Introduction

- Mosquito species *Culex pipiens* in the US have contributed to spread of West Nile virus in the 1999-2001 epidemic.
- The species exhibits varying host preferences depending on its zone of residence and city, a phenomenon that has not been proved in lab.

Objective of the Study

The aim of this project was to establish lab-based evidence for the host preference of *Culex pipiens* and molestus.

Methods

- Received eggs of *C. pip. Pipiens* and molestus from Chicago and NYC
- Used olfactometer to test host preference for female adults of both species
- Host options were human and quail, with some trials between human versus no host and quail versus no host

Results

- First few sets of experiments did not yield meaningful host preferences in *Cx. Pipiens* species.
- Could have been impacted by a variety of factors, such as upbringing, diet, weather variations, and more
- Higher response rate in second set of experiments but also not the response initially under scrutiny

Discussion

- There is some evidence that *Culex pipiens molestus* do prefer human hosts in lab settings but the preference is not demonstrated as strongly as previous field work in the suggested should be the case.
- Sample sizes across all populations were not comparable.
- Variation in upbringing across generations may have been important as well.

Questions

- What variables are important in directing host preference behaviors in *C. pipiens*?
- Which of these possible variables was a contributor to the lack of response observed in this series of studies?

Conclusion

- Preliminary suggestion that *C. pipiens molestus* seems to prefer human hosts based on olfactory cues.

Acknowledgements

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Practitioner poster
Title Goes Here: catchy and concise

Your name, class year, and department
The place where you worked this summer
Funded by CHW under the XXX program (IIP, PICS, U.S. Health Policy Scholars, Health Grand Challenges, Princeton Global Health Fellows)

Introduction
• Describe the overall situation, using bullet points
• Keep text to a minimum size of 24
• This should frame your research so readers can understand why it is important for global health

Objective of Internship
A one sentence overview of your learning objectives in taking this internship

Reflection
• Explain how you contributed this summer
• Highlight what you learned during the internship
• Use the space wisely. Split, or trim down the results section if there is more information contained in other sections

Work profile
• Explain the overall organizational objectives
• Explain the role of your research project in that
• Use a new bullet point for each new concept
• Describe your role in the research project

Objective of Internship
A one sentence overview of your learning objectives in taking this internship

Reflection
• Explain how you contributed this summer
• Highlight what you learned during the internship
• Use the space wisely. Split, or trim down the results section if there is more information contained in other sections

Looking ahead
• Explain how your summer experience has impacted your future plans

Questions
• Are there questions that remain unanswered following your internship?

Conclusion
• Draw conclusions based upon the internship experience

Acknowledgements
Acknowledge the organization where you work as well as supervisors. Acknowledge CHW and whoever else may have sponsored the research. Acknowledge the program (IIP, PICS, etc) through which you did the research.