

Poster Abstract

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

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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.

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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"](#)

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