


生物策略表

類別	生物策略 Strategy
生物策略 STRATEGY	偽裝減少被草食動物取食 (Camouflage reduces herbivory)
生物系統 LIVING SYSTEM	番杏科植物 Aizoaceae (Iceplants)
功能類別 FUNCTIONS	#改變位置 #改變大小/形狀/質量/體積 #保護免受動物危害 #Modify position #Modify size/shape/mass/volume #Protect from animals
作用機制標題	生石花扁平、圓形的葉子和地下生長模式可以作為偽裝，保護它們不被草食動物取食 (The flat, rounded leaves and underground growth of pebble plants may protect them from herbivory by serving as camouflage.)
生物系統/作用機制示意圖	
作用機制摘要說明 (SUMMARY OF FUNCTIONING MECHANISMS)	
文獻引用 (REFERENCES)	
<p>「生石花 (pebble plant) 生長在同一沙漠 (納米比沙漠) 中石頭較多的地方。它們藉由部分埋於地下的生長方式生存。它們的葉子已經減小到只有一對，呈肥厚、圓形且肉質；兩片葉子間僅存一個凹槽，在適合的季節會由此萌生出一朵驚人的巨大花朵。這種圓形的形狀，在固定體積下有非常小的表面積，可將水蒸發量減至最低，也因此在高溫環境下對植物保存水分有很大的幫助。但如前面提到的，這可能會帶來額外的好處。在開花季節之外，這種植物很難在礫石跟鵝卵石堆中被找到，因此其外形還可以用來防止被草食動物取食，如駝鳥、陸龜、豪豬，或許還包含一些沙鼠。」 (Attenborough 1995: 265)</p> <p>“Pebble plants grow in the stonier patches of the same [Namib] Desert. They survive by living partly underground. Their leaves have been reduced to a single pair, fat, round and succulent, with just a groove between them from which, in the right season, will sprout a surprisingly large flower. Such a rounded shape, with a very low surface area for a given volume, reduces evaporation to a minimum and is therefore a great help to the plant in conserving its water in the intense heat. But as has been noted earlier it may bring an additional benefit. Outside the flowering season, the plant is very difficult to find among the gravel and pebbles, so its shape could also serve as a defense</p>	

against detection by grazing animals — ostriches and tortoises, porcupines and perhaps a few gerbils.” (Attenborough 1995: 265)

參考文獻清單與連結 (REFERENCE LIST)

Attenborough, D. (1995). *The private life of plants*. BBC Books.

延伸閱讀

生物系統延伸資訊連結 (LEARN MORE ABOUT THE LIVING SYSTEM/S)

<https://en.wikipedia.org/wiki/Aizoaceae>

<https://www.onezoom.org/life/@Aizoaceae=367508#x618,y96,w0.7818>

<https://eol.org/pages/4225>

撰寫/翻譯/編修者與日期

王鈺甯翻譯 (2020/04/20)；譚國鎔編修 (2020/06/02)；許秋容編修 (2020/06/23)

AskNature 原文連結

<https://asknature.org/strategy/camouflage-reduces-herbivory/>