Mechanics (4 points)
- Title page: concise and informative title, author names and affiliations – including postal address and email address. (-1 point if missing)
- 12-15 pages not including figures and graphs
- 12 point Times New Roman font, double spaced
- Proper grammar (-2 points for mistakes more than 4)
- Article divided into clearly defined and numbered sections and subsections

Safe Assign match
Suggestions:

Total points /4

Abstract (2 points)
- 200 words
- Introduction sentence(s)
- Methods sentence(s)
- Results sentence(s)
- Conclusion sentence(s)

Suggestions:

Total points /2

Introduction (5 points)
State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.
- Minimum 2 pages
- Basic information available about this topic. (-3 for inaccurate information)
  - Description of resting membrane potential
  - Description of Nernst equation
  - Description neuromuscular junction
  - Description of muscle contraction
  - Description of how glycerinated rabbit muscle is different than in vivo
- Proper in text citations that match the reference section

Predictions
Suggestions:

Total points /5

Methods (4 points)
Provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference: only relevant modifications should be described.
- Minimum 1 page
- Original photographs (-1 for pictures copied from protocol)
- Written explanation of statistical calculations (-1 point is missing)

Suggestions:

Total points /4

Results (3 points)
Results should be clear and concise.
- Data/Observations (-1 results not presented verbally)
- Claims / Interpretation
- Evidence / Statistics
Lab 6: linear regression test and reported p value
Lab 7: ANOVA reported on % change means
Lab 7: t-test reported on means with and without serotonin
Class Data with average & standard errors (-1 for reporting raw data)
Reference to figures, tables, and graphs in text

Suggestions:

Discussion (3 points)
This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

Answered questions found at the end of the lab.

New understanding
Connections made between the lab activity and the lecture concept (-3 if inaccurate information)

Conclusion Paragraph (2 points)
The main conclusions of the study may be presented in a short Conclusions section, which may stand-alone or form a subsection of a Discussion or Results and Discussion section.

Tables and Graphs (4 points)

Proper labels Titles, independent and dependent variables, legend.
Proper formatted title / caption- not on figure itself
Independent and dependent variables labeled with units
Legend
Error bars reported on averages
Correct type of graph used for reporting data
Individual group data reported on membrane potential graph
Bar graph with error bars for rabbit muscle data
Figure of muscle histology
Separate section for Tables and Graphs

References (3 points)
5 sources minimum
Proper format:


Suggestions:

Grade /30