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## **ABSTRACTS**

*Edited by*

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## Mapping subterranean biodiversity in Italy: the state of the art

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The results of a four-year project dealing with the distribution of terrestrial and freshwater invertebrates in Italy allowed to collect more than 450000 records for approximately 10000 species of invertebrates and lower vertebrates and store them into a database. The project involved more than 100 taxonomists; the guidelines used for species selection, the structure of the database, the methods used to georeference the data set, and the mapping software are illustrated. The analysis performed on the data set enabled species richness and endemism patterns to be mapped using 10 km UTM grid cells within Italy. Within this dataset, the most important subterranean taxa were included; several examples of distribution are reported both for terrestrial (Carabidae, Cholevidae, Pseudoscorpiones) and freshwater (Oligochaeta, Crustacea, Gastropoda) species. The structure of the dataset allows to build distributional models based on historical and ecological scenarios and the compilation of a 'red list' of the Italian subterranean fauna, and to supplement the annexes of the Habitat Directive 92/43 to protect in a more effective way Italian cave fauna.

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## Evolutionary history of subgenera of *Drimeotus* phyletic series of cave Leptodirinae from Romania

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Cave Leptodirinae from Romania are represented in the Apuseni Mountains by the endemic phyletic series *Drimeotus*. This is divided in three different genera: *Pholeuon*, *Drimeotus* and *Protopholeuon*. The first and the second of these comprise several subgenera: *Pholeuon* (s. str.), endemic for Bihorului Mountains and *P. (Parapholeuon)*, endemic for Padurea Craiului Mountains – for the first genus. In