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:

- Prokaryotes
- 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”)
- Aminocetyl 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: