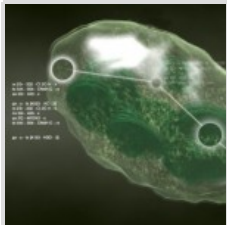


# SPiRE-EIT REU 2010

Summer Program for Interdisciplinary Research and Education  
Emerging Interface Technologies

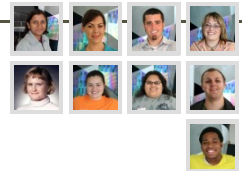
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## Visualizing Data

Public Group active 4 years, 5 months ago

### Group Admins



Visualizing Gene Expression and Metabolomics Data  
Faculty: Julie Dickerson  
Graduate Students: Preeti Bais, Jesse Walsh, Erin Boggess  
REU Interns: Megan Wilson, Nereida Aguilar, Ike Anyanetu

This project will help biologists determine the biological processes behind their data by linking measured data values to biological pathways and networks. Students will explore methods that link known metabolic pathways to data that shows gene, protein and metabolite activity in a web application. One simple method is displaying the pathway as a directed graph with node colors, line styles and colors, transparency showing the information from the data. More sophisticated methods will allow a user to link higher level information to the data to find common reasons why the organism changed. The students will use their knowledge of user interfaces to make the interface easy to use for bench biologists and students of all levels.

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### WHAT'S NEW IN VISUALIZING DATA, REU?



Post Update



**Ike Anyanetu** posted an update in the group **Visualizing Data**: 4 years, 5 months ago · [View](#) · [Delete](#)

Stumbled across Biopython ([http://biopython.org/wiki/Main\\_Page](http://biopython.org/wiki/Main_Page)) ...I haven't looked much into it, but it seems very relevant.

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**Megan Wilson** posted an update in the group **Visualizing Data**: 4 years, 5 months ago · [View](#) · [Delete](#)

Excited to learn a new programming language and need to review my metabolic pathways.

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**Andrea Peer** created the group **Visualizing Gene Expression and Metabolomics Data** 4 years, 6 months ago · [View](#) · [Delete](#)

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