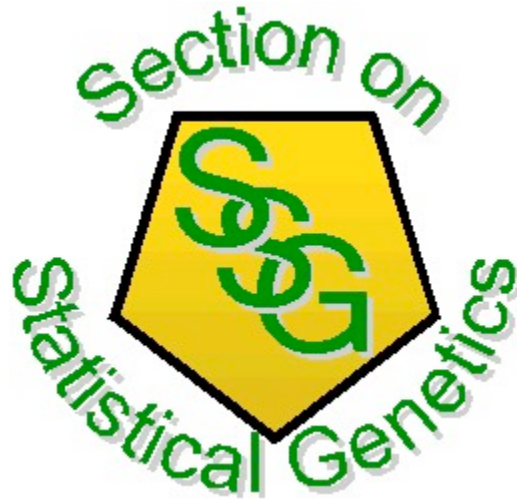


**University of Alabama at Birmingham  
Department of Biostatistics**



**First Plant Microarray Short Course  
on  
Design and Analysis of Plant Microarray  
Experimentation**

**June 13 - 14, 2005**

**Funded by a Grant from the National Science Foundation**

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## **Overview**

"Design and Analysis of Plant Microarray Experimentation", a Short Course funded by NSF, will be held in Madison, WI during June 13-14, 2005, in conjunction with the 16th International Conference on Arabidopsis Research.

This course is designed to help plant biology investigators better understand and use DNA microarrays and thereby further their ability to meet their scientific objectives. It is aimed at established investigators, post-doctoral fellows, and advanced graduate students.

The course is two full days in length, and offers a vigorous interactive educational program designed to enhance researcher's ability to implement and, importantly, interpret the results of sophisticated microarray analysis in plant research.

Women, members of underrepresented minority groups and disabled individuals are strongly encouraged to apply.

## FACULTY

The faculty members for the First Plant Microarray Short Course are:

<b>Faculty</b>	<b>Institution</b>
<b>David B. Allison, PhD</b>	<b>University of Alabama at Birmingham</b>
<b>Naomi Altman, PhD</b>	<b>Pennsylvania State University</b>
<b>Justin Borveitz, PhD</b>	<b>University of Chicago</b>
<b>Xiangqin Cui, PhD</b>	<b>University of Alabama at Birmingham</b>
<b>David Finkelstein, PhD</b>	<b>St. Jude Children's Research Hospital</b>
<b>Margarita Garcia-Hernandez, PhD</b>	<b>TAIR</b>
<b>Rudy Guerra, PhD</b>	<b>Rice University</b>
<b>Ann Loraine, PhD</b>	<b>University of Alabama at Birmingham</b>
<b>Stephanie Monks, PhD</b>	<b>Oklahoma State University</b>
<b>Grier Page, PhD</b>	<b>University of Alabama at Birmingham</b>
<b>Paul Pavlidis, PhD</b>	<b>Columbia University</b>
<b>Brian Yandell, PhD</b>	<b>University of Wisconsin at Madison</b>

## **SCHEDULE**

Final Schedule is being developed. Topics to be included are:

- Survey of various Arabidopsis and other plant microarrays
- Designing the Experiment, including loops, replication and sample size
- Image processing, analysis, QC and normalization – One and two channel arrays
- Cluster and Discriminate Analysis
- Inferential Statistical procedures- one and two channel arrays
- False discovery rate (FDR) estimation and Multiple testing
- Bioinformatic tools, web sites and software
- Annotation, Gene Ontology (GO) terms, and Class level analysis
- Using expression arrays for genotyping
- Co-expression analysis, promoter analysis
- Expression QTL analysis
- Bayesian Methods
- Data Analysis Walk-through

## Registration

**To register for the Short Course, send by e-mail,**

- (a) a completed registration form including a brief personal statement, and
- (b) a copy of your curriculum vitae

**to the following address:**

Richard Sarver  
Department Biostatistics  
University of Alabama at Birmingham  
Birmingham, AL 35294-0022  
E-mail: [RSarver@UAB.edu](mailto:RSarver@UAB.edu)  
Phone: (205) 975-9169

The cost of the short course is \$100 and includes the cost of the text book (provided) as instruction. This cost does not include the cost of food, travel or lodging.

A limited number of travel scholarships are available: 10-\$500 for students attending the Arabidopsis conference and 5-\$1000 for those not attending the Arabidopsis Conference. Preference for scholarships will be given to students and post-doctoral fellows.

Due to the limited number of seats for the short course, those interested should apply as early as possible, but no later than May 6, 2005. Applicants will be notified of the selection decision by May 13, 2005.

For further information, please contact Richard Sarver.

**First Plant Microarray Short Course on  
Design and Analysis of Plant Microarray Experimentation**

Madison, WI  
University of Wisconsin Student Union  
June 13 - 14, 2005

**REGISTRATION FORM**

<b>Name</b>	
<b>Affiliation</b>	
<b>Address</b>	
<b>City, State, Zip</b>	
<b>Daytime phone</b>	
<b>Alternate phone</b>	
<b>Fax</b>	
<b>Email address</b>	
<b>Position title</b>	

**OPTIONAL INFORMATION**

The following information is OPTIONAL. Although it will not influence your selection to participate in this course, it will provide information requested by the NIAMS. Your cooperation will be appreciated.

**Sex:**                     Male                     Female

**Racial/ethnic heritage (please mark all that apply):**

- |  |  |
|--|--|
| <input type="checkbox"/> American Indian or Alaskan Native | <input type="checkbox"/> Asian or Pacific Islander |
| <input type="checkbox"/> Black / African American          | <input type="checkbox"/> White / European American |
| <input type="checkbox"/> Hispanic / Latino                 | <input type="checkbox"/> Other (please specify)    |

## PERSONAL STATEMENT

Please provide a brief written statement (maximum of 300 words) indicating your background, research interests, why do you think you should be considered to participate in this course, and your expectation about the course. Include a copy of your CV with the application.

Would you like to be considered for travel scholarship?  Yes  No

If yes, are you also attending Arabidopsis Conference?  Yes  No