

# TREASURES BLOOMING

### **IN JAJ CEDARS NATURE RESERVE**







Jaj Cedars Nature Reserve is home to more than 466 plant species including 49 trees species.

A total number of 61 plant families are represented including 240 genera.

\*Endemism is related to geographical distribution. Some of these plants are confined to the Eastern Mediterranean countries e.g. Endemic to Lebanon, Syria, Turkey, Palestine, etc. while others are strict endemic to Lebanon.

## Among the 466 plant species present in the reserve:

- 12 species are strictly endemic to Lebanon
- **11** species are endemic to Lebanon, Syria and Palestine
- 26 species are endemic to Lebanon and Syria
- 5 species are endemic to Lebanon and Turkey
- **175** plant species are endemic to the eastern Mediterranean region.

In this booklet, 28 of the most common and endemic plant species are selected and classified by family, following an alphabetical order.

• APIACEAE p.3	<b>FABACEAE</b> p.19
• ASPARAGACEAE p.5	GERANIACEAE p.21
• ASTERACEAE p.7	• HYPERICACEAE p.22
<b>BERBERIDACEAE</b> p.8	• LAMIACEAE p.23
<b>BORAGINACEAE</b> p.9	<b>RANUNCULACEAE</b> p.25
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• CARYOPHYLLACEAE p.14	• RUBIACEAE p.28
CRASSULACEAE p.18	• XANTHORRHOEACEAE p.30

## Prangos asperula

**Rough prangos** Prangos rude درش الضبه

With its very impressive yellow flowering, this species enlightens the mountainous slopes of Mount Lebanon and Anti-Lebanon during the month of June.

DISTRIBUTION

- Syria - Lebanor





## Smyrniopsis syriaca

**Syrian smyrniopsis** Smyrniopsis de Syrie سمرنيوبسيس سوري

This species is present in woodlands on rocky soils, its native range is Syria to Lebanon, Jordan; endemic to Lebanon and Syria.

#### DISTRIBUTION

- Lebanon
- Syria
- Jordan



## Hyacinthus orientalis

**Oriental hyacinth** Jacinthe d'orient خزام شرقی

This species is the ancestor of all the ornamental hyacinths found all around the world. In the Greek mythology, Hya-kinthos was a young man loved by two gods, Apollo and Zephyr. Due to jealousy, he was killed by Zephyr but Apollo turned him into a flower to make him eternal.

### DISTRIBUTION

- Greece
- Turkey
- Syria
- Lebano
- Palestine
- Irak



## Scilla cilicica

**Cilician squill** Scille de cilice اشقیل قیلیقیا

The species of the genus Scilla are bulbous plant and the name comes from the Greek "skilla" which means sea onion. This ephemeral species emerges and flowers just after the thaw especially in woodlands and grasslands above 1500 meters.

### DISTRIBUTION

- Turkey
- Syric
- Lebanon
- Palestine
- Cyprus



# FLOWERING PERIOD

## Achillea falcata

**Falcate milfoil** Achillée falciforme قيسون

The name refers to Achilles, hero of the Troy war. According to the mythology, he used this plant to heal his wounds.

### DISTRIBUTION

- Turkey
- Syria
- Lebanon
- Palestine
- Joraan



### FLOWERING PERIOD

1 2 3 4 5 6 7 8 9 10 11 12

## Berberis libanotica

**Lebanon barberry** Berberis du Liban بربریس لبنانی

A promising candidate for the treatment of Alzheimer's disease. This mountainous shrub is found between 1400 and 2000 meters. The flowers of *Berberis* have a mechanical movement that is stimulated by the visit of insects. When an insect touches the base of a stamen, the latter moves inward and projects its pollen on the insect. This allows cross pollination.



DISTRIBUTION

- Syria - Lebanor



FLOWERING PERIOD

## Brunnera orientalis

**Oriental brunnera** Brunnéra d'orient برنيرة شرقية

This mountainous species is founds in fresh and shady places between 1500 and 2500 m.

1 2 3 4 5 6 7 8 9 10 11 12

**FLOWERING PERIOD** 

### DISTRIBUTION

- North-East

- Mediterranean
- Western Asia



## Aethionema coridifolium

**Lebanon candy-tuft** Aethionème du Liban قرصية الورق

This genus is characterized by strange stamens. From Greek aêthês = unusual, and nêma = filament. The filaments of the stamens are toothed or winged. This species is only found between 1500 and 2000 meters on rocky or sandy soil.

### DISTRIBUTION

- Turk
  - Syria
- Lebanon



## Arabis caucasica

Caucasian rock cress Arabette du Caucase اربیس قفقاسی

Carl Von Linne named the genus *Arabis* from the Greek "arabis" which refers to the Arab Peninsula. Indeed many species of this genus have the ability to grow in rocky or sandy soil. This mountainous species can be found only between 1500 and 2500 meters, in fresh and shady places and is one on the first species to flower after the thaw.



#### DISTRIBUTION

- North-East
- Mediterranean
- Caucasus



## Aubrieta libanotica

**Lebanon aubrieta** Aubriète du Liban اوبریتیة لبنان

The genus is named after Claude Aubriet (1665–1742), a French flower-painter, friend of the botanist Tournefort, *Aubrieta* grows in crevices on rocky cliffs. It is mostly found on fresh North oriented cliffs in the mountainous regions between 500 and 2500 meters.



### DISTRIBUTION

- Turke
- Svria
- Lebanon



## Hesperis kotschyana

**Kotschy's dame's violet** Julienne de Kotschy منثوریة کتشپ

This species is not very common and it is limited to rocky shrublands and woodlands. The name *Hesperis* means evening in Greek and refers to the fact that this genus is characterized by flowers that produce a nocturnal scent to attract night moths.

### DISTRIBUTION

- Northeastern
- Mediterranean
- Western Asia

# FLOWERING PERIOD



13 \*Hesperis bicuspidata is a synonym of Hesperis kotschyana

## Arenaria deflexa

**Deflexed sandwort** Sabline recourbée زهرة رمال الصخور

Plants of this genus are sand dwellers. However, this species is found in crevices on rocky cliffs. It is mostly found on fresh North oriented cliffs in the mountainous regions between 500 and 2500 meters.

1 2 3 4 5 6 7 8 9 10 11 12

FLOWERING PERIOD

#### DISTRIBUTION

- Greece
- Lurkey
- Syria
- Lebanon
- Palestine



## Dianthus orientalis

Short-toothed oriental pink Oeillet d'orient à dents courtes قرنغل شرقي قصير الاسنان

Species of the genus *Dianthus* are very popular as they are used as ornamental plants in gardens. The name *Dianthus* stands for God's flowers in Greek ("dios" "anthos").

### DISTRIBUTION

- Caucasus
- Western and
  - Central Asia



## Gypsophila mollis

**Soft gypsophila** Gypsophile molle زَقَيْقَةَ لَيْنَة

The plants of this genus were named after their ecology: they mostly develop on chalky soils. "Gypso" means chalk and "philos" means to love in Greek.

DISTRIBUTION

- Syriα - Lebanor

# FLOWERING PERIOD



16 \*Bolanthus hirsutus is a synonym of Gypsophila mollis

## Silene astartes

Astarte's catchfly Silène d'Ishtar سيلان عشتروت

This species lives on shady rocks. This plant is native to Syria and is endemic to Lebanon and Syria.

**FLOWERING PERIOD** 

### DISTRIBUTION



## Rosularia libanotica

**Lebanon rosularia** Rosulaire du Liban وردية لبنان

The species of the genus Rosularia grow on almost bare rocks and can resist very harsh environmental conditions like drought. The leaves are fleshy to stock water and are said to be succulent.

### DISTRIBUTION

- Northeastern
- Mediterranean
- Western Asia



## Astragalus gummifer

**Gum dragon** Gomme adragante کثیراء کبیبج

Astragalus gummifer is supposed to produce a gum used in toothpastes and hair products. In reality this species doesn't produce any gum! This is a characteristic of other species belonging Astragalus genus with its 3000 species. The species misidentification is very common in this genus. Astragalus gummifer is a thorny shrub that dominates in over grazed mountains.



### DISTRIBUTION

- Turkey
  - Svric
  - Lebanor
  - Armenia



## Colutea cilicica

**Cilician bladder-senna** Baguenaudier de Cilicie سنا قيليقية

The fruiting branches of *Colutea cilicica*, along with leaves and fruits, have been used to heal inflammatory wounds at traditional medicine in various parts of Turkey. The species of the genus *Colutea* are characterized by very inflated and membranous pods. Very localized in Lebanon, it exists only between 1500 and 2000 m.



### DISTRIBUTION

- Turkey
- Syric
- Lebanon
- Palestine



## Geranium libani

**Lebanon geranium** Géranium du Liban غرنوقي لبنان

Elegant shiny fingered marbled leaves with blue flowers in April and May. Summer dormant, then fresh leaves from autumn. Likes a sunny well-drained or dry site. Not to be confused with *Geranium libanoticum* which is another species endemic only to Mount Lebanon. The name *Geranium* comes from the Greek "geranos", which means crane and refers to the resemblance between the bird's beak and the fruits of these plants.



### DISTRIBUTION

- Turkey
- Svric
- Lebanor
- Palestine



## Hypericum nanum var. prostratum

Dwarf St John's-wort Millepertruis nain داذی قزم

This species is present on Eastern Mediterranean Region.

1 2 3 4 5 6 7 8 9 10 11 12

**FLOWERING PERIOD** 

#### DISTRIBUTION

-Palestine



## Marrubium radiatum

**Rayed white-horehound** Marrube rayonnant فراسیون مشع

The species of the *Marrubium* genus are medicinal plants widely used since antiquity as an expectorant.

### DISTRIBUTION

- Northeastern

- Mediterranean
- Western Asıa

### FLOWERING PERIOD 1 2 3 4 5 6 7 8 9 10 11 12



23 \*Marrubium cuneatum is a synonym of Marrubium radiatum

## Scutellaria brevibracteata

**Short bracteate skullcap** Scutellaire à bractées courtes هربون بنفسجي

The name of the *Scutellaria* genus comes from the Latin word "scutella" meaning a dish. It refers to the dish-like calyx of the flowers.

This species is polymorphic, which means that individuals have different shapes, making believe that many different species exist.

#### DISTRIBUTION

- Turkey
- Syria
- Lebanon
- Palestine
- Jordan



## Paeonia mascula

**Male peony** Pivoine mâle ودح مرجاني

These species were named after Paeon, one of the Greek gods of medicine, as it was anciently used as a medicinal plant. This fragile species is becoming rare due to overcollection from the wild for ornamental purpose.

#### DISTRIBUTION

- Europe
- Northern
- and Eastern
- Mediterranean
- Caucasus



# FLOWERING PERIOD

## Potentilla libanotica

**Lebanon cinquefoil** Potentille du Liban סַבּּפַנֵּהַ עִוּטוֹט

This species is endemic to Mount Lebanon and has a very limited distribution. It grows in crevices on rocky slopes between 1500 and 2000 meters.

1 2 3 4 5 6 7 8 9 10 11 12

**FLOWERING PERIOD** 

DISTRIBUTION

- Lebanon



## Prunus ursina

**Bear Plum** Prunier des ours خوخ الدب

The elders tell that the plums produced by this tree were one of the favourite foods of bears. This species is among the ancestors of the domesticated plums.

#### DISTRIBUTION

- Turke
- Syriα
- Lebanon



## Asperula libanotica

**Lebanon woodruff** Aspérule du Liban أسبرولة لبنان

This rare endemic species of Mount Lebanon grows on shady rocks especially in woodlands. However it was recently discovered in Galilee.

### DISTRIBUTION

- Lebanon

- Palestine



### FLOWERING PERIOD 1 2 3 4 5 6 7 8 9 10 11 12

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## Rubia aucheri

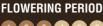
**Aucher's madder** Garance d'Aucher فوة اوشيه

This species was named in the memory of the French botanist Pierre Martin Remi Aucher-Eloy (1838-1792). The roots of this species were anciently used as dyestuff as it contains a red pigment, the alizarin. The name of the genus *Rubia* comes for the Latin "ruber" which means red.



#### DISTRIBUTION

- Turk
  - Syria
  - Lebanon



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### 1 2 3 4 5 6 7 8 9 10 11 12



\*Rubia rotundifolia is a synonym of Rubia aucheri

## Eremurus spectabilis

**Foxtail lily** Erémure remarquable ذنب ثعلب رائع

The species of the *Eremurus* genus grow on rocky and dry slopes. The name stands for solitary ("eremos") tail ("oura") in Greek. *Eremurus spectabilis* is used as a wild edible vegetable in Anatolia, in Turkey.

1 2 3 4 5 6 7 8 9 10 11 12

FLOWERING PERIOD

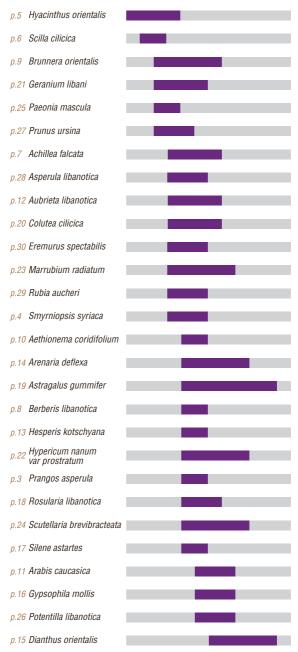
#### DISTRIBUTION

- Northeastern
- Mediterranean
- Caucasus



### FLOWERING PERIOD

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### PHOTOGRAPHY CREDIT ©

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