

Poster Abstract

Barcoding Austria's fishes and lampreys – *status quo* and first interesting findings

Lukas ZANGL, Daniel DAILL, Thomas FRIEDRICH & Stephan KOBLMÜLLER

According to the most recent Red Lists Austria is home to 84 fish and lamprey species, a number that does not include many of the recently introduced exotic fish species. Even though large amounts of molecular data have been generated in a multitude of studies on (Austrian) fish species, hardly any DNA barcodes of Austrian fishes and lampreys were available prior to ABOL. Hence, one ambitious goal of the pilot project on vertebrates has been to generate DNA barcodes of as many fish (and lamprey) species as possible. In the last three years we have not only generated DNA barcodes for ~3/4 of the Austrian fish species, but also focused on clarifying the taxonomic status of Austrian gudgeons (Cyprinidae: Gobioninae). Specifically, i) we discovered a new species, the emerald gudgeon (*Romanogobio skywalkeri*, Friedrich et al., 2018), which based on current knowledge appears to be endemic to the upper Mur river, ii) we show that the fish generally known as *R. kesslerii* is in fact *R. carpathorossicus*, and iii) we show that *Gobio* in the Danube system (including the Raba and Mur/Drava drainages) are neither *G. gobio* nor *G. obtusirostris*, but the result of secondary (likely postglacial) contact and admixture of three different *Gobio* lineages – *G. gobio*, *G. obtusirostris*, and a “Balkan lineage” and also show signatures of (nuclear) introgression from *R. vladikovi*.

FRIEDRICH T., WIESNER C., ZANGL L., DAILL L., FREYHOF J., KOBLMÜLLER S. 2018. *Romanogobio skywalkeri*, a new gudgeon (Teleostei: Gobionidae) from the upper Mur River, Austria. *Zootaxa* 4403, 336-350.

Addresses:

Lukas ZANGL MSc, Daniel DAILL MSc, Priv.-Doz. Dr. Stephan KOBLMÜLLER, Institute of Biology, University of Graz, Universitätsplatz 2, 8010 Graz.
E-Mail: lukas.zangl@uni-graz.at, stephan.koblmueeller@uni-graz.at

Daniel DAILL MSc, Consultants in Aquatic Ecology and Engineering – blattfisch e.U., Gabelsbergerstraße 7, 4600 Wels. E-Mail: daill@blattfisch.at

Dipl.-Ing. Thomas FRIEDRICH, Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences Vienna, Gregor-Mendel-Straße 33, 1180 Vienna. E-Mail: thomas.friedrich@boku.ac.at

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien. Frueher: Verh.des Zoologisch-Botanischen Vereins in Wien. seit 2014 "Acta ZooBot Austria"](#)

Jahr/Year: 2018

Band/Volume: [155_2](#)

Autor(en)/Author(s): Zangl Lukas, Daill Daniel, Friedrich Thomas, Koblmüller Stephan

Artikel/Article: [Barcoding Austria's fishes and lampreys – status quo and first interesting findings 65](#)