

عنوان مقاله:

Hidden biodiversity of gammarids in Zagros freshwater ecosystems

محل انتشار:

بیستمین کنگره ملی و هشتمین کنگره بین‌المللی زیست‌شناسی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Freshwater amphipods of genus Gammarus Fabricius, 1775 display extensive distribution and biodiversity in the northern hemisphere. Until 2015, Iran was believed to only harbor 18 species of gammarids. However, it is shown that this genus includes extensive genetic diversity and many cryptic species. Here, we sampled gammarids from Zagros Mountains freshwater ecosystems at 30 stations. Amphipods were transferred to 96% ethanol and altitude, geographic coordination and qualitative ecological features of the area were recorded. Morphological identifications showed the samples to belong to *G. komareki* and *G. lacustris* species complexes. Molecular delimitation methods (ABGD, SP, GMYC) based on mitochondrial COI uncovered the presence of 10 putative new species, each with a unique genetic identity. All the uncovered species are endemic to Zagros freshwater ecosystems which is an important fact to be considered in making conservational decision on Iran's endemic species and preserving the genetic pool of the country

کلمات کلیدی:

Hidden biodiversity, DNA barcoding, Amphipoda, Gammarus, Freshwater ecosystems, Zagros region

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