

# NATIONAL BOTANIC GARDENS, GLASNEVIN

## CURVILINEAR RANGE (THE GYMNOSPERMS) [CL(C)]

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Dúchas The Heritage Service

**GYMNOSPERMS** is a Greek word meaning 'Naked Seeds'. Gymnosperms are seed plants, but have no flower. The seeds are termed naked because they are not contained in a carpel. The male and female organs are contained on separate cones, and Conifers (lit. 'Cone bearing') is a term that can also be applied to these plants.

Gymnosperms are all woody plants, and many (such as the Cycads, giant redwoods and Ginkgo) are very ancient. Glasnevin has a considerable collection of Cycads of which many are severely endangered in the wild. Cycad plants are either male or female, and the single large cone is produced only once the plant is many years old. Members of the Podocarpaceae [#12, #13, #17, #19] have fleshy fruits at the base of the seed, giving them their name *Podo* (foot) *-carp* (fruit).

- 1 *Zamia pygmaea* (ZAMIACEAE) 1997.1243
- 2 *Platycladus orientalis* (PINACEAE)
- 3 *Cycas revoluta* (CYCADACEAE) 1975.0586
- 4 *Cycas revoluta* (CYCADACEAE) 1997.1241
- 5 *Cycas revoluta* (CYCADACEAE) 1987.0019
- 6 *Lepidozamia peroffskyana* (ZAMIACEAE) 1997.0762  
[photo right: male cone]
- 7 *Callitris oblonga* (CUPRESSACEAE)
- 8 *Callitris oblonga* (CUPRESSACEAE)
- 9 *Cycas media* (CYCADACEAE) 1997.0764
- 10 *Araucaria excelsa* (ARAUCARIACEAE) 1996.0676
- 11 *Ceratozamia mexicana* (ZAMIACEAE) 1997.0753
- 12 *Saxegothaea conspicua* (PODOCARPACEAE) 1994.1016A
- 13 *Saxegothaea conspicua* (PODOCARPACEAE) 1994.1016B
- 14 *Cupressus cashmiriana* (CUPRESSACEAE) 1996.0740
- 15 *Cycas revoluta* (CYCADACEAE) 1975.1122
- 16 *Encephalartos natalensis* (ZAMIACEAE) 1981.1716
- 17 *Afrocarpus gracilior* (PODOCARPACEAE) 1994.1063
- 18 *Dioon spinulosum* (ZAMIACEAE) 1997.0756

- 19 *Podocarpus latifolius* (PODOCARPACEAE) XX.009060
- 20 *Araucaria cunninghamii* (ARAUCARIACEAE)



On the benches surrounding the house[A], other smaller Gymnosperms can be seen:

- Araucaria heterophylla* (ARAUCARIACEAE) 1999.2157
- Callitris columellaris* (CUPRESSACEAE) 1999.2154
- Ceratozamia mexicana* (ZAMIACEAE) 1997.0752
- Dioon spinulosum* (ZAMIACEAE) 1997.0757
- Encephalartos lebomboensis* (ZAMIACEAE) 1997.0759
- Encephalartos lebomboensis* (ZAMIACEAE) 1997.0758
- Encephalartos lehmanii* (ZAMIACEAE) 1903.000899
- Encephalartos lehmanii* var. *dentatus* (ZAMIACEAE) XX.013352A
- Encephalartos trispinosus* (ZAMIACEAE) 1981.1718

