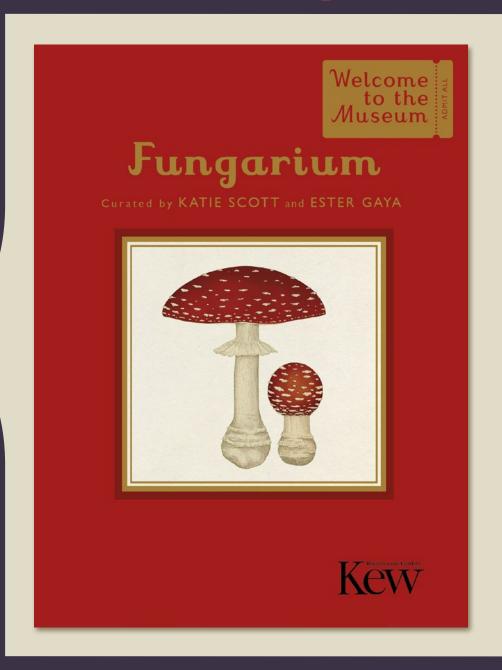
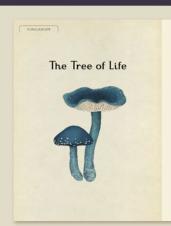
Fungarium (Mini Gift Edition)



An elegant mini edition of Katie Scott and the Royal Botanic Gardens Kew's beautiful *Fungarium*.

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Fungarium (Mini Gift Edition)



All species on Earth are related and connect together in a 'tree of life'. But what does the fungal tree of life look like?

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FUNGAL BIOLOGY

Sexual Reproduction

Fungi can reproduce both sexually and asexually. This is rare and caused great confusion in the past because each reproductive form would often be classed as a distinct species. Even today, scientists sometimes use DNA to identify reproductive 'pairs' of the same fungus.

Sexual reproduction in fungi can only be seen with a microscope. Two nuclei (the membrane-bound structures that contain the cell's genetic material), each with a single set of chromosomes (thread-like structures in which the DNA is packaged in the nucleus), must fuse together. It is a complex process that involves cell division and the exchange and rearrangement of genes. Living organisms including fungi do this because it ensures genetic diversity, fundamental to evolution and ultimately survival. The fusing nuclei can be from the same individual, or different ones of the same species. Once nuclei are fused, they remain in special cells from which new sporeproducing structures arise. The new spores will form new fungal colonies.

- Key to plate -

1: Common field mushroom

Agaricus campestris a) Development of a mushroom b) Part of a gill showing basidia and basidiospores.

2: Common jellyspot fungus

Fork-shaped, branched basidia.

3: Common rust fungus Phraemidium violaceun

The stalked spore includes a row of four cells with two nuclei each.

4: Zygorhynchus sp.

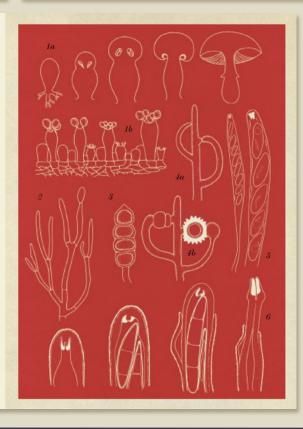
a) The process of hyphae forming a zygosporangium b) Zygosporangium and zygospore

5: Candlestick or candle snuff fungus

Xylaria hypoxylon As in most ascomycetes, the asci contains eight spores.

6: Dog lichen

Produces asci with a special form



What is a Fungus?

10: Lane Cove waxcap

5: Veiled lady

Pub Date	03/08/2023
Pub Price	£9.99
ISBN	9781800784239
H×W	170 × 125mm
Binding	Hardback
Age Range	7-9 years
Author	Ester Gaya
Illustrator	Katie Scott
Extent	64рр
Word Count	9457 words
Rights Available	World

Types of Fungi

8: Upright coral