

Bioinformatics Workshop

Agenda

Friday, June 11th

Time	Event	Location
Afternoon	Arrivals	McCombs Hospitality Suite Room 131
5:30-6:30 p.m.	Dinner Meeting	McCombs Dining Roy Shilling Room

Saturday, June 12th

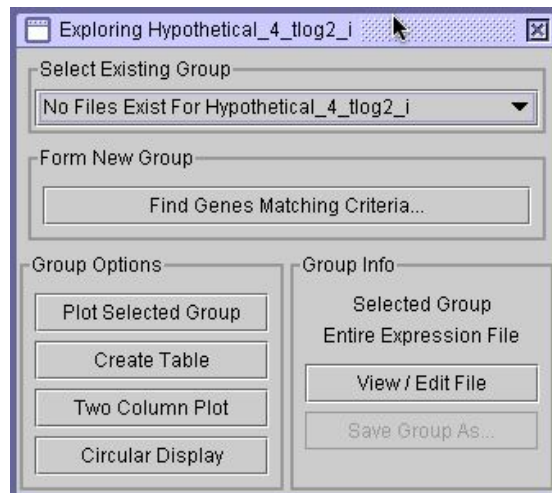
7:00–8:30 a.m.	Breakfast	McCombs Dining Roy Shilling Room
8:30-9:00 a.m.	Introduction to DNA Microarrays	ACSTC East (204)
9:00-9:30 a.m.	Survey of Useful Resources	
9:30-9:45 p.m.	Introduction to MAGIC Tool	
9:45-10:15 p.m.	Raw data format & Creating Projects - Create Two Projects (One_Grid and Four_Grid)	
10:15-10:30 p.m	Break	ACSMM Lab (201)
10:30-11:00 p.m.	Gene Lists and Addressing - Look at Excel file and .txt file - Know the layout of your microarrays - Load gene list into MAGIC Tool - Begin with 1 grid file address it	ACSTC East (204)
11:00-11:30 p.m.	Gridding - Generate Grid for 1 grid pair of tiff files - Produce and save .grid file under One_Grid project	
11:30- 11:45 p.m.	Recap and Questions	
11:45-1:00 p.m.	Lunch	McCombs Dining Roy Shilling Room

Saturday, June 12th (continued)

Time	Event	Location
1:00-2:00 p.m.	Generate a grid file for the 4 grid pair of tiff files in the Four_Grid project	ACSTC East (204)
2:00-5:00 p.m.	Segmentation and Generating Ratios <ul style="list-style-type: none"> - Close Four_Grid and Open One_Grid project - Load tiff files and open saved grid file - Discuss the 3 ways to segment features - Discuss 4 ways to produce ratios Generate 12 ratios for One_Grid project Append files each time - Generate 2 ratios for Four_Grid project Save as separate files 	
5:00-6:30 p.m.	Dinner	McCombs Dining Roy Shilling Room
6:30-8:00 p.m.	(Optional) Lab Work Time	ACSTC East (204)

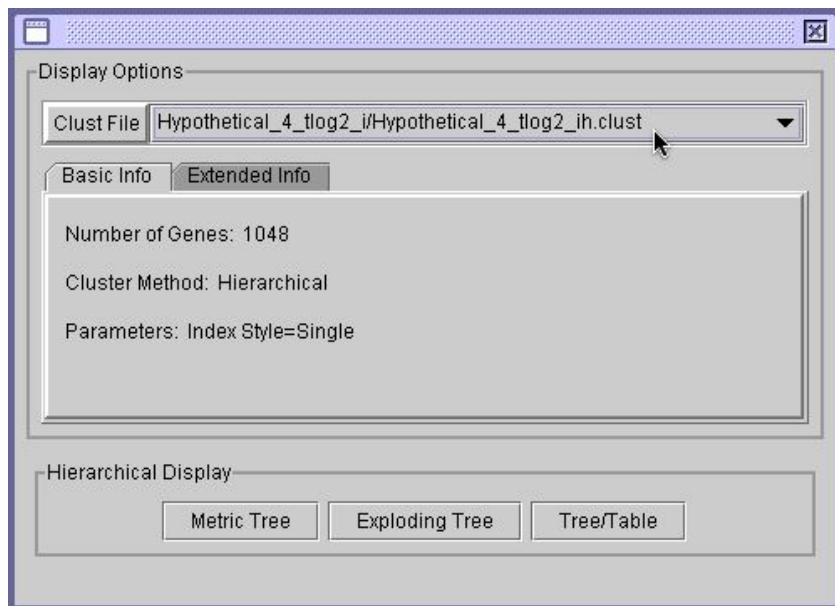
Sunday, June 13th

7:00-8:30 a.m.	Breakfast	McCombs Dining Roy Shilling Room
9:00-9:30 a.m.	Quality Control for DNA Microarrays	ACSTC East (204)
9:30-10:00 p.m.	Case Studies with DNA Microarrays	ACSTC East (204)
10:00-10:30 p.m.	Transformation of Data <ul style="list-style-type: none"> - Transform your last appended One_Grid .exp file - Transform your two Four_Grid .exp files - Download and transform 4_grid Hypothetical Data (see MAGIC Tool Page) - Add 4_grid Hypothetical Data to your Four_Grid Project 	
10:30- 10:45 p.m	Break	ACSM Lab (201)
10:45-12:15 p.m.	Exploring Ratio Data <ul style="list-style-type: none"> - Add GeneInfo.info file to your Four_Grid Project - Attach GeneInfo.info to your Hypothetical 4 grid .exp file 	ACSTC East (204)



Sunday, June 13th (continued)

Time	Event	Location
12:15-1:00 p.m.	Lunch	McCombs Dining Roy Shilling Room
1:15-2:15 p.m.	Managing Data <ul style="list-style-type: none"> - Average Replicates - Merge Files - Limit Data (columns) - Filter Genes (rows) 	ACSTC East (204)
2:15-3:30 p.m.	Clustering Data <ul style="list-style-type: none"> - Discuss Correlation Coefficients Refer to Instructor's Guide and Math Help for Details - Work with Excel File from Laurie Heyer - Calculate Dissimilarities - Cluster By Hierarchical and QT Methods (4_grid Hypothetical Data) 	
3:30- 3:45 p.m	Break	ACSMM Lab (201)
3:45-5:00 p.m.	Visualizing Clustered Data	



6:30 p.m.-8:00 p.m.	(Optional) Lab Work Time	ACSTC East (204)
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Monday, June 14th

Time	Event	Location
7:00–9:00 a.m.	Continental Breakfast	McCombs Hospitality Suite Room 131
9:00-9:30 p.m.	Recap and Questions	ACSTC East (204)
9:30-10:30 p.m.	Generating Tiff files for teaching purposes	
10:30-10:45 p.m.	Break	ACSMM Lab (201)

Monday, June 14th (continued)

Time	Event	Location
10:45-12:00 p.m.	Curriculum discussions and workshop assessment & Group photo ACS Evaluation: http://dev.colleges.org/~koenigl/surveyTool1.0/login.php	ACSTC East (204)
12:00-1:00 p.m.	Lunch	McCombs Dining Roy Shilling Room
Afternoon	Departures	