

GENOMICS IN THE JUNGLE

Sample to Sequence in the Amazon Rainforest, Lab and Field Training

We use genetic techniques to determine species delimitations, define populations, understand mating systems, explain behavioral differences in foraging efficiency, screen for disease, conduct paternity studies, evaluate immune status and functioning, and explore microbiome diversity... and these are just a few examples of the full breadth of genetics research as applied to wildlife biology. Genetics is revolutionizing biological research, and in the past few years we have even witnessed the successful deployment of instruments that enable molecular work to be conducted 'on-the-fly' and in the field. These new tools are minimizing the hassles and barriers associated with transporting samples around the world to distant labs that possess the equipment and resources to extract, amplify, and sequence DNA. In many ways, this new technology is democratizing wildlife research by empowering field scientists all around the world with comparable molecular tools to directly advance their research and conservation initiatives. This course will take you to the Peruvian Amazon, where you will learn how field research is conducted, assist in sample collection, and then actually extract, amplify, sequence, and interpret genetic data to answer several practical research questions about wildlife ecology and natural history.

LOCATION: Madre de Dios, Peru
DURATION: 2 weeks
DATES: July 22 - August 4
APPLICATION DEADLINE: May 1, 2018
CREDITS: 3 credit equivalency
LANGAUGE: English

WEB: <https://fieldprojects.org/course/genomics-in-the-jungle/>

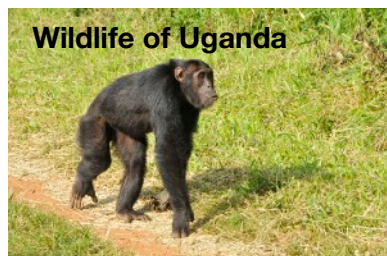
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fieldprojects.org/participate/courses-2



Tropical Ornithology



Primatology



Wildlife of Uganda



Tropical Entomology



Desert Herpetology