

Review of XXX

October 7, 2019

Five Review Elements:

The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to:
 - (a) advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
 - (b) benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or institution to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home institution or through collaborations) to carry out the proposed activities?

Rating:

Make a subjective call from the following list:

- Poor
- **Fair**
- Good
- Very Good
- Excellent

Summary

Intellectual Merit

The intellectual merit comes from the improvement in sequence alignment suites. The heuristic method for this improvement is explained though a deeper explanation would help.

Broader Impacts

The impacts are largely focused on gene annotation.

Summary Statement

The research seems doable with a clear goal. The proposal needs to be expanded with more background information and perhaps a better explanation of the impacts of the work.