

9 January 2002

***WV-BRIN Survey to Assess the Goals, Resources
and Needs of PUI Partners***

TO: WV-BRIN PUI Resource Teams

FROM: James M. Sheil, Ph.D., WV-BRIN Program Director

The attached document is a survey instrument designed to enable the WV-BRIN Steering Committee to better envision the scope of the needed program to enhance biomedical research and education among the partner institutions in the State. In addition, it will provide important baseline data to track the impact of WV-BRIN. Please take some time to carefully address the questions and issues raised in this survey instrument. It is important to focus specifically on how you can best represent your institution as a participating member of the overall WV-BRIN Consortium.

Please complete the enclosed survey and return it to me by January 30, 2002. You may submit this form either electronically to me at: jsheil@hsc.wvu.edu or by mail to:

James M. Sheil, Ph.D.
Department of Microbiology, Immunology & Cell Biology
P.O. Box 9177; Health Sciences North
West Virginia University
Morgantown, WV 26506-9177

Thanks,

Jim Sheil
WV-BRIN Program Director

5. How many BS and MS/MA students have participated in summer research internships over the last three years?

	2001		2000		1999	
	BS	MS	BS	MS	BS	MS
Biology	___	___	___	___	___	___
Biotechnology	___	___	___	___	___	___
Chemistry	___	___	___	___	___	___
Computer Science	___	___	___	___	___	___
Math	___	___	___	___	___	___
Other applicable majors (identify)	___	___	___	___	___	___

6. What are the existing undergraduate research activities available on your campus? (Indicate whether the activity is a class/institutional requirement or independent/faculty-sponsored.)

7. How many graduates have matriculated in a graduate program in one of the following science fields?

	2001	2000	1999
Biology	_____	_____	_____
Biomedical Science*	_____	_____	_____
Biotechnology	_____	_____	_____
Chemistry	_____	_____	_____
Computer Science	_____	_____	_____
Math	_____	_____	_____
Other applicable majors (identify)	_____	_____	_____

* *Anatomy, Biochemistry, Microbiology, Genetics, Immunology, Pharmacology, and Physiology*

7. How many faculty members are in the following WV-BRIN related disciplines?

Biology	_____
Biotechnology	_____
Chemistry	_____
Computer Science	_____
Math	_____
Other related disciplines (identify)	_____

2. **How many faculty members have submitted a biomedical or molecular biology research grant within the last three academic years?**

	2001	2000	1999
Biology	_____	_____	_____
Biotechnology	_____	_____	_____
Chemistry	_____	_____	_____
Computer Science	_____	_____	_____
Math	_____	_____	_____
Other applicable majors (identify)	_____	_____	_____

3. **How many faculty members have had a research grant funded within the last three academic years? (External funding only; Indicate, in parentheses, the number of NSF EPSCoR/ NIH IdeA awards)**

	2001	2000	1999
Biology	_____	_____	_____
Biotechnology	_____	_____	_____
Chemistry	_____	_____	_____
Computer Science	_____	_____	_____
Math	_____	_____	_____
Other applicable majors (identify)	_____	_____	_____

4. **How many faculty members have attended a national/international research meeting in any biomedical discipline in the last three academic years?**

	2001	2000	1999
Biology	_____	_____	_____
Biotechnology	_____	_____	_____
Chemistry	_____	_____	_____
Computer Science	_____	_____	_____
Math	_____	_____	_____
Other applicable majors (identify)	_____	_____	_____

Part III: WV-BRIN Training & Mentoring Core (TMC) Program

1. Which of the following potential WV-BRIN mentoring activities are of interest to faculty/students at your institution (provide an estimated number of interested faculty/students)?

Opportunity	Estimated Number
Writing research grants	
Training in cell/molecular biology laboratory methods for research	
Bioinformatics and software use	
Informed consent/human experimentation training	
Confidentiality of clinical data training	
Bioethics symposium on genetic testing	
Student participation in programs to encourage continuing graduate education in biomedical science.	
WebCT instruction and Bioinformatics teaching modules	
Others	

2. Which of the following WV-BRIN research programs are of interest to faculty/students at your institution (provide an estimated number of interested faculty/students)?

Opportunity	Estimated Number
Biomedical research initiation grants	
Equipment grants	
Faculty Summer Research fellowships	
Developing collaborative biomedical research programs	
Mini-grants to travel to/participate in scientific meetings	
Bioinformatics workshop May/June 2002	
Student summer internship programs	
Accelrys (formerly GCG) Omega software	
Participation in annual research symposium	
Wisconsin package (Accelrys) software	
Developing medical informatics or bioinformatics software applications	
Developing mathematical models for bioinformatics	

3. Which aspects of bioinformatics are faculty members at your institution interested in?

Program	Number of interested faculty
Gene mapping Mendelian or quantitative loci	
OMIGA software training	
Wisconsin Package Software Training	
Designing oligonucleotides for PCR	
Using National Library of Medicine software and GenBank and other databases	
Modeling Protein Structures	
Microarray analysis	
Proteomics	
Basics of flat files and relational databases	
Perl programming to develop complex searching strategies for public databases.	
Molecular Taxonomy	
Mathematical algorithms/models of bioinformatics	
Biology Workbench	
Analysis of automated DNA sequence data	
Forensic DNA applications	
Others	

- 3. Does your institution provide resources and infrastructure for online deployment of course material?**

If so, what resources are used (e.g., WebCT)?

If not, do you use any platforms outside your institution (e.g., blackboard.com)?

- 4. At the December 3, 2001, WV-BRIN Steering Committee meeting, online access to journals was suggested as a needed resource. Please indicate specific journals that you need to access online to support the WV-BRIN objectives.**

- 5. Please list or describe bioinformatics or computer-related and telecommunications-related impediments to research at your institution.**

PART VI: General Questions and Comments

Please use this space to raise any questions, provide comments, or raise concerns about any aspect of the WV-BRIN program.