# Submitted Abstract

ID IMC22-FSAbstr- 904

| | |
|---|---|
| **First Author**<br>First Name<br>Last Name | <br>Daniel<br>Aguayo |
| **Submitting Author**<br>First Name<br>Last Name | <br>Daniel<br>Aguayo |
| **Correspondence** | daguayo@ugr.es |
| **Co-Authors**<br>**>> E-Mails will be not listed** | Sandoval, Pedro; Ruano, Francisca; Pascual, Felipe; Tinaut, Alberto |
| **Organisations** | Universidad de Granada, Spain |
| **Country** | Spain |
| **Region** | Western Europe |
| **Title** | Scientific Collections In Areas Of High Biodiversity. |
| **Keywords** | Scientific Zoological Collection, Biodiversity, Sierra Nevada (Granada-Spain), Smart Ecomountains (Lifewatch-Eric) |
| **Type** | List Of Focus Session |
| **Focus Session ID** | 48 |

## Abstract

Biological collections contain thousands of preserved specimens stored, cataloged, and arranged systematically as a reference for science. These collections act as a source of biodiversity information to determine species morphology, distribution ecological niche, conservation status, evolution, phenology, etc. Also, specimens are used to provide samples of DNA to study relationships (phylogeny), evolutionary processes or ecological processes (i.e. through barcoding). They also act as vouchers to validate scientific observations, including type specimens (used in the description of known species) of obligatory consultation and benchmark in the process of identification, classification and description of new species.

The Scientific Zoological Collection of the University of Granada (Spain) originates in the 1970´s from different projects and research works until today. Since 2010, a management and registration plan for all material, including a specific database, is being carried out in collaboration with other biodiversity databases, particularly GBIF. Specimen records contain an identification, geographic coordinates, distribution maps, associated metadata, and frequently a photo of the species and the list of articles related to that specimen.

Currently, the Scientific Collection database contains 27.654 records corresponding to 126.914 specimens belonging to more than 2.874 species, and about 500 Type and Paratype specimens, most from Sierra Nevada and other Baetica mountains.

Within the context of Smart Ecomountains, the Thematic Center on Mountain Ecosystems of LifeWatch-ERIC (Sierra Nevada, Spain), this zoological collection aims: i) to become a reference center of Southern Iberian mountains, especially for Sierra Nevada; ii) given that some groups are underrepresented, to conduct various harvesting campaigns (particularly for insects) in Sierra Nevada and other Baetic mountains to provide a better geographical and taxonomic coverage; iii) to formally establish connections with other research centers at national and international level; iv) to create a genoteca to ensure subsequent genetic analysis of the material, either by freezing (-20º Celsius) or by inclusion in absolute alcohol.