

Section	Goal	Evaluation		
Title	To give content information to reader	Engaging	Appropriate	Not enough/too much content or information
Abstract	To concisely summarize the analysis question, general methods, major findings, and implications to current knowledge.	<ul style="list-style-type: none"> - Key information is presented completely and in a clear, concise way. - Logical organization. - Understandable by readers with any background. 	<ul style="list-style-type: none"> - Sufficient information is presented. - May benefit from some reorganization. - Understandable by readers with some knowledge of the field. 	<ul style="list-style-type: none"> - Some key information is missing or irrelevant information is included. - Structure is hard to follow - Incorrect information is used.
Introduction	To identify central analysis questions, and appropriate background information. To present a plausible hypothesis and potential implications of results.	<ul style="list-style-type: none"> - Relevant background information is presented in a balanced and engaging way. - Analysis goals and predictions are clearly specified. - Analysis question flows consistently from background information presented. - Potential implications of results explain the importance of the analysis. 	<ul style="list-style-type: none"> - Background information is presented but could benefit from reorganization or reframing. - Analysis goals and predictions are included. - Analysis question's connection to background understandable by readers with prior knowledge of the field. - Implications of analysis are not clearly explained. 	<ul style="list-style-type: none"> - Background information is too general or too specific or inaccurate. - Analysis goals and predictions are not included or are incorrectly specified. - Connection between analysis question and background not explained. - Implications of analysis are not discussed.
Methods	To describe analysis procedures correctly, clearly, and succinctly.	<ul style="list-style-type: none"> - Methods description sufficient for someone else to reproduce the analysis. 	<ul style="list-style-type: none"> - Methods description allows someone with prior knowledge of the field to reproduce the analysis. 	<ul style="list-style-type: none"> - Methods description is not sufficient for someone to reproduce analysis.
Results	To present data using text AND figures/tables.	<ul style="list-style-type: none"> - Major findings presented in a clear and logical progression. - Figures are formatted to ensure easy interpretation. - Figure legends facilitate interpretation of results without reading main text. 	<ul style="list-style-type: none"> - Major findings presented but could benefit from reorganization to aid in understanding. - Figures present results but could be reformatted to enhance clarity and interpretability. - Figure legends omit some information required for adequate interpretation of results. 	<ul style="list-style-type: none"> - Some major findings omitted or information more appropriate for other sections included. - Figures present results in a way that is difficult to read or interpret. - Figure legends are missing or include irrelevant information
Conclusion and Discussion	To evaluate meaning and importance of major findings	<ul style="list-style-type: none"> - Conclusions follow logically from presented results. - Unexpected results, inconsistencies, and limitations of analysis discussed clearly. 	<ul style="list-style-type: none"> - Appropriate conclusions drawn from results but could benefit from clearer explanation. - Unexpected results, inconsistencies, and limitations not discussed thoroughly. 	<ul style="list-style-type: none"> - Conclusions do not follow clearly from presented results. - Unexpected results, inconsistencies, or limitations are not discussed.

		<ul style="list-style-type: none"> - Connection to background context explained clearly. - Appropriate future directions discussed and follow logically from results and conclusions. 	<ul style="list-style-type: none"> - Connection to background context not explained clearly. - Future directions do not follow clearly from presented results and conclusions. 	<ul style="list-style-type: none"> - Results and conclusions are not linked back to general context of analysis. - Future directions are not discussed.
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Other components that can be included in evaluation

- References

Adapted from MIT OCW 20.109 (spring 2010)

<https://ocw.mit.edu/courses/biological-engineering/20-109-laboratory-fundamentals-in-biological-engineering-spring-2010/assignments/guidelines-for-writing-up-your-research/#Evaluation>