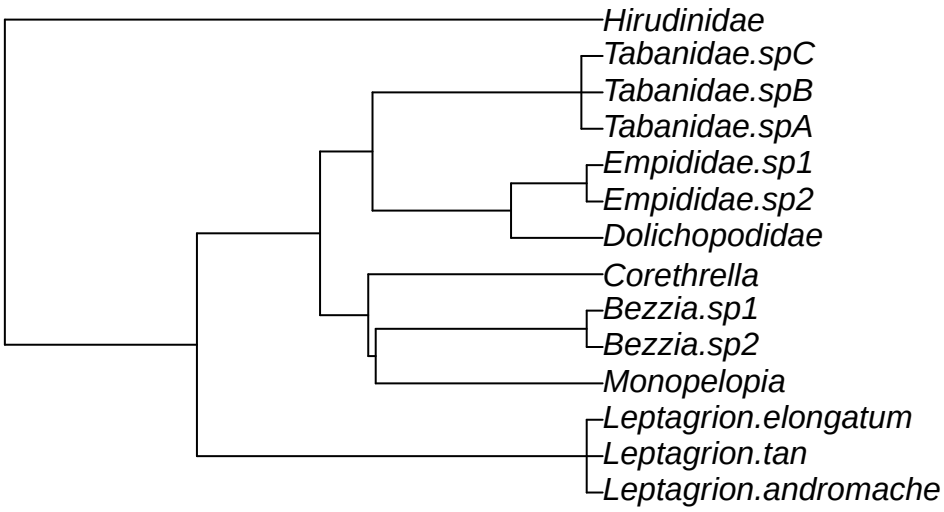
Appendix

Andrew MacDonald

predator phylogeny



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
Trentepholia 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
$a \times x + b$	-638
$b \times e^{(a \times PD)}$	-634.9
$\frac{c \times e^{(a \times PD)}}{(c \times e^{(a \times PD)} + (1-c))}$	-634.7
$a \times (PD)^2 + b \times PD + c$	-630.5
$peak \times e^{(-1 \times (PD)^2 / a)}$	-625.2

experimental summary

% Table created by stargazer v.5.0 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu
% Date and time: Wed, Jun 18, 2014 - 02:19:27 PM

Table 4:

	treatment	total.surv	fine	decomp	growth	N
1	andro	5.8 ± 1.9	0.5 ± 0.041	0.37 ± 0.028	4 ± 0.45	45 ± 6.2
2	control	14 ± 2.7	0.62 ± 0.076	0.33 ± 0.023	4.7 ± 1.2	53 ± 2.9
3	elong	7.8 ± 1.7	0.42 ± 0.055	0.36 ± 0.0077	2.9 ± 1.3	45 ± 6
4	elong + andro	5.2 ± 1.4	0.8 ± 0.15	0.33 ± 0.024	3.3 ± 1.2	52 ± 4.8
5	elong + leech	9 ± 1.1	0.55 ± 0.049	0.32 ± 0.0083	NA ± NA	43 ± 7.5
6	elong + tab	10 ± 1.5	0.59 ± 0.24	0.37 ± 0.024	4 ± 0.98	54 ± 7.8
7	leech	5.2 ± 0.58	0.52 ± 0.09	0.47 ± 0.12	2.6 ± 1.6	36 ± 5.2
8	tabanid	5.8 ± 1.4	0.42 ± 0.11	0.31 ± 0.027	5.1 ± 0.95	56 ± 7