



Distinct colonization waves underlie the diversification of the freshwater sculpin (*Cottus gobio*) in the Central European Alpine region

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Kay Lucek and colleagues have found that within the Aare catchment, populations from geographically distant lakes are more closely related to each other than to nearby river populations. This pattern is consistent with two distinct colonisation waves rather than parapatric ecological speciation after a single colonisation wave.

Furthermore, they find two depth distribution modes in three lakes of the Aare catchment (shallow and deep) and significant genome-wide differentiation between them in one lake. The bullheads of the Aare catchment may be in an early stage of adaptive radiation with the development of a lake lineage distinct from the parapatric river bullheads and the repeated onset of depth-adapted differentiation.

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Contact



Ole Seehausen

Tel. +41 58 765 2121

ole.seehausen@eawag.ch

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