

Scientific Posters are one of the most common and effective methods for disseminating scientific information

A Poster is an means to communicate Science.

A Poster is a tool with which to communicate with a person!

A Poster is an advertisement/reflection of you and your science.



Even the best science will go unnoticed unless the poster is well made.



What do you care about most?

What do you notice First?

- Layout
- Title
- Figures
- Color

What do you notice Next?

- Research question
- Approach
- Results
- Importance

What do you notice Last?

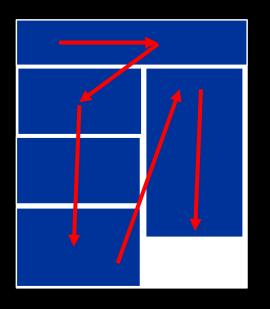
- Importance
- Logic of interpretation
- detailed methods
- Results
- Scientific Impact
- text

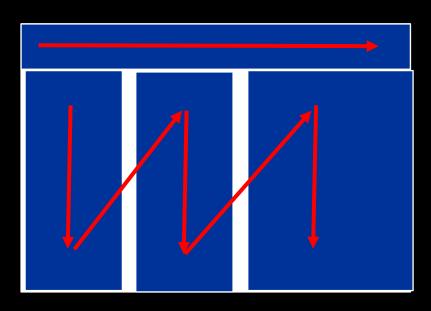
To get started
Summarize your question in 1 sentence
Summarize your result in 1 sentence
This will be your title

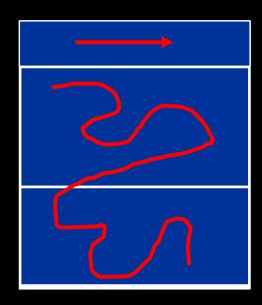
List your main points (there should be no more than 3)

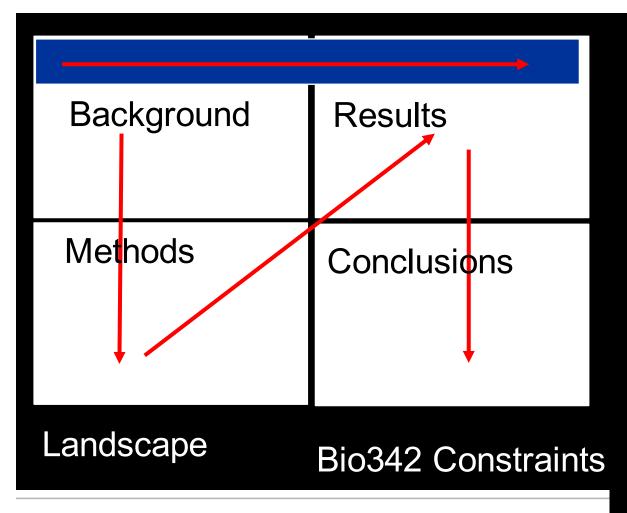
This will be the bulk of your poster

Decide on a layout that will let you tell your story









nt Projects - Basic Assignment

10/24-25 - Week 8 - pick a project

10/31-1 - Week 9 - Animal Care protocol

11/7-8 - Week 10 -

11/14-15 - Week 11 - Analysis M&B Chapter 9

11/28-29 - Week 12 (after Tday) - Presenting Findings M&B Chapter 10

12/8 - Week 13 - Abstract due on moodle (suggestions)

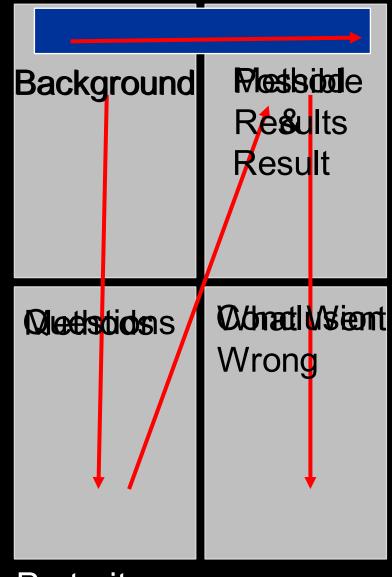
12/10 - print your poster at the Reed Print Shop (elliot basement)

- Post a .pdf of poster to Moodle

12/11 - Finals Week - Tuesday 9:00 AM - 11:30 - Poster Session (templates landscape, portrait)

12/11 - Bring Lab notebook to Poster Session

12/12 - Self Assessment - upload to moodle by 5:00 PM (template)



Portrait

Avoid Excessive Text

- Practice writing with as few words as possible
- Delete even more words
- Think of a way to use a picture
- Don't include any superfluous words

Playing it safe? Behavioral responses of a mosquito larvae encountering a

fish predator

Karthikeyan Chandrasegaran^{1,3,4}, Aveh Singh^{1,5}, Moumita Laha¹ and Suhel Quader¹.²

National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bengaluru, India; *Nature Conservation Foundation, Mysuru, India; *SASTRA University, Thanjavur, India; *Centre for Ecological Science, Indian Institute of Science, Bengaluru, India; *Department of Natural Science Red College, Perfaiture, India, *SASTRA University, Thanjavur, India; *Centre for Ecological Science, Bengaluru, India; *Department of Natural Science Red College, Perfaiture, University, Thanjavur, India; *Centre for Ecological Science, Bengaluru, India; *Department of Natural Science Red College, Perfaiture, University, Thanjavur, India; *Centre for Ecological Science, Bengaluru, India; *Department of Natural Science Red College, Perfaiture, University, Thanjavur, India; *Centre for Ecological Science, Bengaluru, India; *Department of Natural Science Red College, Perfaiture, University, Thanjavur, India; *Centre for Ecological Science, Bengaluru, India; *Department of Natural Science Red College, Perfaiture, University, Thanjavur, India; *Department of Natural Science (Bengaluru, India; *Department of

Introduction

Detecting and responding to precisions is crucial for prey survival (Lima, 1998). Physics shown to employ varied costs, both physical and chemical in 1998). Physics are consistent to enter the configuration of the product of the configuration of the product of the configuration of the product or evidence strategies (Lima and Dil. 1996). These behaviors are producted (St.) 1993. Given prediction (s.) as el ecological forces, rarely acts in sociation, animals often have to make tradeoth between product or (St.) 1993. Given prediction (s.) as el ecological forces, rarely acts in sociation, animals often have to make tradeoth between product or (Myrmington and Julien), 1990. Exploring the contexts within which these tradeoths cours is important to understand the evolution of these in this study, we sought to the development of physical study.

Dehaviors.

In this study, we sought to characterize the relative importance of physical and chemical predator cues in eliciting prodator-avoidance movement behaviors in Acides eapyris larvae. We asside whether the feeding state (satiety) of the prey affects the strength of response, expecting that starved larvae would be writing to take more risks than satistized arrawe while sensing predation threat. Finally, we tested a critical assumption: whether these behaviors corrier an advantage to the larvae in larvae of their survivol.





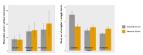
Methods

Aedes egypti larvae were maintained in our lab and used in trials when they were in the 3rd-4th instar. For the initial behavioral characterization, individual larvae were monitored in three environments: in tap water (control), kairomone only (guppies were maintained in a tank of water for three days awase were monitored in these environments in this disease control, and the second of the control of the contr



Results







Conclusions

Our sludy shows that mosquito larves after movement patterns in response to our sludy shows that mosquito larves after movement patterns in response to responses than individual class. This indicates that these organizers assess their environment by insegaring chemical and physical cuse can indicate in a larve or the presence of a predictor and physical cuse can indicate immirrer indicate the greaters of a predictor and physical cuse can indicate immirrer manner as predictor by the bedues larged and multiple message hypothories. We also demonstrate that these behaviors confer a survival advantage on the significantly after their movement in the presence of a predictor, including that predictor-avoidance behaviors prevent the animal from foraging and that the simulation of the contraction of the presence of a predictor, all these together. our results show that larves are sensitive to different types of predator cues and can after their response towards predation based on both cue type and their physiological state. We also showed that the behaviors we measured did, in fact, confer a survival advantage to the larvae. Aedes aegyptif is a vector for

Bibliography 1(Gh. A. (1980). Anginestatic responses and the perception of danger by mosquito lance. 6coday, 67, 436–444.

20, 2016. S. and District (1990). Behaviorate decisions made under the risk of procision. A review 32, 2016. S. (1993). Nonlethal effects in the ecology of precision-preprinteractions. 8io-Science. 43, 25–34.

Conclusions

<u>M</u>ncbs

We show that:

1. Mosquito larvae alter movement patterns in response to predators - by reducing the number and length of their wriggle bursts.

2. Combinations of cues elicit stronger responses than individual cues.

3. Starved larvae responded less strongly to predator cues than satisted

larvae. We also demonstrate that these behaviors confer a survival advantage on

Introduction

Prey employ different types of cues - physical and chemical - to sense and assess threat (Chivers and Smith, 1998).

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Aedes aegypti pantropically distributed species of mosquito that is a vector for both dengue and chikungunya, good model organism to study predator-prey interactions as they inhabit different environments in different fles stages - thus they have to adapt to the presence of different types of prodators. Understanding the ways in which these animals have adapted to maximize their swinzed is important for conceiving vector control programs maximize their swinzed is important for conceiving vector control programs.

We aim to characterize the relative importance of physical and chemical predator cues in eliciting predator-avoidance movement behaviors in Aedez aegypt larvae.

We ask whether the feeding state (satiety) of the larvae reduces the

the struck, by exposing me physics management to the structure of the physics and physical class as well as internal state; chemical cases can indicate present or a present and physical class as well as internal state; chemical cases can indicate immented danger. This allows the organisms to respond to oftonix in an in-kenetule manager. This allows the organisms to respond to oftonix in an in-kenetule manager and predicted by the backs agrinal and indigent message hypotheses. Furging can override proteine available to believe the office of the organization of the organization and from Compiler.

Behavior Testing

Behavioral tests administered on 3rd-4th instar lab reared Aedes aegypti larvae. The larvae were either satiated or starved for 8-12 hours.

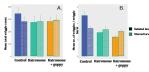
Playing it safe? Behavioral responses of a mosquito larvae encountering a

fish predator

Karthikeyan Chandrasegaran^{1,3,4}, Avehi Singh^{1,5}, Moumita Laha¹ and Suhel Quader^{1,2}
Institute of Fundamental Research, Bengaluru, India; ² Nature Conservation Foundation, Mysuru, India; ³ SASTRA University, T Sciences, Indian Institute of Science, Bengaluru, India; ³ Department of Natural Sciences, Rede College, Portland, USA

- The larval movement was measured along four parameters

Response to Predator Cues





Control Kairomon Kairomone e + guppy Both starved and satiated larvae spent more time on the surface when exp to predation cues, but did not differ from each other in the strength of their

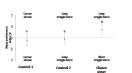
Predator Preference

Based on our behavioral observations, the particular form of movement the larvae displayed in the presence of a prodator and normal larval movement were simulated using Netlogo. Simulations were played on LCD screens on either sides of a tank containing a starved guppy.





Survival Value



Experiment 3: The fish preferentially spotted and responded to simulations of larvae moving in long wriggle bursts compared to those moving in short wriggle

Bibliography

48, 25–34.
49 (25–34.
4) Whormington J. and Juliano S. (2014). Hunger-dependent and sex-specific antigredator behavior of liarvae of a size-dimorphic mosquitic Artifipredator behavior of Aedes triseristus. Ecol Entómol. 39, 548–555.
5) Chivers D., and Smith R. (1998). Chemical alarm signalling in aquatic predator-prey systems: A review and prospectus. Ecosocience. 5, 338–352.

The audience should know what you did if they only read the bold headers.



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Introduction

Detecting and responding to produtors is crucial for prey survival (Lima, 1988). Prey are known to employ varied coses, both hybrical and dhemical in 1988). Prey are known to employ varied coses, both hybrical and dhemical in agratisms their entirely behavioral determines as a key component of their predator avoidance strategies (Lima and DII, 1990). These behaviors are demonstrated by the contract of their predator avoidance strategies (Lima and DII, 1990). These behaviors are demonstrated to the contract of these students of these students of these contracts within which these trackfords contracts within which these trackfords cours in benchmarked.

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Methods

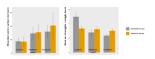
Aedes egypti larvae were maintained in our lab and used in trials when they were in the 3rd-4th instar. For the initial behavioral characterization, individual larvae were monitored in three environments: in tap water (control), kairomone only (guppies were maintained in a tank of water for three days awase were monitored in these environments in this disease control, and the second of the control of the contr



Results



experiment 1: Larvae exposed to out internet along pysical closes since significantly less wriging and reduced wriging burst length. Larvae exposed to only chemical close responded similarly, but showed slightly longer wriging bursts than larvae exposed to both forms of close. Starved larvae wriginged less than the satisted larvae in the control condition but did not show a change in



ved and satiated larvae spent more time on the surface on cues, but did not differ from each other in the



Experiment 3: The fish preferentially spotted and responded to simulations of larvae moving in long wriggle bursts compared to those moving in short wriggle bursts.

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Our sludy shows that mosquito larves after movement patterns in response to our sludy shows that mosquito larves after movement patterns in response to responses than individual class. This indicates that these organizers assess their environment by insegaring chemical and physical cuse can indicate in a larve or the presence of a predictor and physical cuse can indicate immirrer indicate the greaters of a predictor and physical cuse can indicate immirrer manner as predictor by the bedues larged and multiple message hypothories. We also demonstrate that these behaviors confer a survival advantage on the significantly after their movement in the presence of a predictor, including that predictor-avoidance behaviors prevent the animal from foraging and that the simulation of the contraction of the presence of a predictor, all these together. our results show that larves are sensitive to different types of predator cues and can after their response towards predation based on both cue type and their physiological state. We also showed that the behaviors we measured did, in fact, confer a survival advantage to the larvae. Aedes aegyptif is a vector for both dengue and chikungunya; thus, understanding the ways in which thes animals have adapted to maximize their survival is important for conceiving structuring vector control programs targeting disease vectors.

Bibliography ecology 67, 436–441.

Ziluma S. and Dill. _(1990). Behavioral decisions made under the risk of predation: A review and prospectus. Gan 2 Zool. 68, 619–640.

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Playing it safe? Behavioral responses of a mosquito larvae encountering a **™**ncbs fish predator

Karthikeyan Chandrasegaran^{1,3,4}, Avehi Singh^{1,5}, Moumita Laha¹ and Suhel Quader^{1,2} Institute of Fundamental Research, Bengaluru, India: ² Nature Conservation Foundation, Mysuru, India: ² SASTRA University Sciences, India institute of Science, Bengaluru, India: ² Department of Natural Sciences, Red College, Portland, USA

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Aedes aegypti

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- We show that:

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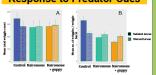
These results indicate that larvae assess their environment by integrating chemical and physical coses as well as internal state, chemical cuses can indicate the presence of a presenter and psycle coses can indicate immented diagner. This allows the organisms to respond to stimul in a not sensitive manner as predicted by the backer paignal entitlegath message hypotheses. Hugger can override protester avoidance below-legislate determine prevent the annual from the process of the pro

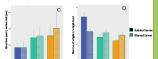
Behavior Testing

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Survival Value

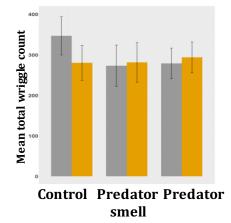


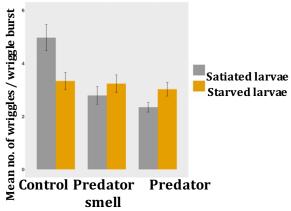
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Put the Method with the Result (same as you would in a talk) (different than you do in a paper)





Use color to your advantage.

Behavior Testing

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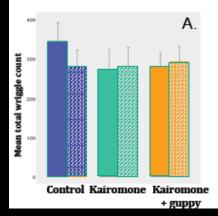
Larvae were exposed to:

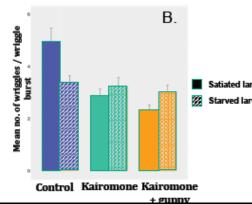
- · Control: tap water
- Chemical cues: Kairomone holding water from guppies feeding on larvae
- Chemical & physical cues: Kairomone + guppies holding water and guppy

The larval movement was measured along four parameters:

- A. number of wriggle bursts,
- B. number of wriggles per wriggle bursts,
- C. time spent at surface and
- D. frequency of surface visits.

Response to Predator Cues



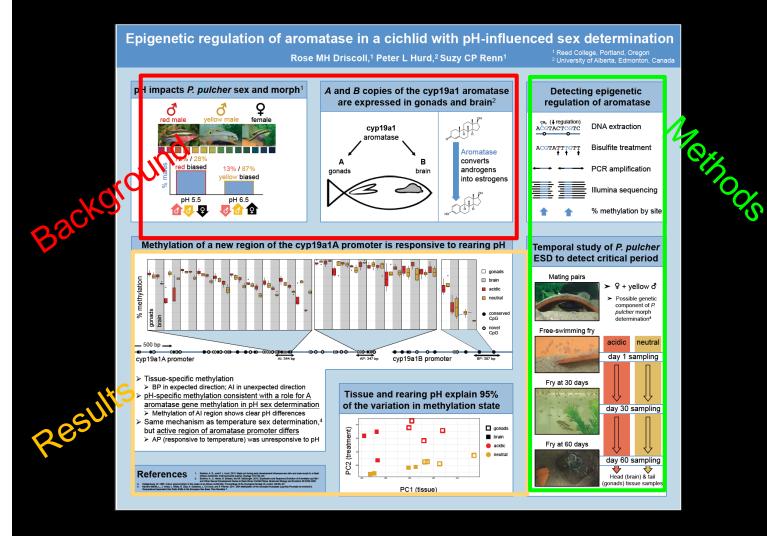


Class Project to Test the Challenge Hypothesis in a Dear Enemy Paradigm Bringing Integrative Animal Behavior into the Classroom Leilani Ganser¹, Chelsea A. Weitekamp², Hans A. Hofmann², & Suzy C.P. Renn¹ ¹Reed College Biology Department ₩ TEXAS ²University of Texas Austin, Department of Integrative Biology **FIGHT** "The Challenge Hypothesis" outlines the dynamic relationship between testosterone and aggression in Η Б Н contexts related to reproduction. It predicts an increase >>>> ELISA obs Dissection >>>> IEG-IHC in testosterone that is correlated with the demand for heightened aggression. HOH Stranger H obs Dissection >>>> IEG-IHC "The Dear Enemy Effect" explains social habituation seen as reduced territorial aggression observed **Neural Activation Behavior Observations Hormone Titers** between neighboring individuals as compared to **Brain Dissection Focal Sampling** strangers. Continuous Recording 30 min W/ Jwatcher Event Recorder incubation We test the hypothesis that a reduced hormonal challenge response is one component of the Fixation mechanisms that underlie the Dear Enemy. C-18 Crvosectionina extract elute Ethogram **Events ELISA Durations** Immunohistochemistry Immediate Early Genes An established model system in social neuroscience. A. ongoing student project) burtoni display extraordinary cognitive abilities in a social **Data Analysis** Google docs Acknowledgements: context dependent manner, making them an excellent 32 students in Bio342 at Reed College and Archive performed the experiment and are currently system in which to investigate the neural bases of analyzing the data. The Dear Enemy Project is

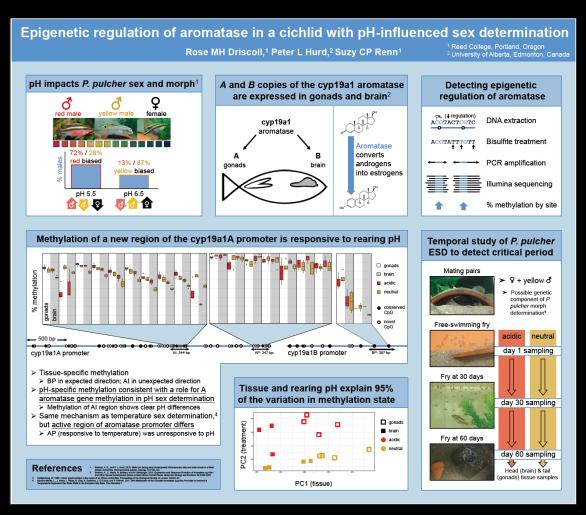
Your poster is a tool for you to interact with your audience Make your poster visually appealing
Use as many images as possible in place of text

funded by NSF-GRFP to CAW.

complex social behaviors



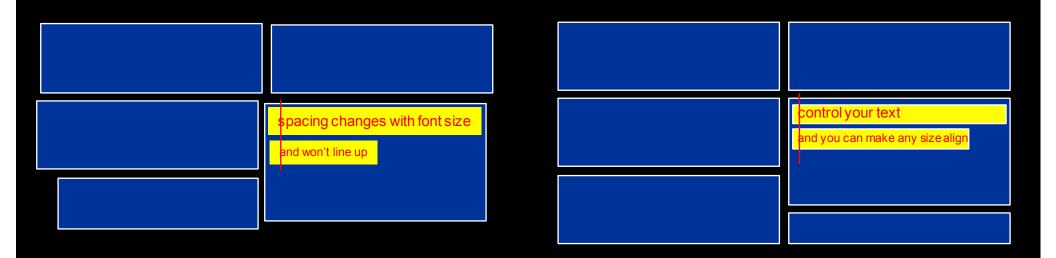
Leave plenty of open space text = < 20% Figures = 40% Open Space = 40%



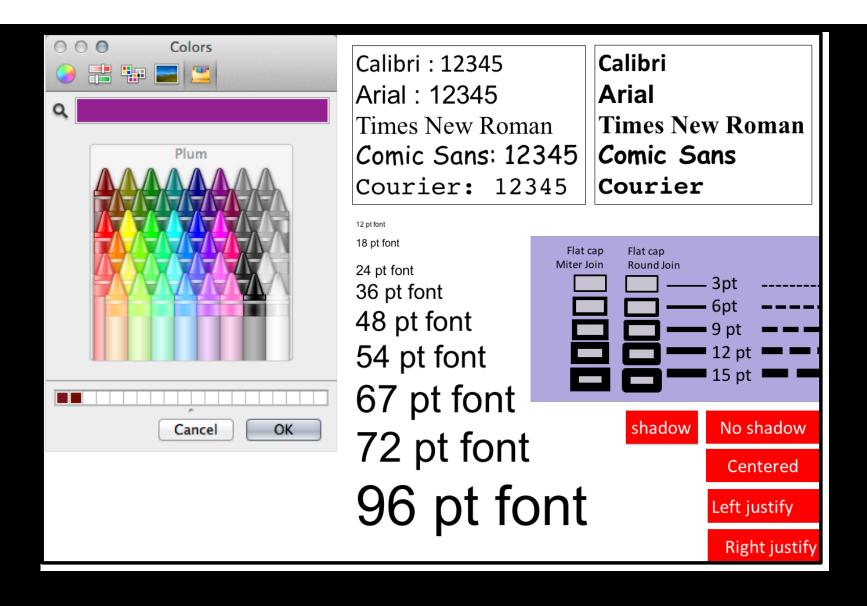
Make background and box colors subtle, not jarring

pH of Acid and Neutral

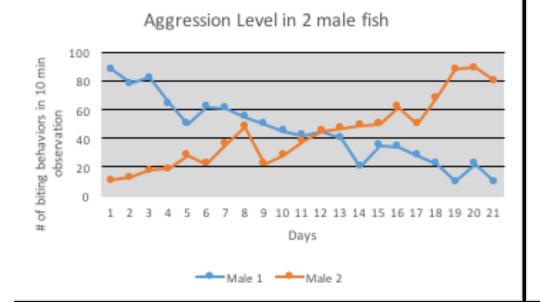
Make your colors work for you

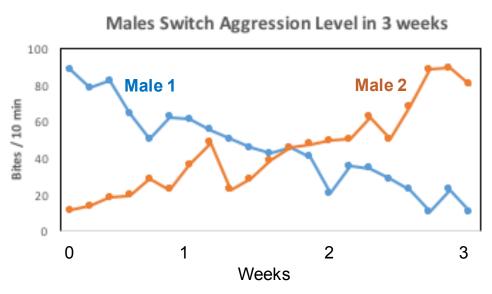


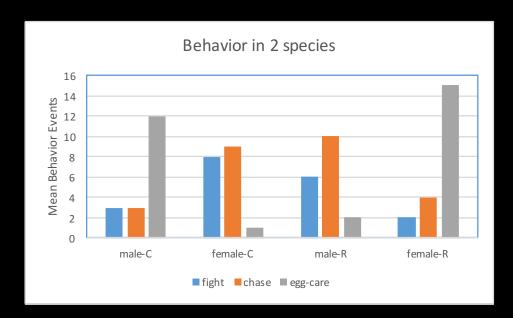
Take the time to align everything Don't use color filled text boxes Use spaces not tabs to

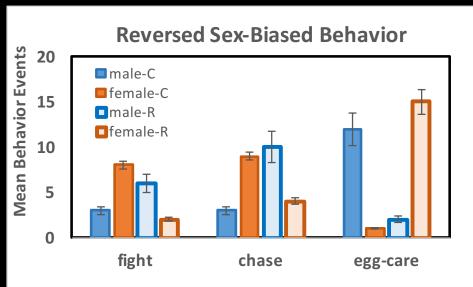


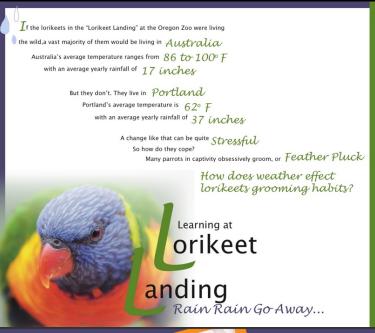
Choose Fonts and sizes appropriately





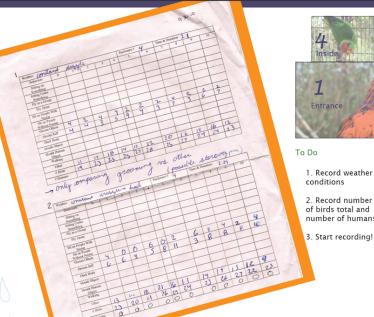
















How does weather effect location? Birds Forced Outside How does location effect behavior? People Field Work is Hard How can this be improved?

What this Means

Where do we go from Here?

Effect of visitors on birds

Problems?

Indonesia vs. Australia

Age of birds and behavior

Pair Grooming

What activity is beneficial

Individual birds

http://www.reed.edu/biology/professors/srenn/pages/teaching/posters_2010/amms.pdf http://www.reed.edu/biology/professors/srenn/pages/teaching/posters 2010/gaic poster.pdf http://www.reed.edu/biology/professors/srenn/pages/teaching/posters

Do Eagles Make Flies Ready for Love?

Quinn Langdon: langdonq@reed.edu Katherine Thomas: thomaska@reed.edu

Reed College Bio342

How does the expression of eagle (eg) change with Drosophila mating status?

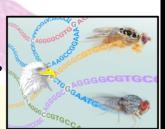
What are the cellular functions of the eagle gene product?

- Nuclear hormone receptor
- Transcription factor
- Zinc finger protein
- Serotonin neuroblast fate determining factor

What is known about eg's effect on mating behavior?

QTL analysis identified *eg* as being associated with variations in mating behavior.¹ Mating behaviors could include:

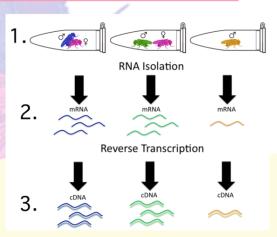
- Courtship occurrence
- Courtship latency
- Copulation occurrence
- Copulation latency



Hypothesis: eg is upregulated in mated male flies compared to courting and virgin males

Behavioral Assay, RNA Isolation, and Reverse Transcription

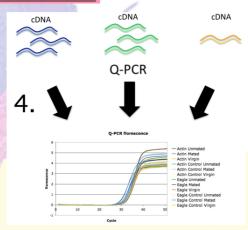
- 1. 3-day-old virgin male Drosophila were put in eppendorf tubes with 3-day old virgin females and either mated (left), remained unmated (center), or remained virgins (right).
- 2. RNA was isolated from 3 flies in each condition (mated, unmated and virgin). The isolated RNA was then treated with DNase I to eliminate contaminant DNA from the samples.
- 3. RNA isolated in 2. was then reversed transcribed into cDNA.



Hypothesis: eg is upregulated in mated male flies compared to courting and virgin males

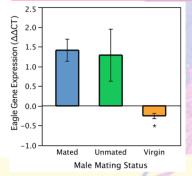
Quantitative PCR

4. cDNA transcripts from 3. were used to perform Q-PCR to determine eg expression. Actin isoform B was used to normalize the samples. Ct values were determined from the raw Q-PCR data graph (bottom right) and averaged in each of the 3 different conditions to determine eg expression.



Conclusion: eg is upregulated in male flies who court or mate with females as compared to isolated virgin males

Analysis of Q-PCR Results



ΔΔCt values for 3 mated, 3 unmated, and 3 virgin male flies indicated that eg is expressed significantly more in males exposed to females as compared to isolated virgin males (ANOVA, F=11.4, df = 1,7, P= 0.0118). Note: * indicates significant difference from other conditions.

Future Directions

- •We achieved amplification in Q-PCR with DNase I treated RNA samples, which indicates DNA contamination. Would these same results be observed if our samples hadn't been contaminated?
- •We only tested 3-day-old males. Would expression be different in males of different ages or in females?
- •Very few of our male flies mated. What conditions could be established to optimize mating?

Acknowledgements & References

- We would like to thank Suzy Renn, Kelsey Wood, Maryanne McClellan & the Biology Stockroom Staff for helping us with this project.
- 1. Moehring, A.J., Mackay, T. F.C. "The Quantitative Genetic Basis of Male Mating Behavior in Drosophila Melanogaster." *Genetics*. 2004; 167 (3): 1249-1263.
- Benson, D.A., Karsch-Mizrachi I, Lipman DJ, Ostell J, Wheeler DL. "GenBank." Nul Acids Res. 2005; 1 (33): D34-D38.

Abstracts :: due date Dec 8th.

An abstract (~7 sentences) with a descriptive (fun) title and the authors names.

This should describe:

- the "Big Question"
- the specific area of research
- the general technique or approach applied,
- the major results found and conclusion that can be drawn.

Please post to Moodle by 5:00

Poster Presentation :: Dec 11th 9:00 AM

Tips for making and Presenting a Poster template1, template2, on website. During the poster session, students will be required to visit several posters and to formally evaluate at least two posters using the standard evaluation forms that will be provided in class and handed in at the end of class.

Please post a .pdf copy to Moodle

Turn in Lab Notebooks at Poster Session

Self Assessment: Dec 12th

Each student will **individually** assess his/her own effort & success. See Moodle for worksheet. Please post to Moodle by 5:00