

GRAPHICAL ABSTRACT

Genetic structure of lake and stream populations in a Pyrenean amphibian (*Calotriton asper*) reveals evolutionary significant units associated with paedomorphosis

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The rare lake populations of the Pyrenean brook newt *Calotriton asper* with individuals exhibiting paedomorphosis (retention of larval traits at the adult stage) constitute evolutionary significant units. Because of their genetic differentiation with surrounding stream and lake populations, they can be considered at a high risk of extinction due to the introduction of invasive species such as fish and chytrids that have already been found in some of them. Conservation measures should therefore target in priority these peculiar populations. Photo: M. Denoël.

