

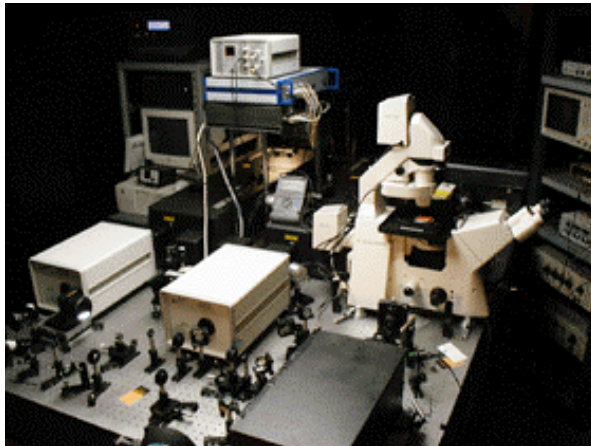
Chemical Biology 128 Proposal



By Ann Chung

What is the proposal?

- Find out what causes Diabetes type II using CARS microscopy.



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Facts on Diabetes type II

- **20.8 million people affected by Diabetes Mellitus.**
- **Additional 41 million people are in danger of this self-inflicted disease.**



Causes of Diabetes Type II

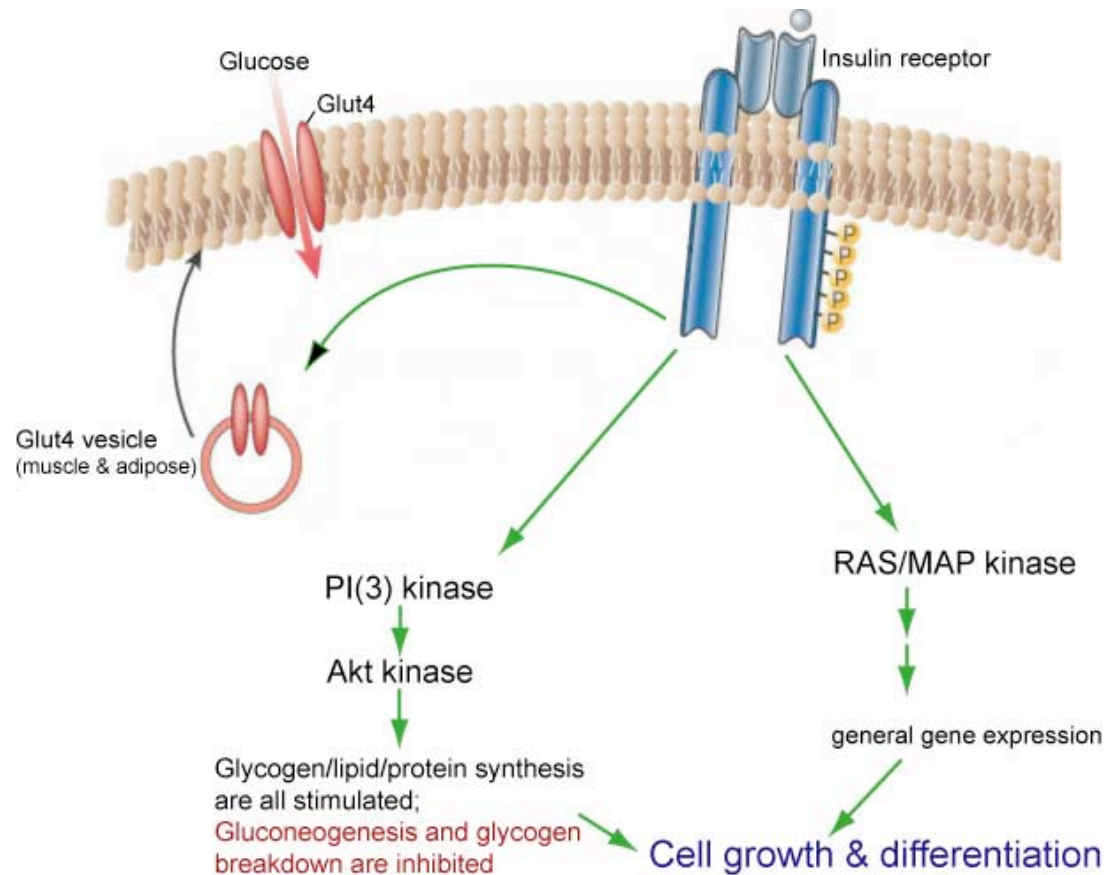
- Poor eating habits
- Lack of exercise/sedentary lifestyle
- Obesity
- Depression



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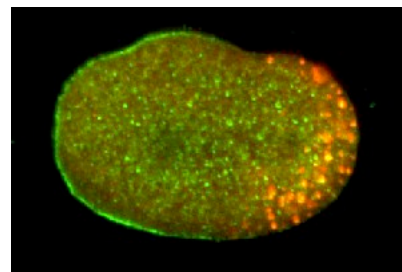
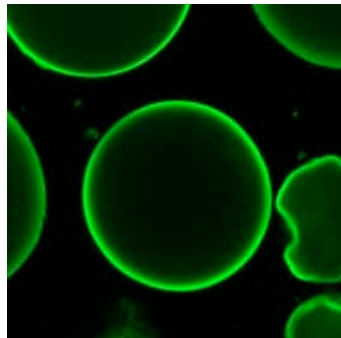
"I can't wash the dishes or vacuum the den — I have diabetes!"

The insulin signal transduction pathways



Experiment

- Compare normal muscle cells with abnormal cells.
- Look under the microscope for difference in morphology.
- Lipid & protein distribution



Conclusion

- **Thank you!!!**