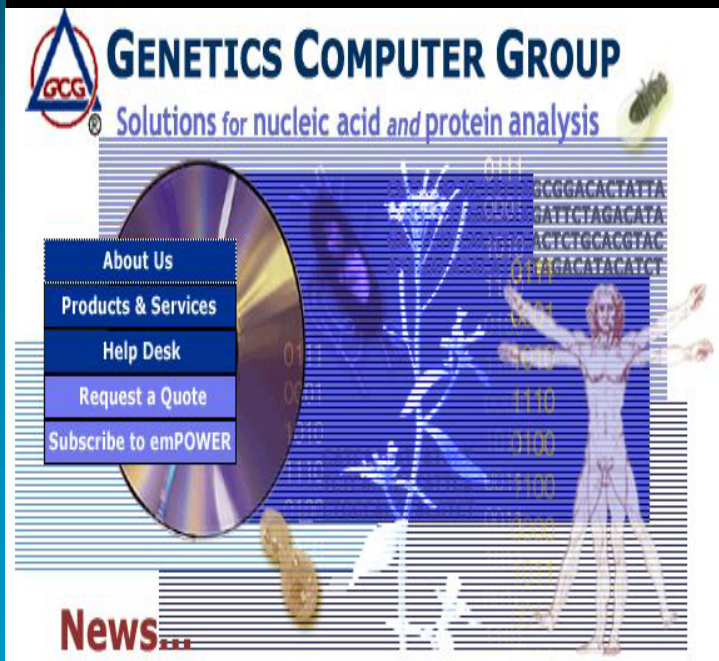


GCG

(Genetics Computer Group)



<http://www.gcg.com/>



- containing over 130 interrelated software programs to analyze nucleic acid and protein sequences
- It is used by scientists at over 650 institutions around the world
- multiple sequence alignment and analysis, sequence editing and comparison, protein analysis, evolutionary analysis and much more

GCG Wisconsin Package®

 <http://www.oxmol.com/>

WELCOME to OXFORD MOLECULAR

Destinations

Software

Explore our desktop and enterprise wide solutions for **bioinformatics** and **cheminformatics** research across the drug discovery process.



Solutions

Discover how Oxford Molecular's products and research services can solve your drug discovery needs.



What's New?

Flexible Inventory Management to Speed Drug Discovery

(May)

Pharmacopeia announces the release of a new Inventory Management solution, the latest addition to the RS3 Discovery range. RS3 Inventory provides effective

 Chemical information management and decision-support software solutions for life sciences discovery research

GCG程式套組與網路資源的比較

- WWW網路資源給人的印象是好學易用、圖形介面設計精美、功能可能比市售的程式更好，所以我們要問：為什麼要學程式套組，而不學網路上的資源？
- 網路資源的缺點：
 - 不同資料庫有不同的儲存格式
 - 網路使用者多時，分析速度將受到影響
 - 以圖形顯示結果的程式，在網路上通常不容易找到
 - 序列分析工具無法提供像一般程式套組這樣完整的功能
 - 想完成一些較複雜的工作，透過 Hyperlink 到多個不同的站台去，就會產生格式互換的問題

GCG程式套組與網路資源的比較 (Cont.)

- 網路上的序列分析使用的參數預設值(default)
並不見得是最佳的條件

- 使用套組不但可以調整程式中的參數，以找尋最佳的條件，更提供使用者訓練與諮詢服務
- 對需要做大量分析的人而言，程式套組更優於網路上的資源

How to use GCG

前言

- GCG 主機和 PC 不同
- GCG 主機中含有分析程式、核酸及蛋白質的資料庫及使用者的個人檔案
- 利用 NetTerm 建立 PC 與 GCG 主機間的連線
- 利用 FTP 做為 PC 與 GCG 主機間上傳、下載的工具

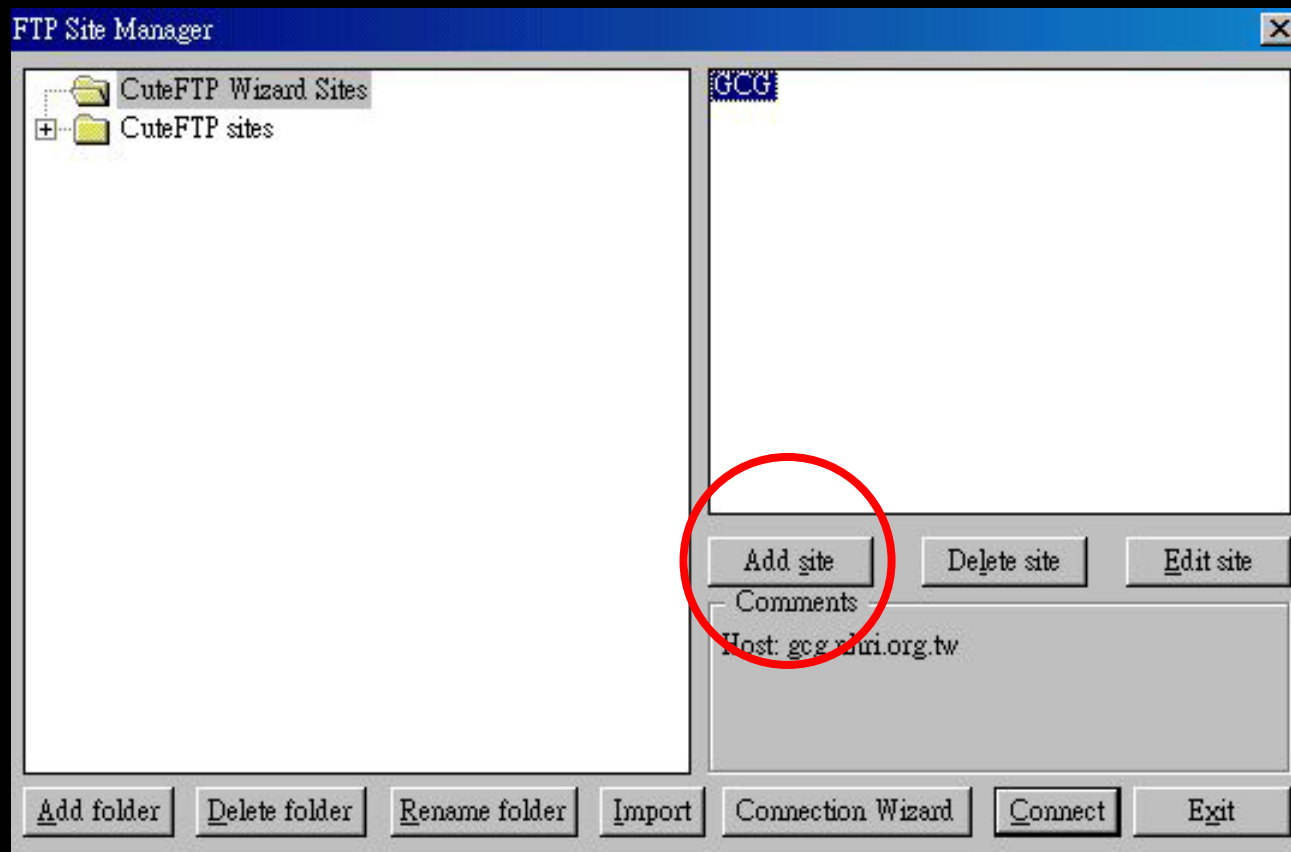
功能

程式

與GCG主機連線 (Telnet)	Netterm
檔案傳輸 (FTP)	WS-FTP,FTP Explorer, Cute FTP
直接於螢幕上察看繪出的圖形 (X-Window)	X-Window (Xdemo32, Exceed)
列印圖形	GS-View, Corel Draw, PhotoShop (for <i>.ps</i> file) Netscape, IE, PhotoShop, PhotoImpact (for <i>.gif</i> file)



FTP 設定



■ FTP 設定

Edit Host

General | Advanced

Site Label	GCG		
Host Address	gcg.nhri.org.tw		
User ID	genome070146		
Password	*****		
Host Type	Auto-Detect		
Initial Remote Directory			
Remote Directory Filter	☒ Local Filtering		
Initial Local Directory	...		
Local Directory Filter			
Login type	Transfer type		
☒ Normal	☐ ASCII		
☐ Anonymous	☐ Binary		
☐ Double	☒ Auto-Detect		

確定 取消 套用(A) 說明

Glossary

• Motif

- A consecutive string of amino acids in a protein sequences whose general character is repeated , or conserved , in all sequences in a multiple alignment at a particular position (conserved region).
- Typical conserved region around 10-20 amino acids in length
- Correspond to structural or functional elements.
(α helix 、 β strand)

Pattern

A single consensus expression derived from a conserved region of a sequence alignment , and used as a characteristic signature of family membership.

Synonymous : **rule 、 regular expression**

Profile

A position-specific scoring table.

乃是一個將序列中特定位置氨基酸序列予以加權計分及插空減分的計算表。透過這種計分模式，可用來檢測序列的相似程度

Terms used in sequence analysis methods

Identity matrices (**PRINTS**)

