

### Moreton Bay fig Australian banyan (Ficus macrophylla)

Native from Australia, this fig tree can germinate on host trees, strangling them as their aerial roots grow and settle on the ground, forming secondary trunks that surround the thick, compact trunk. The tree is very water demanding, has a high growth rate and can reach over 60 m in height. The leaves are large, thick, bright dark green. Like any fig tree, it establishes obligatory mutualism with a species of wasp that ensures pollination, and there is no production of fertile figs in



# Museum Main Building

other cultural initiatives.

Former Riding Hall

The former Riding Hall was built to support

teaching of fencing and horse riding in the

Royal College of the Nobles (1759-1837). It is

the only 18th century building in the Museum

and its magnificent wooden ceiling is listed as

building had multiple uses through time and

is presently used for exhibitions, concerts and

(Bus and tram stop: Rua da Escola Politécnica)

campus. Construction was initiated in 1763

a public interest building since 1978. The

The Lisbon Botanic Garden (JBL) was projected in the mid-19th century to support botany teaching and research at the Lisbon Polytechnic School (1837-1911). However, plant cultivation in this location for study and useful purposes dates at least to the Jesuit college of Cotovia (1609-1759) and the Royal College of the lobles (1761-1837). Today, the Garden is part of the National Museum of Natural History and Science of the University of Lisbon.

(Subway stop: Largo do Rato)

Notable Species

1 - Moreton Bay fig

(Ficus macrophy

- Southern magnolia

(Magnolia grandiflora)

4 — Forest gardenia (Gardenia thunbergia)

5 - Osage orange (Maclura pomifera

3 — Photinia (Photinia nussia)

6 - Chinese rice-paper plant

(Tetrapanax papyrifer)

8 — Deodar cedar (Cedrus deodara)

9 — Giant white bird of paradise

11 — Kapok tree (Ceiba crispiflora)

12 - Bald cypress (Taxodium distichur

13 — Bunya pine (Argucaria bidwillii)

10 — Tipu, Yellow jacaranda

(Tipuana tipu)

14 - São-Tomé pine

(Afrocarpus mannii)

(Harpephyllum caffrum)

(Crysophyllum imperiale)

(Araucaria columnaris

22 — Montezuma bald cypress

(Erythring lysistemon

(Seguoia sempervirens)

27 — Dragon tree (Dracaena draco)

features of the Arboretum.

26 - Camphor tree (Cinnamomum camphora)

The arboretum of a botanic garden comprises trees and

bushes. This Arboretum was designed by Jules Daveau in

result in a tropical and sub-tropical landscape. In 1892,

Henri Cayeux introduced ornamental plants. Among the

highlights are the gymnosperms collections, particularly

The middle and lower ponds and the alley of palm trees

providing access to the Rua da Alegria gate are important

cycadophytes, and the tropical palms and fig trees collections.

1876. Its large trees from several regions across the globe

exts - MUHNA

Farinha (NF); Pedro Salgado (PS); Rita Cortés de Matos (RM); Simon

Map — Nuno Farinha

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17 — Dombeya (Dombeya x cayeuxil)

15 — European fan palm 16 - Wild plum

18 - Persian ironwood

19 - Royal tree

(Parrotia persica)

20 - Yew (Taxus baccata)

21 - Coral reef araucaria

23 - Coast coral tree

24 - Coast redwood

25 - Swiss cheese plant

7 — Ginkgo (Ginkgo biloba)

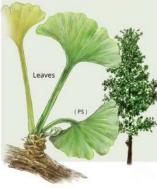


# (Magnolia grandiflora)

The southern magnolia is a species with evergreen leafs, native from southeastern United States, widely cultivated in gardens and parks. Large tree with dense crown and bright and thick leaves, it produces large, very aromatic white flowers. about 25 cm in diameter. The fruits are arranged in a pine cone-like structure, and the seeds, red in color, hang by thin strands when ripe and are dispersed by birds and mammals. Some of the oldest fossils have flowers similar to those of the southern magnolia.

### Ginkgo, Maidenhair tree (Ginkgo biloba)

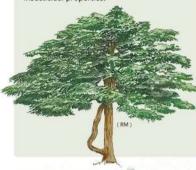
Ginkgo is considered a very resistant species, a living fossil (270 Ma), the sole representative of its order. The natural distribution is restricted to south-eastern China, being cultivated as ornamental and used medicinally due to vasodilator properties. Deciduous tree, with fan-shaped leaves with two lobes and dichotomous veins. known by their golden tone in the autumn. It is a dioecious species (male and female separated into different individuals) and females produce yellowish and globose seeds with intense scent of rancid butter to attract small mammalian dispersers



# Deodar cedar, Himalayan cedar

(Cedrus deodara)

Deodar cedar belongs to the cypress group and is native to the western Himalayan region. The trunk is straight, can reach up to 3 m in diameter and the branches are open. almost horizontal. Needle-shaped leaves are isually grouped into short lateral branches. The male and female cones are on the same individual. Currently grown as ornamental in gardens and parks, it is also a source of medicinal products and has been used as an anti-inflammatory and analgesic. The oil has insecticidal properties.





### Cycadophytes and Encephalartos sp.

Encephalartos is an African genus belonging to the group of Cycadophytes, a group of living fossils (290 Ma) including species vulnerable or endangered, with distribution confined to some restricted areas of tropical and subtropical regions. They are dioecious plants (male and female separated into different individuals) and the reproductive structures are similar to cones or pine cones. Most species of this group are extinct and some species only exist in botanical gardens. IBL has an important and diverse collection of Cycadophytes.

Two professors of the Lisbon Polytechnic School, Count of Ficalho and Andrade Corvo, promoted the planting of the Garden in 1873. The upper section is called the Classe (Class, in English). In the 19th century, under the supervision of chief-gardener Edmund Goeze, plants were organized systematically. In the 1940s, after the construction of the Herbarium building (project by architect Adelino Nunes), plants were re-organized ecologically, around a central pond, the upper lake

The meteorological station was created in 1853. It provides the longest continuous neteorological data series of Portugal. The station is part of the D. Luiz Institute, Faculty of Sciences, University of Lisbon and it integrates the national network of meteorological stations, managed by IPMA - Instituto Português do Mar e da Atmosfera.

### Statues

The busts of Bernardino António Gomes, father and son with a shared name, are respectively on the monumental stairs, made with traditional Portuguese-style calçada, and in the Classe. The ormer studied the quinine, a South American plant, and played a role in the identification and isolation of the active ingredient against malaria

(Cinnamomum camphora)

Lisbon Botanic Garden

# Coral reef araucaria, Cook pine

An endemic araucaria of New Caledonia, was described by the botanists who accompanied Captain James Cook on his second voyage. Very cultivated as ornamental, it has a columnar habit due to the numerous short branches surrounded by twigs that resemble cords, covered by overlapping scaly leaves. Male and female cones on the same tree, the male cones cylindrical (5 cm), at the tips of the branches, the female cones most obular, up to 15 cm in diameter. JBL has a collection of araucaria, considered primitive plants. including several



### Yew, English yew (Taxus baccate

Native to almost all of Europe, America. North Africa, Asia and Australia, the yew occurs in the northern mountains of Portugal, but with protected status due to habitat destruction. A shrub or tree, it can reach 15 m in height. With dark green foliage, it is dioecious (sexes separated into different individuals) and the seed is surrounded by a fleshy red structure (aryl), the only edible portion since the plant is extremely toxic. Taxol is extracted from yew, a drug used in the fight against cancer, chemically synthesized today. The wood is



### Persian ironwood (Parrotia persica)

The Persian ironwood is a deciduous tree, native to forests in the South of the Caspian Sea, Iran and Azerbaijan, An ornamental species, its trunk is covered by a smooth. pink-brown bark. The leaves, with wavy edges, are green, bright and turn red in the autumn, giving it a unique beauty. The flowers are small and red, without petals. The wood is very hard to work. It was discovered by a German naturalist, F.W. Parrot, on Mount Ararat, while searching for traces of Noah's Ark.

### regions for camphor and wood production. Camphor is obtained from steam distillation of the chipped wood and is used medicinally, as a component of

and Vietnam but grown in many tropical incense, as a spice and as an insect repellent. The remains of dried and crushed leaves and branches attest to the smell of camphor

Camphor tree, Camphorwood

The Camphor tree belongs to the laurel

family, rich in essential oils. Native to

China, Taiwan, southern Japan, Korea



### **Bald cypress**

(Taxodium distichum)

Bald cypress is a deciduous tree. native to the warm temperate marshlands in southeastern North America. It can reach 40 m in height and the trunk 2 m in diameter

Male and female cones grow in the same individual. The main trunk is surrounded by cypress knees (pneumatophores), roots that emerge from others in the ground to easily access oxygen, which is lacking in the flooded soils. The wood is of high quality however the tree is mostly used as

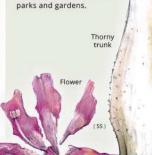


### Kapok tree (Ceiba crispiflora)

Deciduous species that can exceed 20 m in height, native to Central and South America. The common name is derived from the presence of 'paina' or kapok (silky strands that surround the seeds), used to fill cushions. The shape of the trunk is enlarged in

the lower part, where water is stored to tolerate periods of drought. Conical spines cover the trunk as a strategy to prevent animals from accessing the

Pink flowers appear in the fall before the leaves. It is a species very cultivated in



- E Astronomical Observatory
- F Weather Station (IDL)
- G Education Gallery 'Palmário': H Middle Lak
- I Bryophytes and Lichens; I Amphitheatre
- P Cycads Collection; Q Monocotyledons Collection

## Collections and Garden Sites

- A Fig trees collection
- B Training room: C Botany building D - Upper Lake; Aquatic Collection

- L Araucaria Collection; M Lower Lake
- N Birds: 0 Palm trees Collection
- R Xerophytes Collection; S Sensory Garden
- T Insect House



