

# Summer 2007 WV-INBRE Bioinformatics Workshops

**June 12-14**

West Virginia University Health Sciences Center

Accelrys GCG ® (formerly known as the Wisconsin Package) is the most widely used bioinformatics suite in the world. Containing over 130 programs, it covers almost every aspect of biological sequence analysis. Based on published algorithms from the fields of mathematical and computational biology, the Package includes tools for:

Comparison	Gene Finding and Pattern Recognition
Database Searching and Retrieval	Importing and Exporting
DNA/RNA Secondary Structure	Mapping
Editing and Publication	Primer Selection
Evolution	Protein Analysis
Fragment Assembly	Translation

The first two days of the workshop covers the use of the Wisconsin Package through the X-Windows interface SeqLab®. In addition to exposing users to the graphical user interface, many of the basic functions are described in detail with enough theoretical description to obtain an understanding of many of the programs.

SeqWeb® will be covered on the third day. SeqWeb® provides intranet access to the more frequently used applications in the Wisconsin Package from a web browser. The unique program grouping approach and condensed parameter option sets provide a quick and easy way for common sequence analysis tasks. The enhanced Java applets empower users with greater ability to interact with sequences and analytical results. It is easier to use and is especially convenient for infrequent users.

These workshops are open to WV-INBRE participants. There is no charge to participate. All instruction will be held in computer labs. There will be lecture, hand-on work and problem sessions. Participants are encouraged to bring their own sequences or research problems to work on. The instructor will be able assist with advanced questions during the lab sessions. Attendance is limited to 20. Registration information is given on the following page.

Travel support is available. Details are given in the table on the following page.

## Travel support information

Institution	Travel support source & contact
WV-INBRE Network Research Institutions: Fairmont State University West Virginia State University West Liberty State College Wheeling Jesuit University	Support from the institution's Research Support funds. Institutional official
WV-INBRE Network Outreach Institutions: Alderson-Broadus College Bluefield State Univ Concord University Davis and Elkins College Shepherd University West Virginia Wesleyan College University of Charleston	Support from Outreach Core Dr. Mark Reasor Outreach Core Director ( <a href="mailto:mreasor@hsc.wvu.edu">mreasor@hsc.wvu.edu</a> ).
WV-INBRE Extended Outreach Institutions: Bethany College Glenville State College Mountain State University Salem International University	Support from Bioinformatics Core Dr. Mary Davis Bioinformatics Core Director ( <a href="mailto:mdavis@hsc.wvu.edu">mdavis@hsc.wvu.edu</a> ).

## Registration Information

To register, send the information below to Dr. Mary Davis, Bioinformatics Core Director ([mdavis@hsc.wvu.edu](mailto:mdavis@hsc.wvu.edu)).

Name:

Contact information: email:

Department and/or School:

College/University

Indicate role(s) in WV-INBRE:

faculty

faculty fellow

student

student intern

mentor