



A global initiative to understand gypsum ecosystem ecology

Fact Sheet

Project Information

GYPWORLD

Grant agreement ID: 777803

[Project website](#)

DOI

[10.3030/777803](https://doi.org/10.3030/777803)

Project closed

EC signature date

21 November 2017

Start date

1 January 2018

End date

31 October 2023

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 747 000,00

EU contribution

€ 724 500,00

Coordinated by

AGENCIA ESTATAL CONSEJO
SUPERIOR DE
INVESTIGACIONES CIENTIFICAS



Spain

Objective

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. We propose 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. We will 1) assess the plant and lichen diversity of gypsum; 2) investigate the evolutionary origins and assembly of these floras; 3) evaluate potential adaptive mechanisms on gypsum, the functional structure of gypsum plant and lichen communities, and the processes regulating gypsum ecosystem function; 4) 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; 5) promote the study of gypsum ecosystems; and 6) communicate the ecological and conservation value of these ecosystems to the public. With the involvement of gypsum experts from 18 academic and non-academic organizations from 11 countries, this project provides an innovative, integrative, and interdisciplinary approach to address key questions in gypsum ecosystem ecology, evolution, and management. The project thus strengthens existing international collaborative networks and consolidates Europe's leadership in gypsum ecosystem research, including management and conservation plans and the identification of traits for crop improvement on gypsum soils, enhancing its attractiveness as a leading destination for related R&D

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [microbiology](#) > [mycology](#) > **[ethnolichenology](#)**

[engineering and technology](#) > [environmental engineering](#) > [ecosystem-based management](#) > **[ecological restoration](#)**

[natural sciences](#) > [biological sciences](#) > **[evolutionary biology](#)**

[natural sciences](#) > [biological sciences](#) > [ecology](#) > **[ecosystems](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > **[climatic changes](#)**



Keywords

[gypsum ecosystems](#)

[evolution](#)

[conservation](#)

[ecological restoration](#)

[ecophysiology](#)

[functional ecology](#)

[community ecology](#)

[plant-plant interactions](#)

[plants](#)

[lichens](#)

[endemic flora](#)

Programme(s)

Topic(s)

[MSCA-RISE-2017 - Research and Innovation Staff Exchange](#)

Call for proposal

[H2020-MSCA-RISE-2017](#)

[See other projects for this call](#)

Funding Scheme

[MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange \(RISE\)](#)

Coordinator



AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS

Net EU contribution

€ 247 500,00

Total cost

€ 261 000,00

Address

CALLE SERRANO 117

28006 Madrid

 **Spain** 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (7)



UNIVERSIDAD REY JUAN CARLOS

Spain

Net EU contribution

€ 225 000,00

Address

CALLE TULIPAN
28933 Mostoles

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 234 000,00



UNIVERSIDAD DE ALMERIA

Spain

Net EU contribution

€ 135 000,00

Address

CARRETERA SACRAMENTO CANADA
04120 Almeria

Region

Sur > Andalucía > Almería

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)

Total cost

€ 135 000,00



UNIVERSIDADE DE COIMBRA

 Portugal

Net EU contribution

€ 9 000,00

Address

PACO DAS ESCOLAS

3004-531 Coimbra 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 9 000,00



UNIVERSITA DEGLI STUDI MEDITERRANEA DI REGGIO CALABRIA

 Italy

Net EU contribution

€ 27 000,00

Address

VIA SALITA MELISSARI FEO DI VITO

89124 Reggio Calabria 

Region

Sud > Calabria > Reggio di Calabria

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

Total cost

€ 27 000,00



ANOIKTO PANEPISTIMIO KYPROU (OPEN UNIVERSITY OF CYPRUS)

 Cyprus

Net EU contribution

€ 13 500,00

Address

YANNOU KRANIDIOTI AV 33 2ND FL
2220 Lefkosia 

Region

Κύπρος > Κύπρος > Κύπρος

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 13 500,00



YPOURGEIO GEORGIAS, AGROTIKIS ANAPTYXIS KAI PERIVALLONTOS

 Cyprus

Net EU contribution

€ 4 500,00

Address

Athalassa
1417 Nicosia 

Region

Κύπρος > Κύπρος > Κύπρος

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 4 500,00



ANKARA UNIVERSITESI

 Türkiye

Net EU contribution

€ 63 000,00

Address

DOGOL CADDESI
06100 Tandoğan Ankara 

Region

Batı Anadolu > Ankara > Ankara

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 63 000,00

Partners (11)



PARTNER 

TARBIAT MODARES UNIVERSITY (INSTRUCTOR'S TRAINING UNIVERSITY)

 Iran

Net EU contribution

€ 0,00

Address

INTERSECTION OF SHAHID CHAMRAN AND JALAL AL AHMAD HIGHWAY
14115 175 TEHRAN

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



PARTNER 

FERDOWSI UNIVERSITY OF MASHHAD

 Iran

Net EU contribution

€ 0,00

Address

ADMIN. BLDG. UNIVERSITY CAMPUS AZADI SQ
9177948974 MASHHAD 

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



PARTNER 

UNIVERSITY OF TEHRAN

 Iran

Net EU contribution

€ 0,00

Address

ENGHELAB ISLAMI AVENUE, CENTRAL ADMINISTRATION BUILDING
14174 TEHRAN 

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



PARTNER 

UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO (UNAM)

 Mexico

Net EU contribution

€ 0,00

Address

AV. UNIVERSIDAD 3000, COYOACAN
04510 CIUDAD DE MEXICO 

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



PARTNER 

JOHN CARROLL UNIVERSITY

 United States

Net EU contribution

€ 0,00

Address

1 JOHN CARROLL BOULEVARD AD 250
44118-4581 University Heights 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PARTNER 
OBERLIN COLLEGE

 United States
Net EU contribution

€ 0,00

Address
173 WEST LORAIN STREET
44074 Oberlin 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PARTNER 
The Regents of New Mexico State University

 United States
Net EU contribution

€ 0,00

Address

Corner of Espina Street & Stewart Street
NM 88003-8001 Las Cruces 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PARTNER 
UNIVERSIDAD NACIONAL DE LA PAMPA

 Argentina
Net EU contribution
€ 0,00

Address
CORONEL GIL 353
6300 Santa Rosa 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PARTNER 
UNIVERSIDAD DE CONCEPCION

 Chile
Net EU contribution
€ 0,00

Address

VICTOR LAMAS 1290
4070386 Concepcion 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PARTNER 
DEPARTMENT OF BIODIVERSITY CONSERVATION AND ATTRACTIONS

 Australia
Net EU contribution
€ 0,00

Address
17 DICK PERRY AVENUE
6983 Bentley Delivery Centre 

Activity type
Research Organisations

Links
[Contact the organisation](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



PARTNER 
NOORDWES-UNIVERSITEIT

 South Africa
Net EU contribution
€ 0,00

Address

HOFFMAN STREET 11
2531 Potchefstroom 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

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European Union, 2025