

# 生物策略表

類別	生物策略 (Strategy)
生物策略 STRATEGY	生物聚合物停止殼的生長 (Biopolymer stops shell growth)
生物系統 LIVING SYSTEM	牡蠣 Ostreidae (True oysters)
功能類別 FUNCTIONS	#改變大小/形狀/質量/體積 #化學性組成有機化合物 #調節生殖或生長 #Modify size/shape/mass/volume #Chemically assemble organic compounds #Regulate reproduction or growth
作用機制標題	聚天門冬胺酸鹽是牡蠣中的生物聚合物，可通過抑制過量碳酸鈣的生成來停止貝殼的生長 (Polyaspartate is a biopolymer in oysters that stops growth of shells by inhibiting growth of excess calcium carbonate.)
生物系統/作用機制示意圖	
作用機制摘要說明 (SUMMARY OF FUNCTIONING MECHANISMS)	
<p>聚天門冬胺酸鹽 (polyaspartate) 是牡蠣中的一種生物聚合物，它可通過抑制過量碳酸鈣的生成來停止貝殼的生長。</p> <p>Polyaspartate is a biopolymer in oysters that stops growth of shells by inhibiting growth of excess calcium carbonate.</p>	
文獻引用 (REFERENCES)	
<p>聚天門冬胺酸是由牡蠣產生的生物聚合物，它可幫助其殼塑形成特定的形狀。聚天門冬胺酸阻止了牡蠣殼的主要成分碳酸鈣的過度生成。(Ashley 2002: 32-33)</p> <p>Polyaspartate is a biopolymer produced by oysters to help mold their shells into their characteristic shape. Polyaspartate stops excess growth of calcium carbonate, the principal constituent of oyster shells. (Ashley 2002: 32-33)</p>	
參考文獻清單與連結 (REFERENCE LIST)	

Wheeler, A. P., J. W. George, and C. A. Evans. (1981). Control of calcium carbonate nucleation and crystal growth by soluble matrix of oyster shell. *Science* 212: 1397-1398.

( <https://science.sciencemag.org/content/212/4501/1397>)

**延伸閱讀: Harvard 或 APA 格式**

AskNature Team. (October 1, 2016). NanoChem BioPolymers. *AskNature*. Retrieved from: <https://asknature.org/idea/nanochem-biopolymers/>

**生物系統延伸閱讀資訊連結 (LEARN MORE ABOUT THE LIVING SYSTEM/S)**

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

**撰寫/翻譯/編修者與日期**

詹凱涵翻譯 (2020/04/24) ; 許秋容編修 (2020/05/22) ; 譚國銜編修 (2020/06/09)

**AskNature 原文連結**

<https://asknature.org/strategy/biopolymer-stops-shell-growth/>