

2nd Mediterranean Plant Conservation Week

“Conservation of Mediterranean Plant Diversity: Complementary Approaches and New Perspectives”

Main Session: S5- Disruptive ethnobotany in blasted landscapes: rethinking people-plant relationships in the Mediterranean

Ethnobotanical knowledge in the High Atlas: potential for plant biodiversity conservation

Institutions:

Global Diversity Foundation and Moroccan Biodiversity and Livelihoods Association

Authors:

Ugo D'Ambrosio^{1,2,*+,}, Irene Teixidor-Toneu^{1,5,+}, Hajar Salamat^{1,3}, Soufiane M'Sou^{1,3}, Hamid Ait Baskad³, Fadma Ait Illigh³, Touda Atyah³, Giada Bellia⁴, Abdeddaim El Hajjam^{1,3}, Hafida Mouhdach³, Hassan Rankou^{1,3}, Emily Caruso¹ & Gary J.Martin¹

¹ Global Diversity Foundation (GDF), Canterbury, UK

² Etnobiofic Research Group- Universitat de Barcelona and Institut Botànic de Barcelona (CSIC-ICUB), Barcelona, Spain

³ Moroccan Biodiversity and Livelihoods Association (MBLA), Marrakech, Morocco

⁴ Independent researcher, Italy

⁵ Natural History Museum, University of Oslo, Norway

*Corresponding author: ugo@global-diversity.org

+Both authors contributed equally



L-Università
ta' Malta

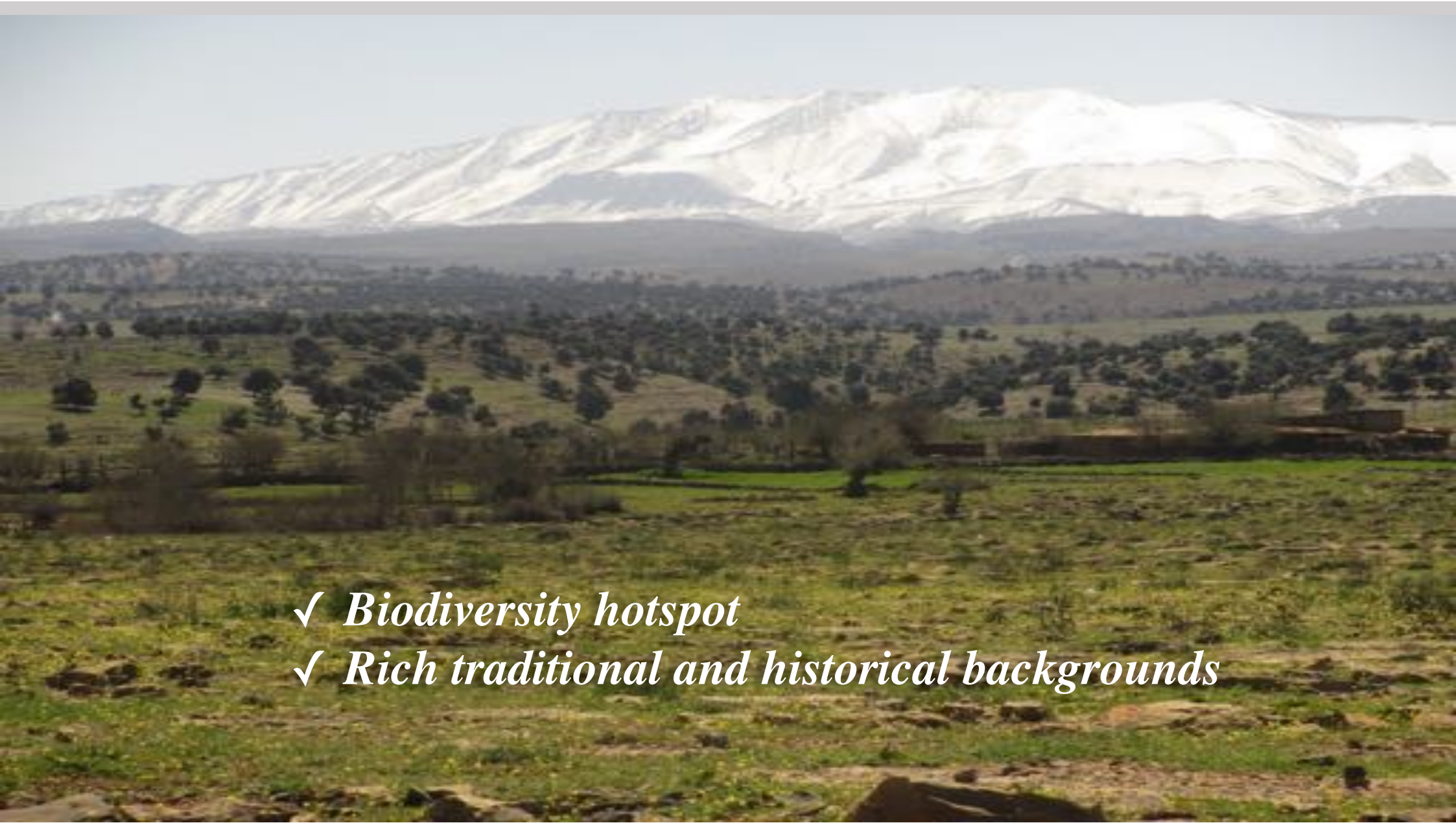
Supported by:











✓ *Biodiversity hotspot*

✓ *Rich traditional and historical backgrounds*



Participatory action-research

“High Atlas Cultural Landscapes”



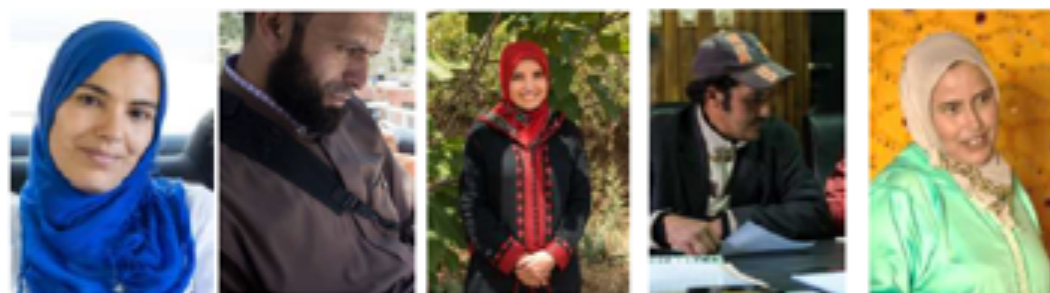
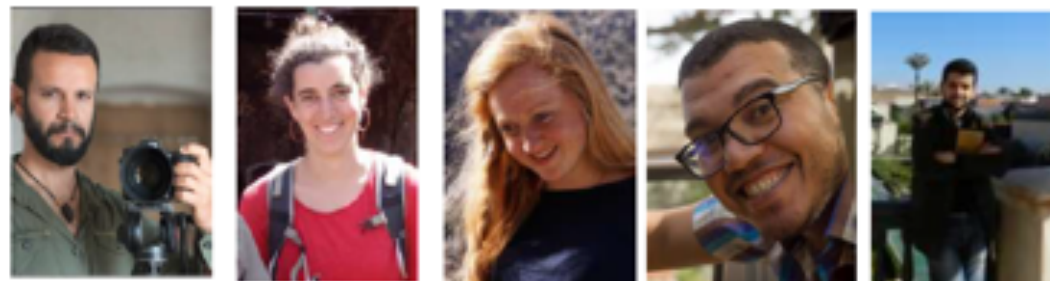
Map of northern Morocco with the Atlas Mountains and study sites in relation to the city of Marrakech.

Source: Google Earth.





Partner population



MBLA

MOROCCAN BIODIVERSITY
& LIVELIHOODS ASSOCIATION

Microsoft Excel spreadsheet showing a list of plant specimens with columns for Interview code, Voucher spe, Latin name, Vernacular name(s), General user, Plant part, Specific uses, Use description by the informant, Mode of application, Preparation, and Comments.

ID	Interview code	Voucher spe	Latin name	Vernacular name(s)	General user	Plant part	Specific uses	Use description by the informant	Mode of application	Preparation	Comments
3819	ws00/Viar01	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	Fz	Branches	Firewood	Firewood	NA	NA	It grows in arid (mountain). It is very abundant and still ex
3822	ws00/Viar01	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	M	Leaves	Digestive	To drink with hot water to treat an	Teas	Infusions, to	It grows in arid (mountain). It is very abundant and still ex
3823	ws00/Viar01	NA	<i>Dittrichia viscosa</i>	Tir	AF	Leaves	Fodder	Starer by sheep in the summer	NA	NA	It grows by east (river). It exists in less quantities than in th
3824	ws00/Viar01	NA	<i>Dittrichia viscosa</i>	Tir	AF	Leaves	General, vnt	To treat fever, the leaves are used	External unspecified	Raw	It grows by east (river). It exists in less quantities because i
3825	ws00/Viar01	NA	<i>Juniperus oxycedrus</i>	Tiqi	AF	Leaves	Fodder	Leaves are given as they are hanc	NA	NA	It grows in arid (mountain). It is abundant but less than 20
3826	ws00/Viar01	NA	<i>Juniperus oxycedrus</i>	Tiqi	Fz	Wood	Firewood	NA	NA	NA	It grows in arid (mountain). It is abundant but less than 20
3827	ws00/Viar01	NA	<i>Marrubium vulgare</i>	Ifz	M	Stems	Skin	To treat the illness of bougher for i	Scarification	Raw	It grows in granite (fields). It is very abundant and still exist
3828	ws00/Viar01	NA	<i>Marrubium vulgare</i>	Ifz	M	Leaves	General, vnt	To treat wounds and pimples, has	External unspecified	Raw	It grows in granite (fields). It is very abundant and still exist
3829	ws00/Viar01	NA	<i>Malva sp.</i>	Tir	AF	Leaves	Fodder	Leaves are given as they are hanc	NA	NA	It grows in arid (mountain). It exists in less quantities than
3830	ws00/Viar02	NA	<i>Juniperus oxycedrus</i>	Tiqi	AF	Leaves	Fodder	Leaves are given as they are hanc	NA	NA	It grows in arid (mountain). It is not abundant but less than
3831	ws00/Viar02	NA	<i>Juniperus oxycedrus</i>	Tiqi	Fz	Wood	Firewood	NA	NA	NA	It grows in arid (mountain). It is not abundant but less than
3832	ws00/Viar02	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	IC	Stems	Toys	Used as a broom	NA	NA	It grows by east (river) and in granite (fields). It exists in less
3833	ws00/Viar02	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	AF	Leaves	Fodder	Leaves are given as they are hanc	NA	NA	It grows by east (river) and in granite (fields). It exists in less
3834	ws00/Viar02	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	IC	Branches	Toys	Woman made carpets in the past	NA	NA	This use is lost. Carpets used to be made 20 years ago.
3835	ws00/Viar02	NA	<i>Junco acutus</i>	Azmai	AF	Stems	Fodder	Stems are eaten by cows.	NA	NA	It grows by east (river). It exists in less quantities because i
3836	ws00/Viar02	NA	<i>Junco acutus</i>	Azmai	IC	Stems	Fodder	Woman made carpets in the past	NA	NA	This use is lost. Carpets used to be made 20 years ago. Tir
3837	ws00/Viar02	NA	<i>Cistus sp.</i>	Irgl	AF	Leaves/Seeds	Pasture	Goats eat leaves during pasture.	NA	NA	It grows in hot areas. It exists in less quantities than in th
3838	ws00/Viar02	NA	<i>Cistus sp.</i>	Irgl	F	Leaves	Drinks animal	To promote tea.	Teas	Infusions, to	It grows in hot areas. It exists in less quantities because it i
3839	ws00/Viar02	NA	<i>Cistus sp.</i>	Irgl	M	Leaves	Digestive	Added to hot water to treat some	Teas	Infusions, to	It grows in hot areas. It exists in less quantities because it i
3840	ws00/Viar02	NA	<i>Populus alba</i>	Shaf	CD	Branches	Houses, built	Wood is dried after being cut in w	NA	NA	It grows by east (river). It exists in less quantities because i
3841	ws00/Viar02	NA	<i>Populus alba</i>	Shaf	AF	Unspecified aerial pa	Pasture	Starer by sheep	NA	NA	It grows by east (river). It exists in less
3842	ws00/Viar02	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	IC	Stems	Toys	Woman bring it from the mountain	NA	NA	It grows in hot and dry areas. It is very
3843	ws00/Viar02	NA	<i>Dittrichia viscosa</i>	Tir	AF	Leaves	Fodder	Starer by sheep	NA	NA	It grows by east (river). It exists in less
3844	ws00/Viar02	NA	<i>Dittrichia viscosa</i>	Tir	Fz	Stems	Firewood	Firewood	NA	NA	It grows by east (river). It exists in less
3845	ws00/Viar02	NA	<i>Juniperus oxycedrus</i>	Tiqi	AF	Leaves	Fodder	Starer by sheep and goats	NA	NA	It grows in arid (mountain). It exists
3846	ws00/Viar02	NA	<i>Populus alba</i>	Shaf	CD	Branches	Houses, built	Wood is dried during one to two m	NA	NA	It grows by east (river) and in granite p
3847	ws00/Viar02	NA	<i>Cistus sp.</i>	Irgl	M	Leaves	Digestive	Drunk with hot water to treat ear	Teas	Infusions, to	It grows in arid (mountain). It is very
3848	ws00/Viar04	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	IC	Stems	Toys	Used as a broom	NA	NA	It grows in granite (fields). It is very ab
3849	ws00/Viar04	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	AF	Leaves	Fodder	Leaves are given as they are hanc	Oral ingestion	Raw	It grows in granite (fields). It is very ab
3850	ws00/Viar04	NA	<i>Cladanthus scarlosus</i>	Ifski n warras	Fz	Stems	Firewood	Firewood	NA	NA	It grows in granite (fields). It is very ab
3851	ws00/Viar04	NA	<i>Rosmarinus officinalis</i>	Azir	Fz	Wood	Houses, built	Wood is dried and used to build an	NA	NA	It grows by east (river). It exists in the



2	<i>Mentha gottfossesi</i>	Tafleyout
3	<i>Cladanthus scarlosus</i>	Ifski n warras
4	<i>Lavandula dentata</i>	Timzurri
5	<i>Foeniculum vulgare</i>	Wamsa
6	<i>Dittrichia viscosa</i>	Tir
7	<i>Juniperus oxycedrus</i>	Tiqi
8	<i>Tamarix gallica</i>	Amash
9	<i>Salvia sp. (Salvia officinalis, S. lavandulifolia, S. oucheri)</i>	Salmia and salmia noudrar
10	<i>Populus alba</i>	Sfsaf
11	<i>Populus nigra</i>	Arg
12	<i>Olea europaea</i>	Zeet
13	<i>Junco acutus</i>	Azmai
14	<i>Marrubium vulgare</i>	Ifzi
15	<i>Punica granatum</i>	Rman
16	<i>Rubus ulmifolius</i>	Ashdir
17	<i>Malva sp.</i>	Tibi
18	<i>Silene vulgaris</i>	Taghighasht
19	<i>Pulicaria mauritanica</i>	Ijja omghar
20	<i>Cistus sp. (Cistus monspeliensis, C. salvifolius, C. creticus)</i>	Irgl
21	<i>Rosmarinus officinalis</i>	Azir
22		

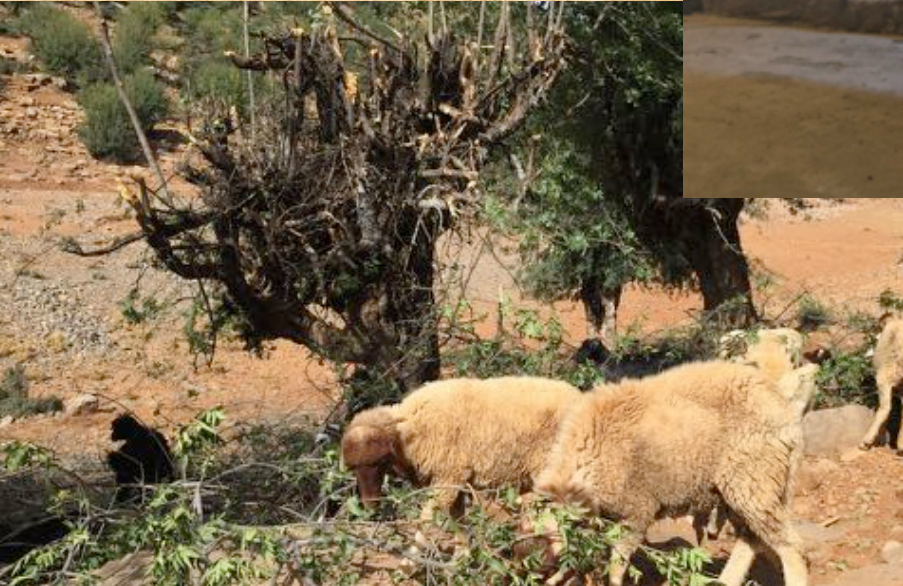
✓ List of concrete plants

✓ Voucher specimen



- ✓ 212 species
- ✓ 66 botanical families
- ✓ 4000 use reports





Medicine
Food
Fodder
Industry and craft
Construction





✓ Transmission of knowledge

✓ Collaboration with communities









✓ *Capacity building*

✓ *Dissemination*





Biocultural fairs







†.|CΞO† ξ†∞∧.|.....

شكرا جزيلا

Thank you