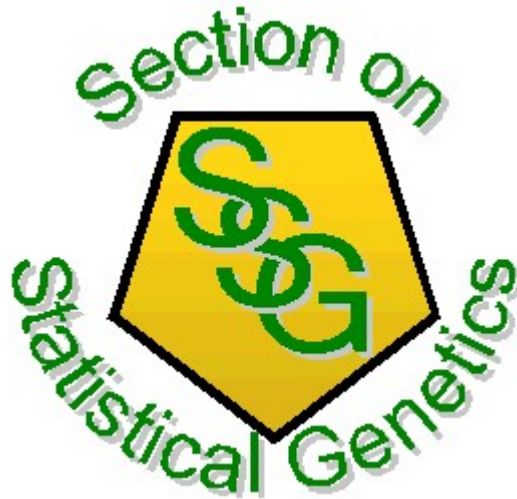


**University of Alabama at Birmingham
Department of Biostatistics**



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

August 2 - 4, 2006

Funded by a Grant from the National Science Foundation

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Overview

The University of Alabama at Birmingham's Section on Statistical Genetics is pleased to offer a National Science Foundation-funded Short Course on Design and Analysis of Plant Microarray Experimentation. This meeting will be held immediately prior to the joint annual meeting of the American Society of Plant Biologists and the Canadian Society of Plant Physiologists in Boston MA on August 2 - 4.

This course is designed to help investigators studying the genetics of plant traits to better understand and use statistical genetics methods, 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 and one half 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 individuals with disabilities are strongly encouraged to apply.

A full agenda may be found on the course website at http://www.soph.uab.edu/ssg_content.asp?id=1646.

FACULTY

Beyond our own faculty members, about 25 nationally and internationally recognized faculty teach in the Short Course on a rotating basis.

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

Faculty	Institution
David B. Allison, PhD	University of Alabama at Birmingham
Naomi Altman, PhD	Pennsylvania State University
Xiangqin Cui, PhD	University of Alabama at Birmingham
David Finkelstein, PhD	St. Jude Children's Research Hospital
Gary Gadbury, PhD	University of Missouri-Rolla
Ann Loraine, PhD	University of Alabama at Birmingham
Stephanie Monks, PhD	Oklahoma State University
Daniel S. Nettleton, PhD	Iowa State University
Grier P. Page, PhD	University of Alabama at Birmingham

& more to be determined

SCHEDULE

Final Schedule is being developed.

DATE	TIME	SPEAKER/MODERATOR	TOPIC
August 2, 2006	8:00 - 8:15 am	David B. Allison	Introduction
	8:15 - 9:45 am	Naomi S. Altman	Introduction to Statistics
	9:45 - 10:30 am	Grier P. Page	Survey of Plant microarrays
	10:30 - 10:45 am		Break
	10:45 am - 12:15 pm	TBD	Designing the Experiment, including loops, replication and sample size. Biological replication. What is a Hypothesis?
	12:15 - 1:15 pm		Lunch
	1:15 - 2:00 pm	TBD	Image processing, analysis, QC and normalization - Two color
	2:00 - 2:45 pm	TBD	Image Processing - Affymetrix
	2:45 - 3:00 pm		Break
	3:00 - 3:45 pm	Xiangqin Cui	Inferential Statistical procedures- linear models;
	3:45 - 4:30 pm	TBD	Inferential Statistical Procedures - Affymetrix
	4:30 - 5:15 pm	TBD	Statistical analysis of time-course array data
5:15 - 5:45 pm	All	Q & A	



August 3, 2006	8:00 - 8:15 am	David B. Allison	Introduction
	8:15 - 9:00 am	Gary Gadbury	FDR and Multiple testing
	9:00 - 10:00 am	Daniel S. Nettleton	Cluster analysis
	10:00 - 10:15 am		Break
	10:15 - 11:15 am	Stephanie Monks	Classification and discriminate analysis

	11:15 am - 12:00 pm	TBD	New Uses of Arrays: Chip-Chip; CGH, Protein Microarrays, Tiling arrays
	12:00 - 1:00 pm		Lunch
	1:00 - 1:30 pm	TBD	Quality Control in Microarray Experiments
	1:30 - 2:15 pm	TBD	Go terms and Class level analysis
	2:15 - 2:45 pm	TBD	Bayesian Methods
	2:45 - 3:00 pm		Break
	3:00 - 3:45 pm	TBD	Co-expression analysis, promoter analysis
	3:45 - 4:30 pm	David B. Allison	Validation of Results
	4:30 - 5:30 pm	Xiangqin Cui	Bioinformatics tools and web sites and software
	5:30 - 6:00 pm	All	Questions and Wrap up
	7:00 pm -	All	Dinner with faculty and students



August 4, 2006	8:00 - 10:00 am	Grier P Page	Software Demonstrations
	10:00 - 10:15 am		Break
	10:15 - 12:00 pm	All	Time for students to meet individually with faculty; Get assistance in analysis
	12:00 - 1:00 pm		Lunch
	1:00 - 3:00 pm	David Finkelstein	Data Analysis Walk-through
	3:00 - 3:15 pm		Break
	3:15 - 5:00 pm	TBD	Time for students to meet individually with faculty; Get assistance in analysis

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
Phone: (205) 975-9169

Tuition is \$100 and does not include the cost of food, travel or lodging.

Funds are available on a competitive basis for travel scholarships.

Registration will be limited to 45, so please apply prior to June 10. Accepted applicants will be notified by June 12. To apply, click through to http://www.soph.uab.edu/ssg_content.asp?id=1646, fill out the registration form, and send it to rsarver@uab.edu.

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

Boston MA

Hyatt Harborside at Boston's Logan International Airport

August 2 - 4, 2006

REGISTRATION FORM

Name	
Affiliation	
Address	
City, State, Zip	
Daytime phone	
Alternate phone	
Fax	
Email address	
Position title	

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):

American Indian or Alaskan Native

Asian or Pacific Islander

Black / African American

White / European American

Hispanic / Latino

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 ASPB Conference? Yes No