

Bio 366: Biological Chemistry II

Tu/Th 9:45-11:05 am, ES 242

If you have chosen one or more group members, please PRINT your names in the space below. If you have chosen a preferred topic, but no other group members, please indicate this on the form, and I will try to match you with class members having similar interests. If you feel that you absolutely must work alone (or with only one other person), please indicate this on the front and explain your reasons on the back. I will consider these requests based upon time available for presentations.

Partner #1: _____

Partner #2: _____

Partner #3: _____

Suggestions for Paper Topics:

Number top three choices:

- _____ Proteasomes
- _____ Glycogen storage disease
- _____ Arachidonic acid metabolism
- _____ Nonsteroidal anti-inflammatory drugs (mechanism of enzyme inhibition)
- _____ Familial hypercholesterolemia (genetic causes)
- _____ Glutamine synthetase/glutamine metabolism
- _____ Nitrogen fixation
- _____ Tetrahydrofolate reductase
- _____ The Urea Cycle
- _____ Aminotransferases
- _____ Ribonucleotide reductases
- _____ Superoxide dismutase
- _____ *E. coli* RNA polymerase
- _____ Eukaryotic RNA polymerase I, II, or III (choose one)
- _____ DNA polymerases
- _____ Transcription chain termination
- _____ Post-transcriptional modification of mRNA
- _____ Splicosomes
- _____ Systemic lupus erythematosus
- _____ Ribozymes (RNA "enzymes")
- _____ Aminoacyl tRNA synthetases (structure, function, evolution)
- _____ "Non-standard" genetic codes (how do they evolve?)
- _____ Heme metabolism
- _____ tRNA structure and function
- _____ Selenocysteine ("the 21st amino acid")
- _____ Ribosome structure and function (lots new here)
- _____ Protein biosynthesis
- _____ Post-translational modification of proteins
- _____ Protein degradation by eukaryotic cells (*e.g.*, ubiquitin-mediated)
- _____ DNA replication
- _____ DNA repair mechanisms
- _____ Other (please specify): _____
- _____ Other (please specify): _____

Try the Web site below, and do a full "Literature-PubMed" search on topics of your interest:
<http://www.ncbi.nlm.nih.gov/Entrez/index.html>