

Reviewer Report

Title: GigaSOM.jl: High-performance clustering and visualization of huge cytometry datasets

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Reviewer name: Nima Agheepour

Reviewer Comments to Author:

High-throughput single cell analysis has revolutionized our ability to profile the immune system. Data analysis for these large datasets, however, has been lagging. Self-organizing maps have been broadly used to analyze such datasets. Kratochvíl et al. report the development of a fast and scalable pipeline for analysis of such datasets. The results are validated against manual analysis.

One area of improvement is to better clarify the methodological developments presented here vs. those already adopted by the field. This has already been done to a good degree but could be made more explicit, particularly with regards to Batch Training of SOMs, Map Reduce, etc.

The software package is of high quality. Julia is an exciting and appropriate choice for this project, which will help promote this up and coming language within the single-cell community.

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