

Killing Cells by Upregulation of Ceramide Synthases

- Cells are in a constant equilibrium between proliferation and death
- **Apoptosis:** cells undergo programmed, non-inflammatory death that benefits surrounding cells



Alzheimer's
Disease



- Initiation of the process
- Increasing the concentration of a lipid (ceramide)
- We study how cells produce more ceramide to undergo apoptosis

- Ceramide synthases produce ceramide in cells
- How are these enzymes regulated (activated/deactivated)?
- We use cell culture, protein biochemistry and enzyme kinetics to address the issue
- The main result is:

