

Reviewer Report

Title: LION/web: a web-based ontology enrichment tool for lipidomic data analysis

Version: Revision 1 **Date:** 3/26/2019

Reviewer name: Aleksander Andreyev

Reviewer Comments to Author:

This is a tremendously improved version of the manuscript. All critiques are adequately addressed, and the current revision is logical and detailed.

A couple of minor comments:

1. The use of colon in the linear regression terms (Suppl. Material #8) is very confusing given the fact that these terms are actually something opposite, i.e., products of corresponding predictors. This should be explicitly stated and the colon changed to something more appropriate.
2. For LION term describing fatty acids with 2 or more double bonds a conventional designation as PUFAs (polyunsaturated FA) should be mentioned; the same may be also applied to their monounsaturated and saturated counterparts.

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