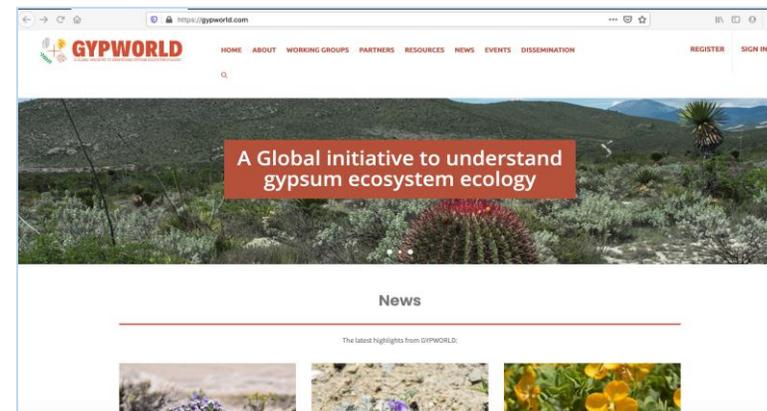


## A Global initiative to understand gypsum ecosystem ecology

The GYPWORLD project aims at an integrated global study of the ecology and evolution of plant and lichen life on gypsum, including eight gypsum-rich regions from four continents that differ in geological origin, climate, and flora. In particular, the project aims to:

- Assess the plant and lichen diversity of gypsum
- Investigate the evolutionary origins and assembly of these floras
- Evaluate potential adaptive mechanisms on gypsum, the functional structure of gypsum plant and lichen communities, and the processes regulating gypsum ecosystem function
- Analyse the responses of gypsum communities to global change drivers and explore how gypsum ecosystem restoration/conservation may help mitigate the effects of global change
- Promote the study of gypsum ecosystems;
- Communicate the ecological and conservation value of these ecosystems to the public.

Gypsum soils occur worldwide and represent natural laboratories of evolution and ecology. The unusual mineral content of gypsum soils is a significant barrier to the growth of most plants, and yet these soils host highly diverse endemic floras that have evolved independently on five continents. Nevertheless, these ecosystems are poorly understood compared to those of other unusual substrates. Little is known about the conservation status of gypsum floras, the potential impact of climate change on them, and their responses to mitigation and restoration.



<http://gypworld.co>

### Partners

John Carroll University

John Carroll University  
USA



Tarbiat Modares University  
Iran



Universidad Nacional Autónoma de México  
Mexico



Universidad de Almería  
Almería (Spain)



Department of Forest - Ministry of Agriculture, Natural Resources and Environment, Government of Cyprus  
Cyprus



Universidad Rey Juan Carlos, UJC  
Madrid, Spain



OPEN UNIVERSITY OF CYPRUS  
www.uoc.ac.cy



Consejo Superior de Investigaciones Científicas, CSIC  
Jaca, Spain



GOVERNMENT OF WESTERN AUSTRALIA  
Department of Biodiversity, Conservation and Attractions, Western Australia  
Australia



Università degli Studi di Reggio Calabria  
Calabria (Italy)



OBERLIN COLLEGE & CONSERVATORY  
USA



UNLPam  
Universidad Nacional de La Pampa  
La Pampa (Argentina)



Ankara Üniversitesi  
Ankara, Turkey



Ferdowsi University of Mashhad  
Iran



Universidad de Concepción  
Concepción (Chile)



New Mexico State University  
New Mexico (USA)



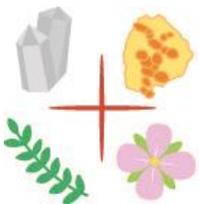
University of Tehran  
Tehran (Iran)



Universidade de Coimbra  
Coimbra (Portugal)



Call: H2020-MSCA-RISE-2017  
Type of Action: MSCA-RISE  
Acronym: GYPWORLD  
Current Phase: Grant Management  
Number: 777803  
Duration: 48 months  
GA based on the: H2020 MGA MSCA-RISE  
Start Date: 01 Jan 2018  
Estimated Project Cost: €751,500.00  
Contact: Marina ROYER TOUPITSYNA



# GYPWORLD

A GLOBAL INITIATIVE TO UNDERSTAND GYPSUM ECOSYSTEM ECOLOGY

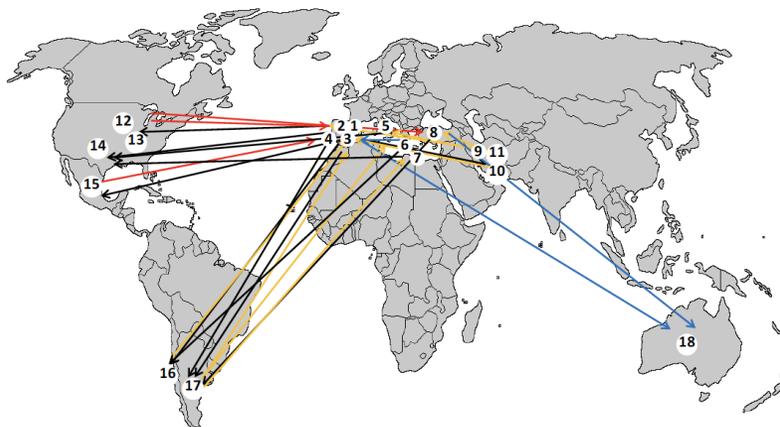
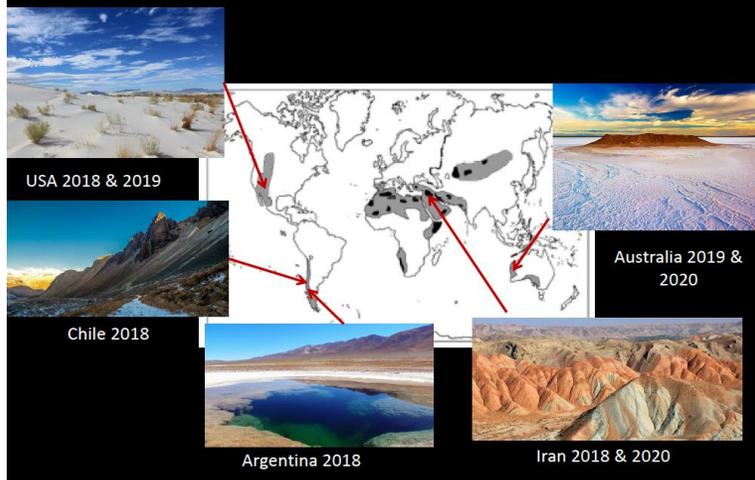
## A Global initiative to understand gypsum ecosystem ecology

### The GYPWORLD project

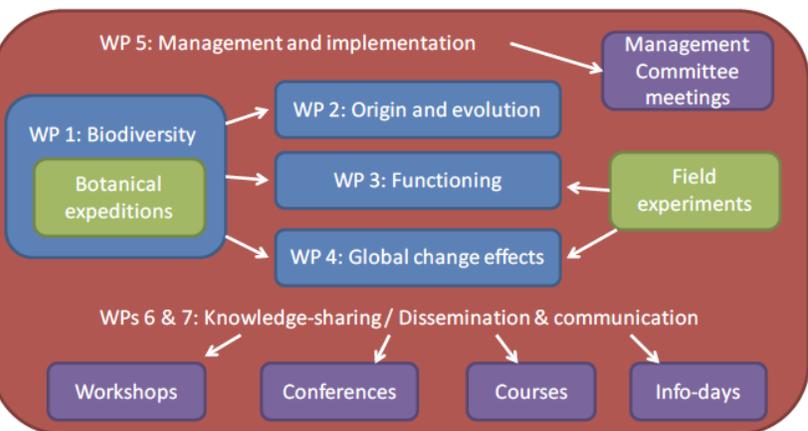
General aim: perform an integrated, global study of the ecology and evolution of plant and lichen life on gypsum.



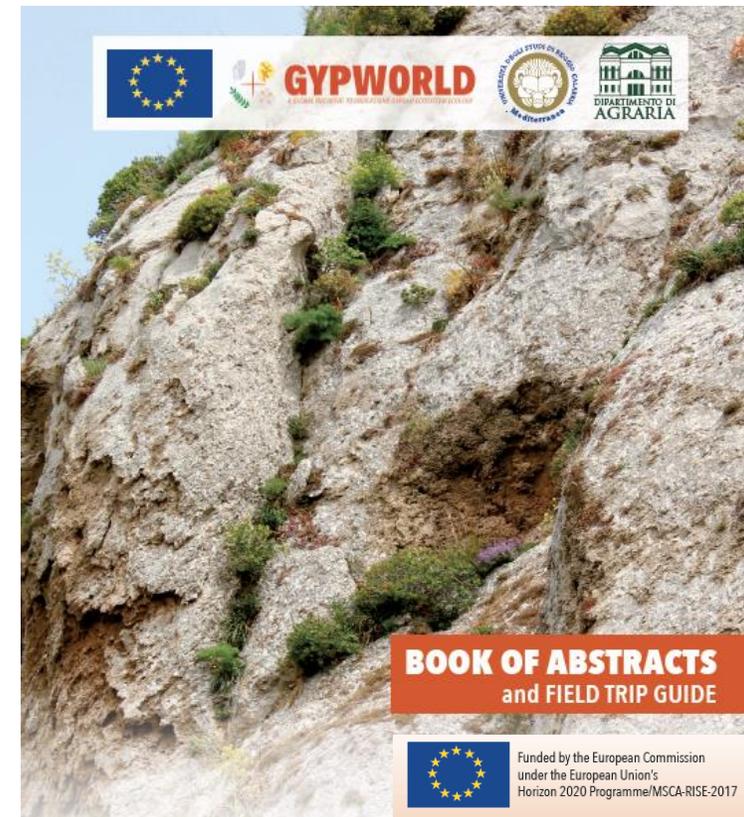
### GYPWORLD project: Expeditions planned



Distribution of project partners and the direction of the proposed mobility actions of researchers among participant institutions. 1 = CSIC, 2 = URJC, 3 = UAL, 4 = UC, 5 = UNIRC, 6 = OUC, 7 = DF-GC, 8 = AU, 9 = UT, 10 = TMU, 11 = FUM, 12 = OC, 13 = JCU, 14 = NMSU, 15 = UNAM, 16 = UdeC, 17 = UNLP, 18 = NTH.



Flow chart showing the different scientific (blue) and cross-cutting (red) work packages of the Project (WPs) and their interrelationship through the main research (green) and management-networking (purple) actions planned.



**2<sup>nd</sup> INTERNATIONAL WORKSHOP  
GYPWORLD**  
1-4 APRIL 2019 - REGGIO CALABRIA (ITALY)

Editors: Carmelo Maria Musarella and Giovanni Spampinato

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