Variance in Condition vs Nest Size Instar As Number

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Run on 04 November, 2016 at 2016-11-04 18:39:40

AIC Values of all possible models with instar included and sample size as weight and glmer

Rows removed with 2 or fewer data points

	Chisq	Df	p_value
logCtFm	6.81	1.00	0.009 **
InstarNumber	1.99	1.00	0.159
I(InstarNumber^2)	3.04	1.00	0.081 .
InstarNumber:InstarSex	28.12	1.00	0 ***
logCtFm:InstarNumber	0.03	1.00	0.859
InstarSex:I(InstarNumber^2)	21.77	1.00	0 ***
logCtFm:I(InstarNumber^2)	0.05	1.00	0.831
logCtFm:InstarNumber:InstarSex	0.59	1.00	0.443
logCtFm:InstarSex:I(InstarNumber^2)	0.86	1.00	0.355

[1] "term with highest p value, 0.859045072594666 is: logCtFm:InstarNumber"

	Chisq	Df	p_value
logCtFm	6.81	1.00	0.009 **
InstarNumber	1.99	1.00	0.159
I(InstarNumber^2)	3.04	1.00	0.081 .
InstarNumber:InstarSex	28.11	1.00	0 ***
InstarSex:I(InstarNumber^2)	21.77	1.00	0 ***
logCtFm:I(InstarNumber^2)	0.05	1.00	0.831
logCtFm:InstarNumber:InstarSex	0.62	2.00	0.733
logCtFm:InstarSex:I(InstarNumber^2)	0.86	1.00	0.355

[1] "term with highest p value, 0.830803996940689 is: logCtFm:I(InstarNumber^2)"

	Chisq	Df	p_value
logCtFm	6.81	1.00	0.009 **
InstarNumber	1.99	1.00	0.159
I(InstarNumber^2)	3.04	1.00	0.081 .
InstarNumber:InstarSex	28.11	1.00	0 ***
InstarSex:I(InstarNumber^2)	21.73	1.00	0 ***
logCtFm:InstarNumber:InstarSex	0.62	2.00	0.733
logCtFm:InstarSex:I(InstarNumber^2)	0.90	2.00	0.637

[1] "term with highest p value, 0.733465796060139 is: logCtFm:InstarNumber:InstarSex"

	Chisq	Df	p_value
logCtFm	7.19	1.00	0.007 **
InstarNumber	1.91	1.00	0.167
I(InstarNumber^2)	2.85	1.00	0.092 .
InstarNumber:InstarSex	29.45	1.00	0 ***
InstarSex:I(InstarNumber^2)	20.79	1.00	0 ***
logCtFm:InstarSex:I(InstarNumber^2)	3.19	2.00	0.203

[1] "term with highest p value, 0.203208887871501 is: logCtFm:InstarSex:I(InstarNumber^2)"

	Chisq	Df	p_value
logCtFm	7.24	1.00	0.007 **
InstarNumber	1.34	1.00	0.246
I(InstarNumber^2)	2.23	1.00	0.135
InstarNumber:InstarSex	29.18	1.00	0 ***
InstarSex:I(InstarNumber^2)	23.08	1.00	0 ***

[1] “term with highest p value, 0.246359090128936 is: InstarNumber”

	Chisq	Df	p_value
logCtFm	7.24	1.00	0.007 **
I(InstarNumber^2)	2.23	1.00	0.135
InstarNumber:InstarSex	30.52	2.00	0 ***
InstarSex:I(InstarNumber^2)	23.08	1.00	0 ***

[1] “term with highest p value, 0.134912346027408 is: I(InstarNumber^2)”

	Chisq	Df	p_value
logCtFm	7.24	1.00	0.007 **
InstarNumber:InstarSex	30.52	2.00	0 ***
InstarSex:I(InstarNumber^2)	25.32	2.00	0 ***

[1] “term with highest p value, 0.00711544920609045 is: logCtFm” [1] “still want to have Instar Number” note: Argument ‘method’ is deprecated. Use the nAGQ argument to specify Laplace (nAGQ=1) or adaptive Gauss-Hermite quadrature (nAGQ>1)

Checking final model fit

Graph

note: blue line just lm model

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Note: If line on graph is blue R could not plot the lmer, plotting a simple lm instead
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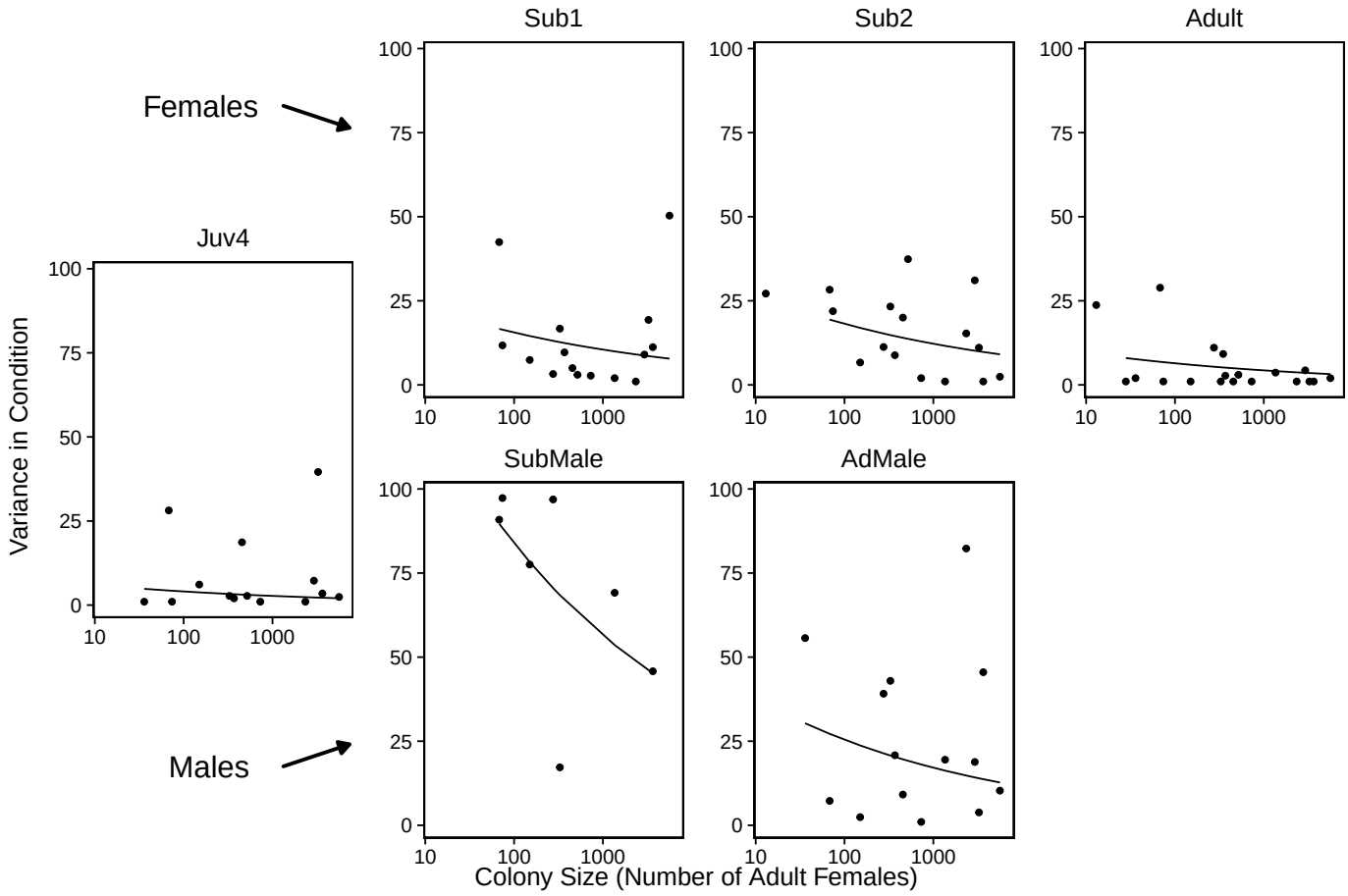

Graph of condition variance against instar