

**Invitation to a Guest Lecture
at the joint colloquium of the Institute of Biology and Environmental Sciences and the
Department of Neuroscience**

Module bio890: Current topics in biology

Dr. Reto Burri

Schweizerische Vogelwarte Sempach

**Modular architecture and evolutionary crowd-sourcing underpin convergent
colour evolution in wheatears**

Genomic studies suggest that rapid evolution is often underpinned by standing genetic variation or hybridization, rather than novel mutations. However, insights into the prevalence of each of these trajectories to phenotypic evolution are still limited. In the present talk, I introduce a study system – wheatears (genus *Oenanthe*) – that promises diverse insights into the roles of ancestral variation, hybridization, and novel mutations in phenotypic evolution. I show how we combine evidence from phylogenomic and population genetic perspectives to infer the molecular architecture of plumage coloration and trace the evolutionary history of color variation in wheatear and ultimately gain insights into the complex histories of phenotypic evolution.

14.11.2023, 4:15 pm, W04 1-162

Host: Prof. Dr. Miriam Liedvogel (Director Institute of Avian Research), IfV

Members of all institutes are cordially invited to join the lecture.