

20,000 years of evolution and ecosystem dynamics in the world's largest tropical lake reconstructed from sediment cores, fossils and ancient DNA

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01.03.2019 – 30.09.2024

Overview

Grant number

183566

Funding scheme

Sinergia

Call

Sinergia 2018 June

Approved amount

2,568,206 CHF

Status

Completed

Research institution

University of Berne - BE

Institute

Institut für Ökologie und Evolution Universität Bern

Output data

[5 Academic events](#)

Summary

Scientific abstract

The mutual influence between the biodiversity and the structure and functioning of ecosystems is a central and pressing question at the interface between evolutionary ecology and environmental sciences. Evolution is a population dynamic process that plays out in an ecosystem context of changing species interactions and abiotic conditions. Reciprocal interactions between evolutionary and ecosystem processes are fundamental f...

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Persons

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Disciplines and keywords

mySNF disciplines (provided by researchers): Interdisciplinary, Hydrology, Limnology, Glaciology, Other disciplines of Environmental Sciences, Genetics, Ecology

Fields of research (mapped from mySNF Disciplines): n/a, Environmental Sciences, Ecology, Genetics, Hydrology

Keywords: paleoecology, ecosystem evolution, aDNA, paleogenomics, cichlid fish, adaptive radiation, ecosystem ecology, climate change

Academic events

vEGU European Geosciences Union 2021

Type: Talk given at a conference

Title of contribution: Multiproxy paleolimnological reconstruction of Lake Victoria`s environmental history, East Africa

19.04.2021, Vienna, Austria

18th Swiss Geosciences Meeting

Type: Poster

Title of contribution: Chronology of Vegetation and Fire Changes in the Lake Victoria area, Eastern Africa

07.11.2020, ETH Zürich (online), Switzerland

18th Swiss Geosciences Meeting

Type: Poster

Title of contribution: Multiproxy paleolimnological reconstruction of Lake Victoria's environmental history, East Africa

07.11.2020, ETH Zürich (online), Switzerland

Biology 20

Type: Poster

Title of contribution: Exploring ancient DNA to study Lake Victoria's haplochromine cichlid radiation

06.02.2020, Uni Fribourg, Switzerland

Biology 20

Type: Poster

Title of contribution: Dead fish do tell tales – Using ancient DNA to understand extinction events

06.02.2020, Uni Fribourg, Switzerland

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