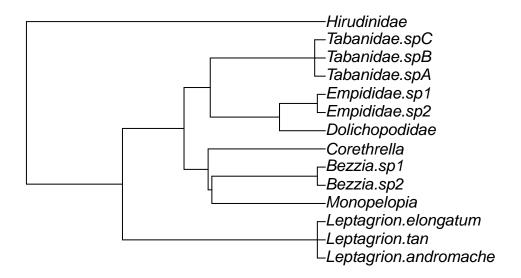
Appendix

 $Andrew\ MacDonald$

predator phylogeny

read.tree("../data/reorganized_data/predator_tree_time.newick") %>% plot



Prey community composition

Densities of prey species used in the experiment.

Species	density
Chironomus detriticula	10
Polypedium sp. 1	4
Polypedium sp. 2	2
Psychodid sp. 1	1
Scyrtes sp. A	5
$Culex\ spp.$	4
$Trente pholia\ sp.$	1

Model comparison for distributional similarity as a function of PD

Equation	AIC
$a \times (PD)^2 + b \times PD + c$	20.77
$a \times x + b$	21.51
$\frac{c \times e^{(a \times PD)}}{(c \times e^{(a \times PD)} + (1 - c))}$	21.56
$b \times e^{(a \times PD)}$	21.92
$peak \times e^{(-1 \times (PD)^2/a)}$	21.97

Model comparison for diet similarity as a function of PD

Note: these models are weighted by the number of prey species tested

Equation	AIC
$peak \times e^{(-1 \times (PD)^2/a)}$	-787.6
$b \times e^{(a \times PD)}$	-787
$\frac{c \times e^{(a \times PD)}}{(c \times e^{(a \times PD)} + (1 - c))}$	-786.9
$a \times (PD)^2 + b \times PD + c$	-786.9
$a \times x + b$	-785.1