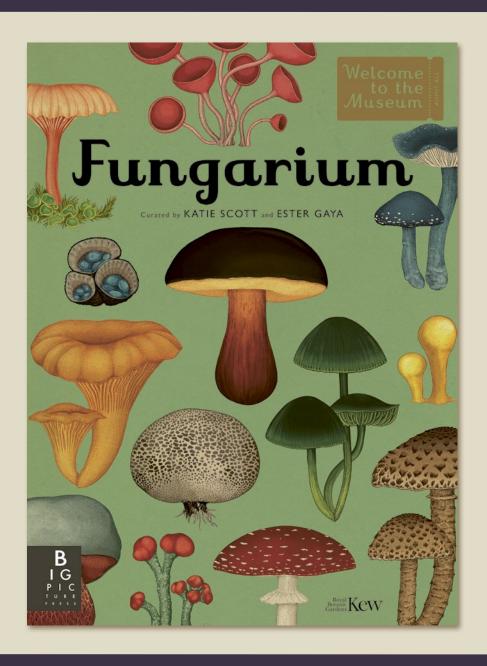
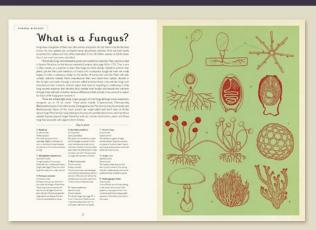
Fungarium



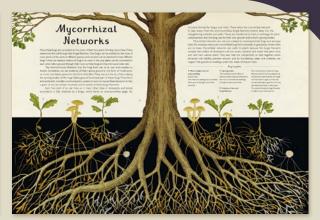
Step into the world of fungi and learn all about these strange and fascinating life forms.

- The core Welcome to the Museum books have sold a combined quantity of over 1 million copies worldwide (as of July 2022)
- Katie Scott, the illustrator of Animalium and Botanicum returns to Big Picture Press with a spectacular exploration of the world of fungi
- The Royal Botanic Gardens, Kew completed their report into the State of the World's Fungi in September 2018, gaining much media interest. Fungi is a topic that is becoming more popular.
- Written by the mycology department at the Royal Botanic Gardens Kew.
- This is the perfect introduction into one of the most unusual life forms on the planet. Title has adult crossover appeal.

Fungarium







FUNGI AND HUMANS

Plant Pathogens

Although most fungl perform helpful roles in recycling nutrients in ecosystems, some have adopted a different Blestyle that is harmful to the plants they interact with Fungl that attack plants (fungle plant pathegens), are a respiration of one of one general, causing large financial costs in agriculture and even transming the supply of food to our tables. The price way py for common food terms in the shops is dependent on our success in our ongoing struggle with these fungi.It is estimated that 8-21 per cent of the six major food crops are lost to fungal pathogens and a further 10 per cent is lost after the crops

tood crops are one to use purego and a second of the control of th whiteir obserptions or uningar rost energies in the sevenice for content of a connection between the presence of Barberry plants growing on the margins of wheat fields and the levels of stem rust damage to wheat. This proved to be a valuable insight as barberry is now known to act as a host for the wheat stem rust Pucchia. graminis. Digging up and destroying the barberry plants turned out to be an effective way of controlling the rust disease.

Fungi adopt three broad strategies to infecting plants. They can infect plants and live off their nutrients while keeping the plants alive (biotrophs), they can kill plants outright and digest the dead plant matter (necrotrophs) or they can start out as biotrophs but then switch to a n the leaf looking for the stomatal pore use a hardened h fungal pathogens pathogens may r pathogens keep the infection.

ohae (page 1 for a way in : es which allo hyphal tip to interfere wit release toxin	6) emerge from the spore ar Some fungi such as the rusts of sow water in and out of a plan push through the leaf surface th the plant's ability to defend it is to kill plant cells and then	is when a fungal spore lunds on its dispread across the surface of search out a natural opening—it's leaves, for example. Others . Once they have gained entry, uself for example, necrotrophic digest them. Biotrophic fungal eplant which is trying to stop
	Key to plate	
	8: Witcher' broom disease Monliophthers permitted	3: Dark honey fungus Amilloria ostayan
d stem not mick sheart Asia. The	This pathogen infects cocca trees, causing reduction in yield of up	Some honey fungi are major
y brackets on	to 90 per cent, it is also resistant.	pethogens of trees and shrubs, forming black strands (dispomorphs)
tree.	to fungicides.	which spread through the soil and split the bark from the wood. One
	4: Rice blist disease	colony of Armillona gallos forms the
	Pyriculona oryane	humangous fungus' occupying 70
gressive cause	This infects rice plants, causing	hectares of forest in Michigan State
t is spread by a	brownsh leaons to appear on the	(United States). It is believed to be
galleries inside	leaves. It destroys enough rice a year to feed 60 million people.	the largest organism on Earth.
	50	



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