

DEPARTMENT OF  
BIOLOGICAL SCIENCES

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# SEMINAR

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APRIL 1

10:00AM

159 IRVINE HALL

Refreshments will be provided



## **Integrating genomics and museum collections to investigate species' responses to global change**

**Lisa Barrow, Ph.D.**

A compelling question for evolutionary and conservation biologists alike is why certain species decline or go extinct in response to global change, while others persist or diversify? One key to answering this question lies in natural history collections, which have been documenting this period of great change over the last century. The application of genomic methods to new and existing museum collections can unlock the evolutionary history, demographic processes, and species interactions that influence how species respond to global change. This seminar will discuss research from two systems, North American amphibians and avian malarial parasites, which illustrate how genomic, environmental, and trait data can be integrated to understand why species respond differently to climate change and emerging pathogens.



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