

Evolutionary biology in the postgenomic era

February 12, 2019 at 12:00 noon

Michael Hofreiter
University Potsdam

As all fields working with nucleic acid sequences, evolutionary genetics has become completely transformed by the DNA sequencing revolution into what is today mostly evolutionary genomics. This is true for work with both modern and ancient DNA. Using examples from a variety of mammalian species, I will show what can be learned about the evolutionary history of both extant and extinct species using full genome sequencing. The insights range from a better understanding of population size fluctuations over revealing historical gene flow across vast geographical distances to uncovering the hybrid origin of extant and extinct species.

Michael Hofreiter received his PhD from the University of Leipzig in 2002. He worked at the MPI-EVA in Leipzig as postdoc and group leader until he became professor at the University of York in 2009. In 2013, he moved to the University of Potsdam as Professor for Evolutionary Adaptive genomics. His research interests lie in a better understanding of the evolutionary history of animal species, with regard to phylogeny, demography and genetic basis of adaptations.



The new Earth Surface Dynamics seminar series aims to bring together the broad range of researchers on Telegrafenberg looking at Earth surface processes (e.g., hydrology, geochemistry, geobiology, geochemical/carbon cycling, geomorphology) once a month. The aim for these talks is to be broad and accessible and deal with big, global topics, so that non-experts and specialists alike can find them enlightening.

Main lecture room, Haus H
Telegrafenberg, 14473 Potsdam

HELMHOLTZ CENTRE POTSDAM
**GFZ GERMAN RESEARCH CENTRE
FOR GEOSCIENCES**