

Rubric for Reviewing Final Lab Report  
CH499

Name: \_\_\_\_\_

Abstract

| Element  | Poor | Fair | Great | Comments |
|--|------|------|-------|----------|
| <b>Topic:</b> Brief introduction to the topic as well as includes a reason for the study.  | 1    | 2    | 3     |          |
| <b>Problem:</b> What problem does this work attempt to solve? What is the main thesis?   | 1    | 2    | 3     |          |
| <b>Methodology:</b> Brief description of experimentation used.   | 1    | 2    | 3     |          |
| <b>Results:</b> Brief summarization of results found in the study  | 1    | 2    | 3     |          |
| <b>Implications/Conclusions:</b> What changes should be implemented as a result of this work? How does this work add to the body of knowledge of this topic? | 1    | 2    | 3     |          |
| <b>Language/Grammar:</b> Is the language the author uses clear and concise and is proper grammar and syntax used.  | 1    | 2    | 3     |          |
| <b>Word Count:</b> Abstracts should be short and concise, no longer than 150 words.  |      |      | 1     |          |
| <b>Key Words:</b> A list of key words or terms that enables work to be found using a search engine or database.  |      |      | 1     |          |

Total Score: \_\_\_\_\_/20

Reviewed by: \_\_\_\_\_

Resources for further guidance

<http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWsections.html>

<https://facultystaff.richmond.edu/~ggilfoyl/intermediate/writing.pdf>

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Introduction

| Element   | Poor | Fair | Great | Comments |
|---|------|------|-------|----------|
| <b>Topic:</b> What is being studied?  | 1    | 2    | 3     |          |
| <b>History of topic:</b> What is already known about this topic?  | 1    | 2    | 3     |          |
| <b>Significance of topic:</b> Why is this important? Why should the reader care?                                  | 1    | 2    | 3     |          |
| <b>Hypothesis:</b> What question will this study answer?  | 1    | 2    | 3     |          |
| <b>Implications:</b> How will this study advance our knowledge of this topic?                                     | 1    | 2    | 3     |          |
| <b>Language/Grammar:</b> Is the language the author uses clear and concise and is proper grammar and syntax used? | 1    | 2    | 3     |          |
| <b>Structure:</b> Does the information start out generalized and become more specific?                            |      |      | 1     |          |
| <b>Citations:</b> Are previous studies properly cited?  |      |      | 1     |          |

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Methods/Materials

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|---|------|------|-------|----------|
| <b>Subject:</b> What organism/molecule is being analyzed? Was it synthesized in lab and if so how or was it purchased and from where? | 1    | 2    | 3     |          |
| <b>Reagents:</b> What other reagents, chemicals are being used - aka- your ligand? Vendor? Purity?                                    | 1    | 2    | 3     |          |
| <b>Experiment:</b> How was the experiment structured and performed? What controls were used? What will the experiments tell us?       | 1    | 2    | 3     |          |
| <b>Collecting Data:</b> How were experiments carried out? What were the parameters?   | 1    | 2    | 3     |          |
| <b>Data analysis:</b> How was the data analyzed, what software was used?  | 1    | 2    | 3     |          |
| <b>Language/Grammar:</b> Is the language the author uses clear and concise and is proper grammar and syntax used?                     | 1    | 2    | 3     |          |
| <b>Structure:</b> Are the methods clearly understood? Could you repeat the experiments if given only this paper?                      |      |      | 1     |          |
| <b>Citations:</b> Are previous studies properly cited?  |      |      | 1     |          |

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Results

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|---|------|------|-------|----------|
| <b>Findings:</b> What are the results of each experiment? Are results reported and not discussed?                 | 1    | 2    | 3     |          |
| <b>Calculations</b> Are any necessary calculations performed correctly and explained?                             | 1    | 2    | 3     |          |
| <b>Statistics:</b> Have the results been shown to have significance based on statistical analysis?                | 1    | 2    | 3     |          |
| <b>Tables:</b> Are tables properly used and formatted correctly?  | 1    | 2    | 3     |          |
| <b>Figures:</b> Are figures properly used and formatted correctly?  | 1    | 2    | 3     |          |
| <b>Language/Grammar:</b> Is the language the author uses clear and concise and is proper grammar and syntax used? | 1    | 2    | 3     |          |
| <b>Structure:</b> Are subheadings used? Do tables and figures help logically illustrate the findings as a whole?  |      |      | 1     |          |
| <b>Citations:</b> Are previous studies properly cited?  |      |      | 1     |          |

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Discussion

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|---|------|------|-------|----------|
| <b>Interpret Results:</b> What are the implications and significance of the results? Can generalizations be drawn from the results? | 1    | 2    | 3     |          |
| <b>Limitations:</b> What limitations were found in the experimentation? Are there questions left unanswered?                        | 1    | 2    | 3     |          |
| <b>Compare:</b> How do results from these experiments compare with previous work?   | 1    | 2    | 3     |          |
| <b>Alternatives:</b> Have new questions arisen due to findings? Were there surprises? Propose alternative hypotheses if necessary.  | 1    | 2    | 3     |          |
| <b>Future Study:</b> Are there suggestions (with supporting reasons) for future studies?  | 1    | 2    | 3     |          |
| <b>Language/Grammar:</b> Is the language the author uses clear and concise and is proper grammar and syntax used?                   | 1    | 2    | 3     |          |
| <b>Structure:</b> Are the methods clearly understood? Could you repeat the experiments if given only this paper?                    |      |      | 1     |          |
| <b>Citations:</b> Are previous studies properly cited?  |      |      | 1     |          |

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