

## **MACOBE: Can Cells Solve Mazes?**

### **BioE451 section 4**

**Wed. 11am**

Neurons, as the building components and responsive cells in the nervous system, are best known for their capability to process and transmit information by electrochemical signaling. The complexity and diversity in nervous systems depends on the interconnections between neurons. This complexity makes neuronal processes very difficult to analyze, predict, and interpret. Therefore, this creative inquiry aims to bring students from several different departments to tackle these issues. This team has been working on these projects for several semesters. In the next phase of the project, the team will determine how cells respond to growth factor concentration gradients and whether cells can solve mazes! This will involve experiments as well as computational modeling techniques. By using a combination of experimental, analytical and computational techniques, the team will work on various problems related to cell growth modeling.

### **Questionnaire**

- 1) Name:
- 2) Major:
- 3) Year at Clemson University (as of May 2011): 1st
- 4) Current Overall GPA:
- 5) Why are you interested in joining this Creative Inquiry experience?

6) What do you want to do when you graduate and why?

7) How do you rate yourself in time management?

I think I am 3 (On time mostly)

Explanation of the choice

1. Well organized (Have a weekly calendars of things to do, always on time for class and meetings, prepare for class/exams in advance)
2. Moderately organized (Have a to do list, always on time for class and meetings, try to give myself some time to get things done)
3. On Time Mostly (Try to show up at class/meetings and get things done on time)
4. Procrastinator (I wait until last minute to do things)
5. Total mess (Always late and/or miss deadlines often)