

## CHEM-643 Intermediary Metabolism

Checklist for final group assignment on:

Selection for amino acid composition in amino acid biosynthetic enzymes.

The paper should have:

1. An appropriate Title.
2. A list of all participating group members (Authors).
3. An Abstract that clearly and succinctly summarizes the paper in  $\leq 200$  words.
4. An Introduction that provides a background to the study and develops the hypothesis in the context of the metabolic characteristics of the organism and amino acid pathway selected. This is an appropriate place to show and discuss the metabolic pathway giving structures, cofactors, and names of enzymes.
5. A Methods section that includes a description
  - a. the various comparisons made
  - b. the rationale for each comparison
  - c. any statistical analyses performed.
6. A Results section that presents relevant data in graphical or table format
7. A Discussion of the results
8. Conclusions
9. References used and appropriately cited in the text

Grading will be based on

1. How well organized and presented the paper is
2. Writing quality—free of grammatical and spelling errors
3. Conclusions that are supported by well-analyzed data and associated discussion
4. Conclusions that are supported by multiple tests
5. Exceptional elements that show depth of investigation, understanding, and presentation.

Oral Presentation

1. Length: 10 minutes with 5 minutes for discussion
2. No more than 10 slides showing the most important information
3. Introduces organism and amino acid pathway
4. Focus on conclusions and supporting evidence
5. Demonstrate mastery of your project through answers to questions

Note: Different members can contribute to this project in different ways depending on their skills and abilities. This means that the oral presentation can be made by one or more of the group members at the group's discretion. Play to your group's strengths in all aspects of this project.