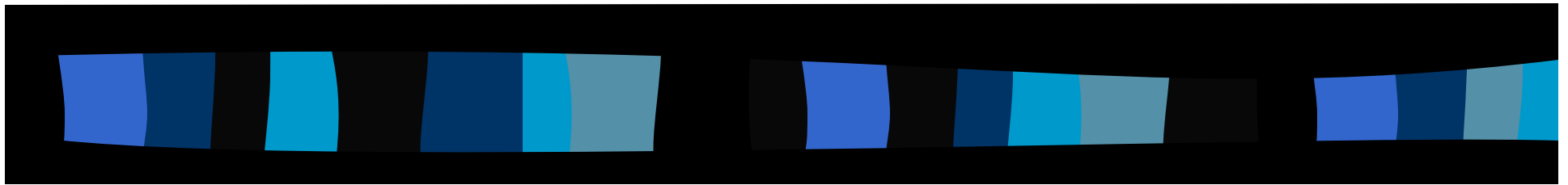


Resources Available Through the Biotechnology Resource Center Computing Facility



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Overview

- The Biotechnology Resource Center
- The Computing Facility
- Software
- Hands on



The Biotechnology Resource Center

- DNA Sequencing
- Oligonucleotide Synthesis
- DNA Fragment Analysis (genotyping)
- Quantitative Real-Time PCR
- Computing Facility
- Microscopy, Imaging and Fluorimetry
- Protein Sequencing
- Mass Spectrometry
- Custom Purification

<http://www.brc.cornell.edu>



Biotechnology Resource Center Computing Facility

- Computing Lab
- Support for Other Facilities
- Software Licensing and Support
- Consulting
- Software Archive
- Links



Computer Lab

- Room 171 Biotechnology Building
- MacOS and Windows Workstations
- Access to Campus Network Services
- Lasergraphics Film Recorder
- Codonics Dye Sublimation Printer
- Flatbed Scanner with Transparency Unit
- CD-R, ZIP drives
- Laser Printer and Color Ink-Jet printer
- Help Available During Business Hours
- Combination Access After Hours (see James or Barb for combination)



Software Archive

- Free software
 - DNA Primary Sequence Data Viewers
 - Utilities and Printer Drivers
- Commercial Software by Subscription
- “Links” section of web site has pointers to other resources including web based and desktop software



Software Accounts

- Concurrent use (“floating”) licenses purchased at a discount and managed through Sassafras’ Keyserver
- Primary investigator maintains a lab account
- All computers in a single lab can use the software
 - some exceptions
 - keyserver connection fees apply
- Trial Accounts Available



Pricing

- Cost Recovery Service Facility
- Film Recorder: \$5/roll
 - user supplies film and processing
- Codonics Printer: \$5/page
- Consulting: Inquire
- Software Prices Posted on Web Page



DNASTAR's Lasergene

- **Suite of Apps with Broad Range of Features**
- **MacOS and Windows**
- **Modules**
 - **EditSeq** - Importing and Editing Primary Sequence Data
 - **PrimerSelect** - Oligonucleotide Design and Analysis
 - **MapDraw** - Restriction Site Analysis & Map Creation
 - **MegAlign** - Multiple and Pairwise Sequence Alignment
 - **Protean** - Protein Structure Discovery, Annotation and Pub.
 - **GeneQuest** - Gene Discovery, Seq. Annotation and Pub.
 - **SeqMan II** - Sequence Assembly and Contig Management

<http://www.dnastar.com>



Gene Codes's Sequencher

- Sequence Editing and Assembly
- Restriction Site and ORF/Translation analysis
- Very Simple to Use and Very Powerful
- MacOS and Windows

<http://www.genecodes.com>



Textco's Gene Construction Kit 2

- Cloning Project Management, Plasmid Mapping and Presentation
- MacOS and Windows

<http://www.textco.com>



PAUP*

- Phylogenetic Analysis Using Parsimony (*and other methods)
- MacOS, Windows, Unix/Linux

<http://www.lms.si.edu/PAUP/index.html>



MacClade

- Phylogenetic Analysis, Manipulation and Presentation.
- Integrates with and complements PAUP*
- MacOS Only

<http://phylogeny.arizona.edu/macclade/macclade.html>



Adobe Photoshop and Illustrator

- Image Editing (painting) and Drawing (figures and illustrations)
- Powerful and “Standard”, but expensive.
- MacOS and Windows

<http://www.adobe.com>



Linux/Unix Resources

- Shell accounts
- University of Washington's Phred/Phrap/Consed etc...
- Staden Package
- Other Software



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- Other Services: See Web Page