## Who's that Pokémoth? <br> Barcoding Micro-Moths

## Introduction

- Mcdonald Woods undergoing restoration after severe degradation.
- Surveys of changing biodiversity have continued throughout recovery.
- Incr. species of moths, Incr. woodland species diversity
- Often, moths are too small or physically similar to other moths to differentiate species.
- Genetic information can be used to help identify tricky specimens. - COI Region, ~658 bp, site w/ low intraspecies diversity \& high interspecies diversity.
- DNA degraded from preservative.


## Objective

- Identity the 500+ individuals brought to CBG to species level without destroying the fragile moths.
- Hope to preserve individual as museum specimens for further comparison to other unidentified moths.

Methods


## Results

- Variation in success
- Often only short sequences recovered, misreads \& misidentifications


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Unique tags added to each specimen's fragments

## Discussion

- Fragmentation over time could
have led to low quality reads.
- Possible contamination by Hyles lineata in lab.
- Hope to achieve consistent full sequences and successful identifications with continued modifications to protocol


## References

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